SHARP

3-in-1 Efficiency & A3 MFP Performance
from a Compact A4 Colour Solution

ENERGY STAR

OSA
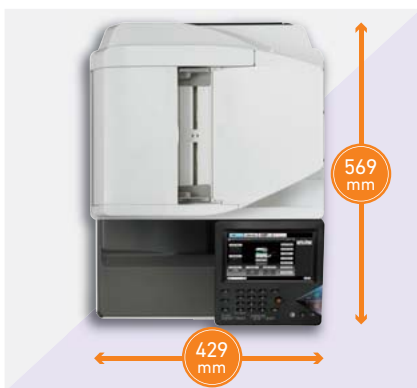Sharp Open Systems Architecture

COPY   NETWORK PRINT   NETWORK SCAN

Small Footprint, Big Performance

Despite boasting image quality, functions, solutions, and ease of use rivalling that of bigger, bulkier A3 MFPs, the space-saving MX-C301 is sized for convenience. This stylishly compact A4 MFP delivers copying, network printing, and full-colour network scanning with three-in-one, workflow-enhancing efficiency. In fact, this winning combination of high performance and streamlined design is what makes the versatile MX-C301 such an ideal document solution for businesses of all types and sizes.

USER FRIENDLINESS

Space-Saving Design

Measuring just 429 mm wide and 569 mm deep, the MX-C301 is a fit-anywhere solution that can deliver business-essential functions from atop a desk, counter, or file cabinet. With its pared-down footprint and sleek design, the MX-C301 is every bit as compact and convenient as it is functional.

7.0-Inch Colour Touchscreen LCD

The MX-C301 is equipped with a 7.0-inch WVGA touchscreen colour LCD that provides easy navigation of MFP functions and settings. The LCD also shows thumbnail displays and data file previews, raising the bar on user friendliness.

Tiltable Control Panel

The control panel can be tilted for easy viewing, even from a wheelchair. The tilt angle can be set anywhere from 13.5 degrees to 63.5 degrees.

Job Status Screen

The LCD displays a list of all printing and copying jobs, conveniently indicating job order and progress. And the **Priority Printing** function allows users to easily change the job order or delete jobs that are no longer needed—right from the LCD screen.

Thumbnail Display and Previews

Displaying thumbnails and up-close previews of Document Filing data files along with file names on the MX-C301's LCD makes searching for files easy and convenient. It can also prevent errors by allowing users to confirm scan settings and other such items before copying, scanning, or saving documents to the MFP's hard disk.

Thumbnails   Preview

Efficient Colour and B/W Output 📋🖨

The MX-C301 delivers a fast output of **30 ppm*** in full colour and in B/W. And the first copy comes out in just **6.3 seconds** in B/W and **7.4 seconds** in full colour to save valuable time when performing multiple short-run jobs. A warm-up time of just **18 seconds** brings added efficiency.
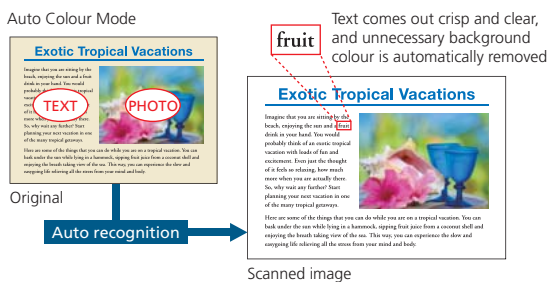
* A4 (8 $\frac{1}{2}$" x 11"), short-edge feeding

Superb Image Quality 📋🖨

Third-generation **Mycrostoner-HG3 (High Grade)** expands the colour reproducibility range for a more natural rendering of clear blue skies, emerald green oceans, and other colour images. And the smaller particle size of the toner and the carrier allows for reduced graininess and clear reproduction of fine lines, fine text, and halftone colours.

Easy, High-Quality Copying 📋

The MX-C301 comes standard with **Auto Colour Mode** to deliver high-quality automated copying. This function allows the MFP to make clear, easy-to-read copies from documents that contain not only text but also photos and maps. Here's how it works: **Auto Colour Selection** automatically determines whether a page is colour or B/W. The contents of each page are then analysed to distinguish between different components, such as photos and text, and the appropriate copy mode for that page is selected. Finally, Background Suppression automatically removes unnecessary background colour for clearer output.

Auto Colour Mode

Exotic Tropical Vacations

TEXT PHOTO

Original

Auto recognition

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

fruit

Exotic Tropical Vacations

Scanned image

RSPF and Built-In Duplex Module 📋🖨

The MX-C301 comes standard-equipped with a **50-sheet RSPF** (reversing single pass feeder) for efficient document feeding and a built-in stackless duplex module for **two-sided copying and printing** that effectively reduces paper costs and saves filing space. A **Business Card Copy** function on the RSPF lets the MX-C301 copy business cards in two layouts: one card per page and eight cards per page.

Business Card Copy

Aaron Stapley
Residential Architect

Business card

One card per page

Eight cards per page

Proof Copying or Printing 📋🖨

To prevent the waste of large-volume misprints, the MX-C301 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.

Direct Printing*1 🖨

The MX-C301 can print PDF, TIFF, JPEG, or XPS*2 files without using the printer driver. And there's a USB port to the side of the 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.
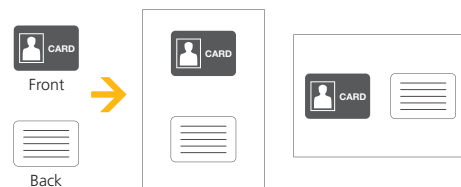
*1: Direct printing may not support all PDF, TIFF, JPEG, and XPS formats.
*2: Direct XPS printing requires optional MX-PUX1 and 2GB of extra memory.

ID Card Copy 📋

The MX-C301 has a dedicated on-screen button for easy copying of both sides of a card (ID cards, credit cards, etc.) onto a single page.
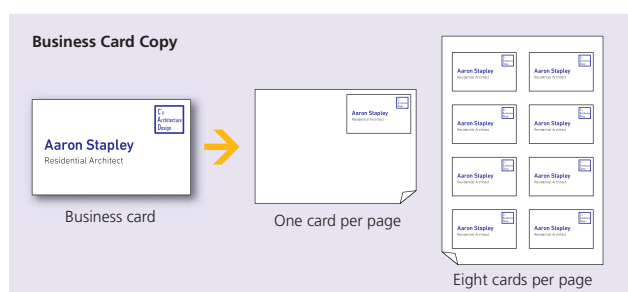
CARD
Front

Back

CARD

CARD

Other Key Features

- Total paper capacity of **800 sheets** 🖨
- Accommodates heavy paper up to **220 g/m²** 📋
- **Watermark** prints a user-selected watermark, such as "Urgent," on each page to indicate the status of the document
- **Multi-Shot** copying and **N-up** printing
- **Pamphlet Style** copying/printing

- Works with the latest and most commonly used operating systems and network protocols, including **IPv6** 🖨
- Supports, as standard, **PCL 6** and **PostScript® 3™**
- **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.

- Image editing functions: **Photo Repeat**, **Mirror Image**, **XY Zoom**, **B/W Reverse**, and more 📋
- **Card Shot** enables easy copying—in the user-selected size—of both sides of a card 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 recognises when mixed-size documents of the same width are fed through the RSPF and chooses the appropriate paper

SCANNING

Full-Colour Network Scanning

The MX-C301 works as a **full-colour network scanner** and supports TIFF, PDF, PDF/A, encrypted PDF, JPEG, and XPS file formats. Converting any type of paper-based document 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.

High-Quality Colour Scanning

Auto Colour Mode (see page 2) comes in handy for scanning as well, allowing the MX-C301 to perform high-quality automated scanning with ease. And five levels of sharpness and contrast control enable finely tuned adjustments for optimal image quality.
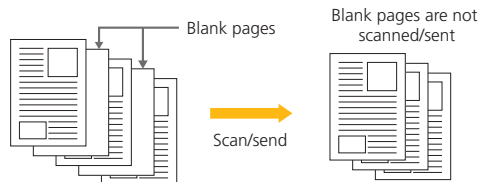
Quick Scanning

For both colour and B/W documents, the MX-C301 carries out scanning at **35 opm*** (originals per minute) and can complete large scan jobs with ease and efficiency.
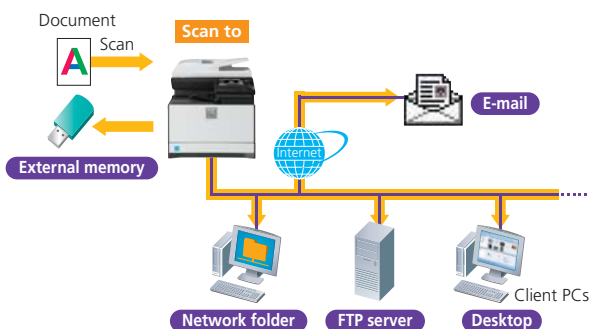
* One-sided scanning

Skip Blank Page Function

When scanning and sending a multi-page document, the MX-C301 automatically recognises and skips over any pages without content, reducing both data size and transmission time.

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 (SMB)** sends files to a shared folder on a networked Windows-based PC. And **Scan to External Memory Device** scans documents directly to USB memory devices.

Business Card Scanning

The MX-C301 can easily scan business cards* with its RSPF and can be used with commercially available business card scan software to create business card databases.
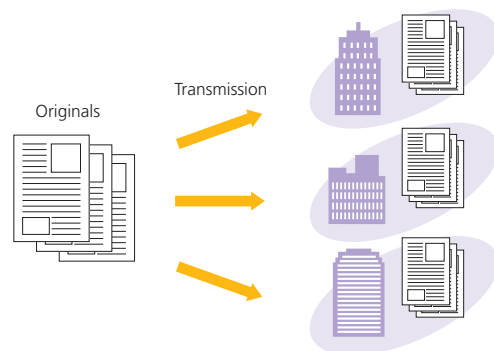
* One-sided scanning

LDAP Support

Built-in LDAP (lightweight directory access protocol) support eliminates the need to enter or register full addresses. Entering just the first few letters of a recipient's name prompts the MX-C301 to display a list of possible matches from your company's LDAP server. Selected addresses can be stored to the MX-C301's address book.
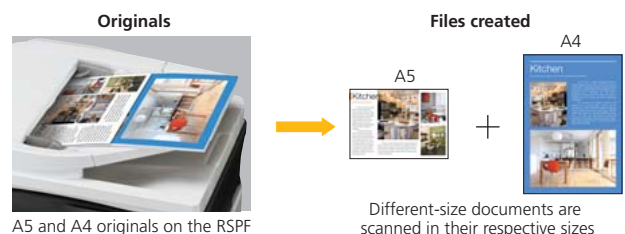

Other Key Features

- **One-touch auto dial keys** register up to **1,000** numbers for frequently used destinations
- **Program 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
- **Broadcast transmission** to up to 500 destinations

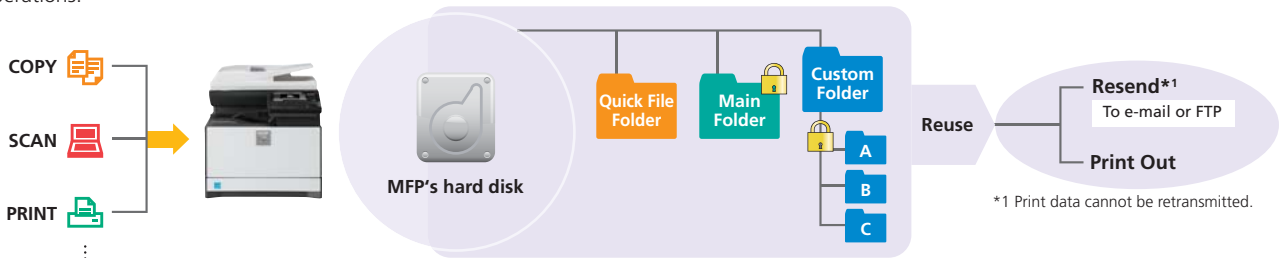- **Mixed size original scanning** automatically recognises when mixed-size documents of the same width are fed through the RSPF

Originals

Files created

A5 and A4 originals on the RSPF

Different-size documents are scanned in their respective sizes

Document Management on the Hard Disk

You can save processed job data in designated folders on the MX-C301'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

MFP's hard disk

Quick File Folder

Main Folder

Custom Folder

A
B
C

Reuse

Resend*[1]
To e-mail or FTP

Print Out

*1 Print data cannot be retransmitted.

Quick Filing

Up to **10,000 pages** or 1,000 files*[2] that have been copied, printed, or scanned 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*[2] that have been copied, printed, or scanned 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.

*2: Storage capacity will vary depending on the type of document and the scan settings.

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.

Thumbnail displays

Web access screen

Easy Sharing of Application Files

To facilitate file sharing across the office network, the MX-C301 provides 50GB 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.
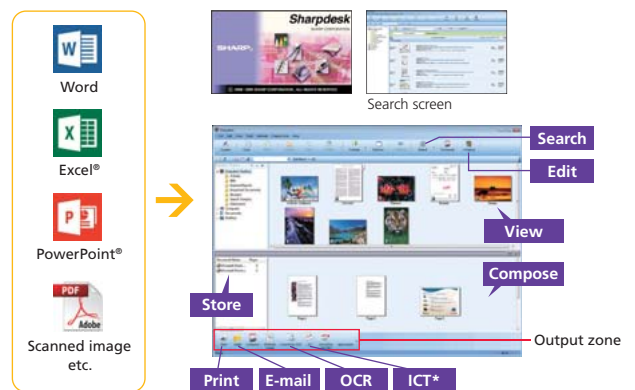
Note: Sharp recommends backing up data saved to the MFP's hard disk.

File creator

Other users

Document is saved to MFP in original file format

Saved

Stored on MFP's hard disk

Retrieve

User retrieves file from MFP

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®

Scanned image etc.

Search screen

Search

Edit

View

Compose

Store

Output zone

Print   E-mail   OCR   ICT*

* 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 MFP—without complicated settings. Scanned documents can be quickly and easily printed, filed, previewed, shared, and stored to save time and improve document workflow. And 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.
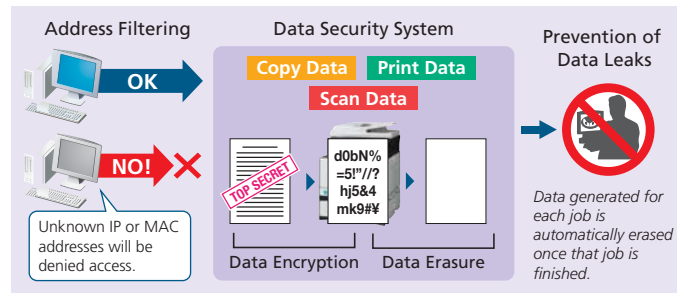
Note: Requires optional MX-AMX2.

Industry-Leading 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-C301 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 MFPs on your office network. Only PCs that have either their IP address or MAC (media access control) address registered are allowed to use the MFPs. Attempted access from an unknown IP or MAC address will be denied, preventing unauthorised use. The MX-C301 also supports the **IEEE 802.1X** standard for port-based network access control, which blocks all access from unauthorised devices.

Address Filtering

OK

NO!

Unknown IP or MAC addresses will be denied access.

Data Security System

Copy Data   Print Data

Scan Data

TOP SECRET

d0bN%
=5!"//?
hj5&4
mk9#¥

Data Encryption   Data Erasure

Prevention of Data Leaks

Data generated for each job is automatically erased once that job is finished.

Data Encryption and Overwriting

Digital copier/printers and MFPs retain large amounts of data generated from copy/print/scan jobs in internal storage. To safeguard confidential data from unauthorised access, standard-equipped security features on the MX-C301 automatically **encrypt** job data prior to saving it to internal storage. Once a job is finished, that encrypted data is **erased** via up to seven automatic overwrites. **Protection** of administrator/file/folder passwords brings further peace of mind.

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

User Authentication

The MX-C301 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. And the MX-C301 works with an **external Active Directory server** to extend user authentication to multiple MFPs and a greater number of users.

User authentication

Encrypted PDF with Password Protection

To prevent unauthorised viewing of confidential data, the MX-C301 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).
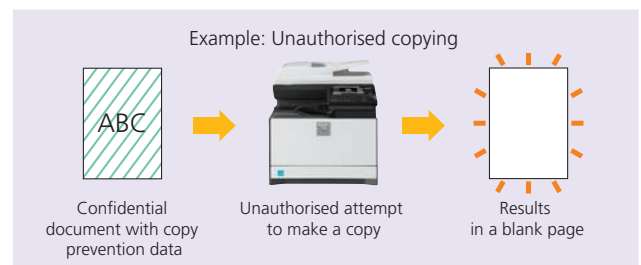
Scan to Me Function

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.

IPsec Support

The MX-C301 supports **IPsec**, 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-C301's initialisation function allows confidential information to be erased at the administrator's discretion via the MFP's system setting. Initialising an MFP 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.

Document Control Function (option)

Document Control prevents unauthorised copying, scanning, 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.
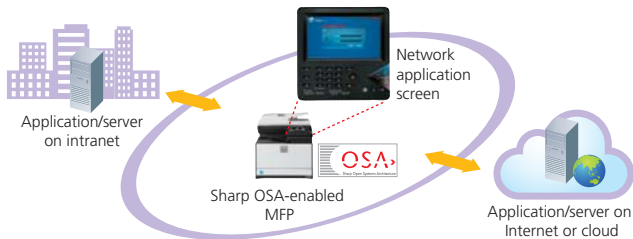
Note: Requires optional Data Security Kit. May not work for certain types of documents or paper.

Example: Unauthorised copying

ABC

Confidential document with copy prevention data

Unauthorised attempt to make a copy

Results in a blank page

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. The latest version provides support for both Internet- and intranet-based applications. And since Sharp OSA utilises industry-standard network protocols, the MX-C301 can easily integrate with document management systems, enterprise resource planning software, workflow applications, and more. Sharp OSA brings other benefits as well, such as reducing the costs associated with system implementation and management and enabling data sharing across company branch offices or subsidiaries.

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

Sharp OSA Advantages at a Glance
- Software is installed on the server—not the MFP—for optimal MFP performance
- Allows for centralised management and maintenance
- For authorisation and accounting applications, user profiles are accessible from any MFP a user logs in to
- Easy-to-program Web services and Microsoft®.NET reduce the time and cost involved in developing applications

Sharpdesk Mobile*   🖥 🖨

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

* Availability varies by country/region. For details, see the Sharpdesk Mobile support website: http://sharp-world.com/products/copier/docu_solutions/mobile/sharpdesk_mobile/

Application/server on intranet

Network application screen

Sharp OSA-enabled MFP

Application/server on Internet or cloud

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.

Network Utility Software

Sharp Remote Device Manager* (SRDM) gives administrators centralised control of their networked MFPs through a standard Web browser, making device cloning and other operations easier and more accessible.

* Contact a Sharp customer representative for availability and other details.

Remote Diagnosis

The MX-C301 can be monitored remotely through a Web browser, letting administrators handle tasks before they become problems. And when action or maintenance is required, the **E-Mail Status and Alert** function notifies administrators via timely e-mail alerts.

Device Cloning

Machine settings can be copied conveniently to another MX-C301 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.
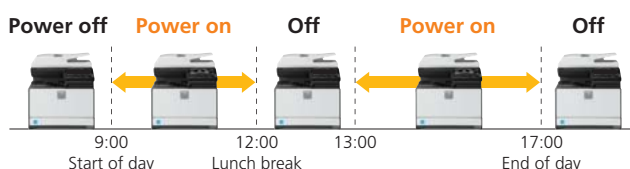
Remote Operation

The Remote Operation function lets you display the MFP'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 MFP user through necessary procedures and allows remote MFP operation from a wheelchair.

* Requires VNC application.

ENVIRONMENT-FRIENDLY

Outstanding Energy Efficiency

- Based on prior usage patterns, the MX-C301 automatically determines the optimal length of time to let elapse before going into **auto power shut-off mode**, helping reduce overall power consumption. And pressing the **power save key** after a job is finished immediately puts the MFP into auto power shut-off mode for further cutbacks on running costs.
- **Power ON/OFF Schedule** function automatically turns the MX-C301 on or off according to time schedules set by the administrator.

- **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.
- For further energy savings, energy-efficient **LED lamps** are employed in the scan unit in place of conventional xenon lamps. An ASIC (application-specific integrated circuit) also helps the MX-C301 deliver excellent performance and energy efficiency. The time interval after which the MFP will go into auto power shut-off mode can be temporarily extended via the control panel.

Power off	Power on	Off	Power on	Off

9:00 Start of day   12:00 Lunch break   13:00   17:00 End of day

LED lamps

SPECIFICATIONS (tentative)

General

Type	Desktop
Engine speed (colour & B/W)	Max. 30 ppm (A4, 8 $\frac{1}{2}$" x 11", short-edge feeding)
Paper size	Max. A4 (8 $\frac{1}{2}$" x 14"), min. A6 (5 $\frac{1}{2}$" x 8 $\frac{1}{2}$")
Paper capacity (80 g/m²)	Standard: 300 sheets (250-sheet tray and 50-sheet multi-bypass tray) Maximum: 800 sheets
Paper weight	Tray: 60 g/m² to 105 g/m² (16 lbs bond to 28 lbs bond) Multi-bypass tray: 55 g/m² to 220 g/m² (13 lbs bond to 80 lbs cover)
Warm-up time*1	18 sec.
Memory	[Standard] Copy/print (shared): 3GB 250GB HDD*2 [Option] Print: 2GB
Power requirements	Rated local AC voltage ±10%, 50/60 Hz
Power consumption (max.)	1.3 kW (220 to 240V), 1.25 kW (100 to 127V)
Dimensions (W x D x H)	429 x 569 x 474 mm (16 $\frac{57}{64}$" x 22 $\frac{13}{32}$" x 18 $\frac{21}{32}$")
Weight (approx.)	33 kg (72.8 lbs)

Copier

Original paper size	Max. A4 (8 $\frac{1}{2}$" x 14")
First copy time*3	Full colour: 7.4 sec. B/W: 6.3 sec.
Continuous copy	Max. 999 copies
Resolution	Scan*4: 600 x 600 dpi, 600 x 300 dpi Print: 600 x 600 dpi, 9,600 (equivalent) x 600 dpi
Gradation	Equivalent to 256 levels
Zoom range	25% to 400% (25% to 200% using RSPF) in 1% increments
Preset copy ratios	Metric: 8 ratios (4R/4E), inch: 5 ratios (3R/2E)

Document Filing

Document filing capacity*5	Main and custom folders: 20,000 pages or 3,000 files Quick file folder: 10,000 pages or 1,000 files
Stored jobs	Copy, print, scan
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	Windows Server® 2003, Windows Server® 2003 R2, Windows Server® 2008, Windows Server® 2008 R2, Windows Server® 2012, Windows Server® 2012 R2, Windows Vista®, Windows® 7, Windows® 8, Windows® 8.1, Mac OS X 10.4, 10.5, 10.6, 10.7, 10.8, 10.9
Network protocols	TCP/IP (IPv4, IPv6), IPX/SPX, EtherTalk (AppleTalk)
Printing protocols*6	LPR, Raw TCP (port 9100), POP3 (e-mail printing), HTTP, IPP, FTP for downloading print files, EtherTalk printing
PDL (emulation)	Standard: PCL 6 emulation, PostScript® 3™ emulation Option: XPS*7
Available fonts	80 fonts for PCL, 136 fonts for PostScript 3 emulation

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
File formats	TIFF, PDF, PDF/A, encrypted PDF, JPEG*8, XPS
Scanner utility	Sharpdesk
Scan destinations	Scan to e-mail/desktop/FTP server/ network folder (SMB)/USB memory

*1: At rated voltage, 23°C (73.4°F). May vary depending on operating conditions and environment.
*2: HDD capacity depends on procurement and sourcing status.
*3: Short-edge feeding of A4 (8 $\frac{1}{2}$" x 11") sheets from paper tray, using document glass, without Auto Colour Selection and Auto Color mode, MFP in fully ready condition. May vary depending on operating conditions and environment.
*4: Default resolution is 600 x 600 dpi in colour when using document glass or RSPF, 600 x 600 dpi in B/W when using document glass, and 600 x 300 dpi in B/W when using RSPF.
*5: Storage capacity will vary depending on the type of document and the scan settings.
*6: IPv6 is supported only by LPR printing protocol.
*7: XPS requires optional MX-PUX1 and 2GB memory.
*8: Colour only.

- Design and specifications are subject to change without prior notice.
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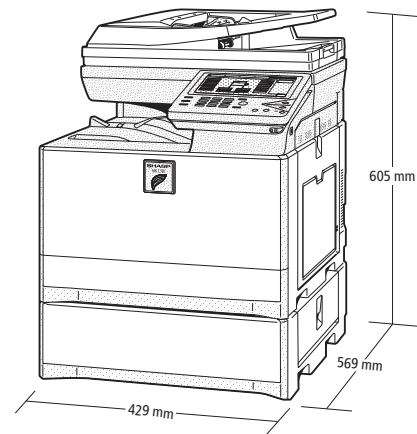
SYSTEM CONFIGURATION

RSPF

MX-PUX1 XPS Expansion Kit

MX-PF10 Barcode Font 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/1HA Sharp OSA Network Scanner Tool 10/50/100-License Kit

MX-AMX1 Application Integration Module

MX-AMX2 Application Communication Module

MX-AMX3 External Account Module

MX-FR46U Data Security Kit

MX-CS11 500-Sheet Paper Feed Unit

605 mm

569 mm

429 mm

Certain options may not be available in some areas.

Shown with option.

SHARP