# SHARP

**MX-M200D/MX-M160D**
Digital Multifunctional System

**Versatile, compact multifunction systems** for every small office

# Powerful, productive, affordable:
## what every workgroup needs

Double-sided printing and copying, colour scanning, and optional faxing and network printing: the new MX-M200D and MX-M160D A3 black and white multifunction systems pack it all into a surprisingly small package.

In fact, everything about these new machines was designed specifically for the small modern offices and workgroups where space - and budgets - have to work that little bit harder.

**Everything for the office, all in one place**
Depending on the model you can print 20 or 16 pages per minute and, thanks to Sharp Printer Language with Compression (SPLC), print speeds are kept to a maximum even on complex jobs.

Copying is just as fast and everyone in the team will appreciate advanced features such as the convenient image editing functions and the handy E-Sort feature, for creating multiple sets of sorted documents without the need for a bulky page collator. A reversing single pass feeder can be specified for easier double-sided scanning and copying.

A3 colour scanning capability is included as standard and, if you choose the network scanning option, you can scan documents to your PC, FTP server, or directly to an email address. Add the optional fax kit and you have a truly versatile, yet compact and affordable, all-round office multifunction system that's ideal for your everyday document needs.

**Contemporary thinking for the modern office**
At Sharp, we believe that modern technology should be easy on the eye. So we've given these remarkable new machines elegant curves and an attractive exterior that will complement even the most contemporary office environment.

And because we know that you care about the environment, our products are designed with this in mind, making sure that the MX-M200D and MX-M160D are fully compliant with the latest Energy Star Version 1.1 specifications.

# MX-M200D/MX-M160D **- Key Features**

### Productive Copying

- Quick copy speed of 20/16 cpm and fast 7.2 seconds first copy time
- Scan Once/Print Many function stores a scanned original into memory to quickly produce up to 999 copies of each page
- Electronic Sorting automatically collates multiple sets of copies in page order without the aid of a sorter
- Built-in efficient, reliable stackless duplex module
- Optional 40-sheet Single Pass Feeder (SPF) and Reversing SPF (RSPF)
- Standard 600-sheet paper capacity (MX-M200D) and 350-sheet paper capacity (MX-M160D), expandable to 1,100 sheets
- Versatile editing functions include rotation copy, Card Shot, N-in-1 copy

### Performance Printing

- Standard Sharp Printer Language with Compression (SPLC) speeds up the data transfer time and printing process
- RIP Once/Print Many function for efficient printing of maximum 20/16 ppm
- Duplex printing capability
- Optional PCL 6/5e and PostScript 3 emulation
- Standard USB connectivity (USB 2.0 port)
- Upgradeable to network printing; supports most popular network OS and protocols
- Printer Administration Utility and Printer Status Monitor (option)
- IP/MAC address filtering prevents unauthorised access (option)
- Convenient printing functions include N-up, fit-to-page, watermarks, PDF/TIFF direct printing (option)
- Job Offset stacks each print job slightly shifted apart
- Job Separator to separate print jobs from copy/fax jobs (option)

### Powerful Colour Scanning

- Full-colour A3 scanning at 600 x 600 dpi resolution
- Sharpdesk™ for total desktop document management and Button Manager for sending scanned images directly to PC applications
- Upgradeable for network colour scanning to scan to e-mail/desktop/FTP server
- LDAP (lightweight directory access protocol) compatibility allows easy browsing of e-mail addresses (option)

### Speedy Faxing (option)

- Super G3 (33.6 Kbps modem) and JBIG compression for fast transmission
- Quick on-line transmission drastically shortens waiting time
- Duplex fax transmission and reception
- Rapid dials and group dials (50 total), 300 speed dials

### User- and Environmentally-Friendly Design

- Environmentally conscious with energy-efficient design
- Certified for Energy Star
- Duplex capability saves resources
- Easy for everyone to use with universal design concept and 5-line LCD operation panel
- Digital Auto Exposure Control and Text/Photo mode ensure superb image quality

# High-performance printing

With fast outputs of 20ppm and 16ppm respectively, the MX-M200D and MX-M160D provide outstanding printing performance. Accelerating the production of multiple prints, the RIP Once/Print many function minimises human intervention and eliminates additional processing. Equipped with features for network printing options, and secure network access (IP/MAC address filtering), the MX-M200D and MX-M160D deliver speed and versatility.

### Secure Network Printing

The optional MX-NB10 Network Printing/Scanning Expansion Kit provides highly secure operation by restricting access to the MX-M200D and MX-M160D on your office network. Only PCs that have either their IP address or MAC (media access control) address registered are allowed access, preventing unauthorised use.
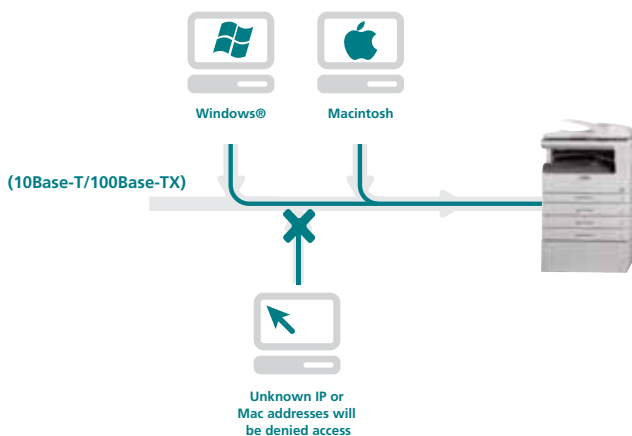
### At a glance

- Standard **SPLC** (Sharp Printer Language with Compression) for speedy data transfer and printing.
- Standard **duplex printing** capability.
- **Job Offset** stacks each print job slightly shifted apart for easy retrieval and **Job Separator**[1] prevents print jobs from getting mixed with copy/fax jobs.
- **Powerful network printing**[2] supports the most commonly used network operating systems and protocols.
- **PDF/TIFF direct print**[2] – saves valuable time by printing PDF and TIFF files without using the printer driver, enabling direct printing from either a Web page or an e-mail attachment.
- **PCL5e and PCL6** printer language emulation[2].
- **PostScript 3** is available[3] for compatibility with more fonts and better graphics handling.
- **Printer Administration Utility** for easy network management and **Printer Status Monitor** for remote printer status monitoring[2].
- **Convenient printing functions** – N-up, fit-to-page, watermarks, and more.

[1] Optional MX-TR10 required.
[2] Optional MX-NB10 required. PDF direct printing also requires MX-PK10.
[3] Optional MX-PK10 required.

Windows®  Macintosh

(10Base-T/100Base-TX)

Unknown IP or
Mac addresses will
be denied access

# Productive **copying**

Bringing you superb efficiency, the MX-M200D and MX-M160D produce a fast 20cpm or 16cpm copy speed and quick first copy time of 7.2 seconds. The performance of built-in duplexing not only minimises paper usage, but boosts productivity even further when used with the optional RSPF (reversing single pass feeder). Combined with an exciting range of image editing functions, the MX-M200D and MX-M160D supply a whole new level of convenience.

### Duplex Copying

With their built-in duplex module, the MX-M200D and MX-M160D can automatically produce two-sided copies. Duplexing is even more productive when used together with the optional RSPF for one- or two-sided originals or with the optional SPF for one-sided originals.
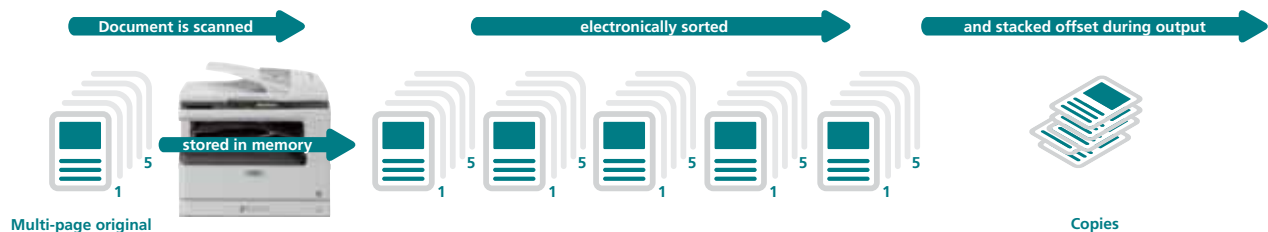
### Card Shot Copy/Scan

This function enables one-touch scanning and copying of both sides of a card (credit cards, ID cards, etc.) onto a single page. Note: From platen glass only

**At a glance**

- *Scan Once/Print Many* function and *electronic sorting* for highly productive copying.
- *Up to 999 copies* can be made from memory.
- Optional *RSPF or SPF* makes scan jobs quick and easy.
- *Increased paper capacity* holds 350 sheets standard (MX-M160D), 600 sheets standard (MX-M200D), expandable to 1,100 sheets on both models.
- *Auto tray switching* reduces interruptions by automatically switching to a different tray when the first becomes empty.
- *Digital auto exposure control, Text mode, and Photo mode* ensure optimum copy quality.
- *Convenient image editing functions* – multi-shot (4-in-1, 2-in-1), rotation copy, dual page copy, and more.
- *Automatic paper/magnification selection.*

**Scan Once/Print Many and Electronic Sorting**

Document is scanned

electronically sorted

and stacked offset during output

stored in memory

Multi-page original

Copies

# Powerful colour scanning and efficient faxing

As a powerful, full-colour scanner, the MX-M200D and MX-M160D can convert any type of paper-based document, up to A3 in size, into an editable digital file as easily as making a copy. The optional 40-sheet RSPF makes it possible to scan even double-sided documents instantly. With available upgrades for network scanning, your entire office can share fully editable files that can be used in common office applications, printed, or distributed by e-mail.

**Sharpdesk™ — Document Management on Your PC**

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 Microsoft Word. It allows you to organise, edit, search, and distribute your documents, all with simple drag-and-drop operation.

You can extend the functionality of the new MFPs even further with the optional MX-FX10 Fax Expansion Kit. Combining 33,600 bps Super G3 speed with the ease of on-line transmission, the MX-FX10 boosts the efficiency of your MX-M200D or MX-M160D, sending documents in much less time than with conventional memory transmission.

## At a glance

### Scanning

- **Full-colour A3 scanning** in 600 x 600 dpi.
- Compatible with **TWAIN-compliant** applications (pull scan).
- **Useful utility software**
  – Sharpdesk™ document management software.
  – Button Manager sends scanned images directly to PC applications (push scan).
- **Network scan*[1]** to e-mail, desktop, or FTP server.
- **Lightweight Directory Access Protocol*[1]** (LDAP) allows easy browsing of e-mail addresses for rapid distribution of scanned documents.
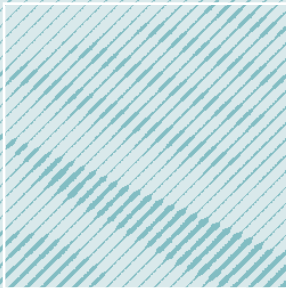
### Faxing

- **Extremely versatile** – send or receive single or double-sided*[2] faxes up to A3 size.
- **Saves time** – Super G3/JBIG compression for extra speed.
  – On-line transmission reduces total operation time.
  – 40-sheet RSPF enhances the efficiency of your fax jobs.
- **Auto dialling** – register up to 50 frequently used numbers for one-touch dialling and 300 numbers for two-digit dialling.
- **Dependable** – flash memory prevents data loss in a power failure.
- **Job Separator** (option) prevents incoming faxes from getting mixed with copy/print jobs*[3].
- **PC-Fax transmission** – directly sends a document created on your PC to a recipient's fax machine without printing to paper.

*[1] Optional MX-NB10 required.

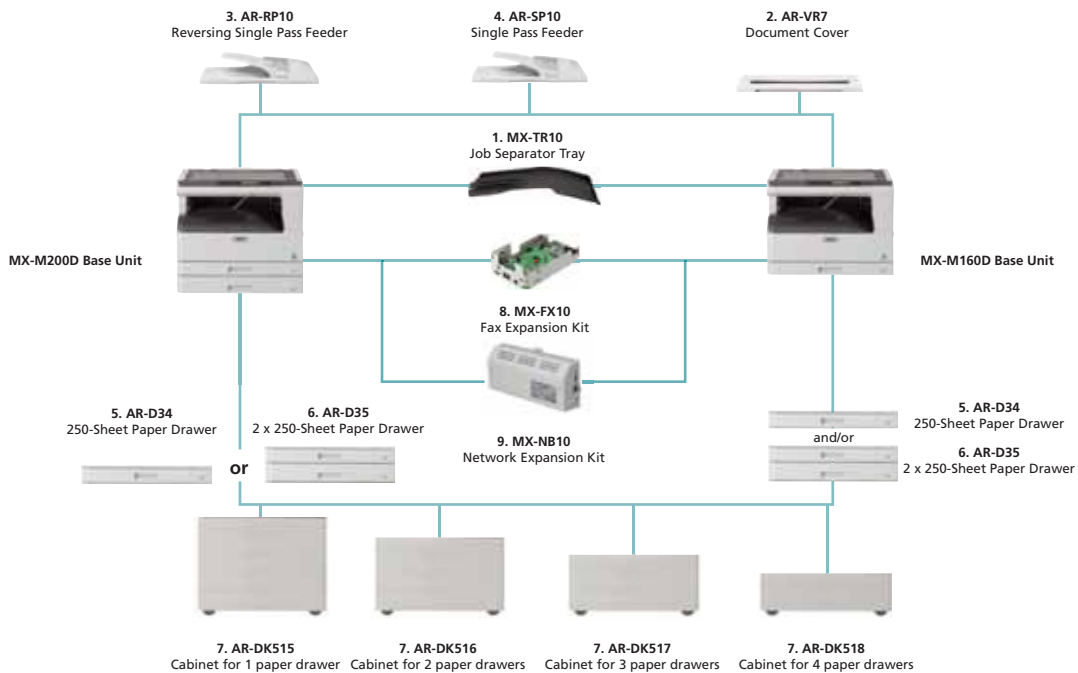*[2] Optional RSPF required to send two-sided documents.

*[3] Output destinations can be designated, sending fax or printer output to the Job Separator tray and copier or printer output to the bottom tray.
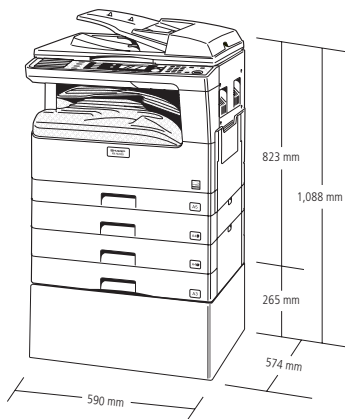
# MX-M200D/MX-M160D - **Options**

**3. AR-RP10**
Reversing Single Pass Feeder

**4. AR-SP10**
Single Pass Feeder

**2. AR-VR7**
Document Cover

**1. MX-TR10**
Job Separator Tray

**MX-M200D Base Unit**

**MX-M160D Base Unit**

**8. MX-FX10**
Fax Expansion Kit

**5. AR-D34**
250-Sheet Paper Drawer

**6. AR-D35**
2 x 250-Sheet Paper Drawer

**9. MX-NB10**
Network Expansion Kit

**5. AR-D34**
250-Sheet Paper Drawer

and/or

**6. AR-D35**
2 x 250-Sheet Paper Drawer

or

**7. AR-DK515**
Cabinet for 1 paper drawer

**7. AR-DK516**
Cabinet for 2 paper drawers

**7. AR-DK517**
Cabinet for 3 paper drawers

**7. AR-DK518**
Cabinet for 4 paper drawers

## Finishing

1. **MX-TR10 Job Separator Tray Kit**
   Separates output according to the type of job
   (print/copy/fax)
   A3 to A6
   Upper tray : 100 sheets
   Lower tray (MFP): 150 sheets

823 mm
1,088 mm
265 mm
574 mm
590 mm

Some options may not be available in some areas.

## Base Unit

2. **AR-VR7 Document Cover**

3. **AR-RP10 Reversing Single Pass Feeder**
   A3 to A5, 40 sheets, 56 to 90 g/m²

4. **AR-SP10 Single Pass Feeder**
   A3 to A5, 40 sheets, 56 to 90 g/m²

5. **AR-D34 250-Sheet Paper Drawer**
   A3 to B5R, 250 sheets, 56 to 90 g/m²

6. **AR-D35 2 x 250-Sheet Paper Drawer**
   A3 to B5R, 500 sheets, 56 to 90 g/m²

7. **Cabinet**
   There are four cabinets available, depending upon
   the paper drawer configuration used

   **AR-DK515 Cabinet for 1 paper drawer**
   **AR-DK516 Cabinet for 2 paper drawers**
   **AR-DK517 Cabinet for 3 paper drawers**
   **AR-DK518 Cabinet for 4 paper drawers**

## Connectivity Board

**Faxing**

8. **MX-FX10 Fax Expansion Kit**
   Super G3 fax module

   **AR-MM9 8MB Fax Memory**

**Printing/Scanning**

9. **MX-NB10 Network Printing/Scanning Expansion Kit**
   Interface board for network printing/scanning

   **AR-SM5 256MB Memory**

   Additional Sharpdesk™ licenses:

   **MX-USX1 x 1 User**
   **MX-USX5 x 5 Users**
   **MX-US10 x 10 Users**
   **MX-US50 x 50 Users**
   **MX-USA0 x 100 Users**

   **MX-PK10 PS3 Expansion Kit***
   Enables PostScript printing

   **AR-PF1 Barcode Font Kit***
   Barcode and OCR font kit

   **AR-PF2 Flash ROM Kit***
   For additional fonts

   *Optional MX-NB10 is required

# Specifications

## General

| | | |
|---|---|---|
| **Engine speed (max.)** | A4 | A3 |
| MX-M160D | 16 ppm/cpm | 9 ppm/cpm |
| MX-M200D | 20 ppm/cpm | 11 ppm/cpm |
| **Paper size** | Max. A3, min. A6 | |
| **Paper capacity** | | |
| MX-M160D | Standard: 350 sheets (250-sheet drawer and 100-sheet multi-bypass tray) | |
| | Maximum: 1,100 sheets (4 x 250-sheet drawers and 100-sheet multi-bypass tray) | |
| MX-M200D | Standard: 600 sheets (2 x 250-sheet drawer and 100-sheet multi-bypass tray) | |
| | Maximum: 1,100 sheets (4 x 250-sheet drawers and 100-sheet multi-bypass tray) | |
| **Paper weight** | Drawer: 56 g/m$^2$ - 90 g/m$^2$ | |
| | Bypass tray: 56 g/m$^2$ - 200 g/m$^2$ | |
| **Warm-up time** | Less than 45 seconds | |
| **Memory** | Standard: 48MB (shared) | |
| | Optional: 256MB (AR-SM5) | |
| **Power requirements** | Rated local AC voltage ±10%, 50/60 Hz | |
| **Power consumption (max.)** | 1.2 kW (220 to 240V) | |
| **Dimensions (W x D x H)** | | |
| MX-M160D | 590 x 574 x 437 | |
| MX-M200D | 590 x 574 x 522 | |
| **Weight** | | |
| MX-M160D | 28.1 kg | |
| MX-M200D | 33.0 kg | |

## Copier

| | |
|---|---|
| **Original paper size** | Max. A3 |
| **First copy time**[*1] | 7.2 sec. |
| **Continuous copy** | Max. 999 copies |
| **Resolution** | 600 x 600 dpi |
| **Gradation** | Equivalent to 256 levels |
| **Zoom range** | 25 to 400% (50 to 200% using SPF/RSPF) in 1% increments |
| **Preset copy ratios** | 10 ratios (5R/5E) |

## Printer

| | |
|---|---|
| **Resolution** | 600 x 600 dpi |
| **Interface** | USB 2.0 |
| **Supported OS** | Windows® 2000/XP, Windows Vista® |
| **PDL emulation** | SPLC (Sharp Printer Language with Compression) |

## Network Printer (optional MX-NB10 required)

| | |
|---|---|
| **Resolution** | 600 dpi, 300 dpi[*2] |
| **Memory** | 64MB, expandable to 320MB |
| **Interface** | 10Base-T/100Base-TX |
| **Supported OS**[*3] | Standard:  Windows 2000/XP, Windows Server 2003/2008, Windows Vista |
| | Optional: Mac OS 9.0-9.2.2, Mac OS X 10.2.8, 10.3.9, 10.4.11, |
| | 10.5 – 10.5.6 |
| **Network protocols** | TCP/IP, IPX/SPX (Netware), NetBEUI, EtherTalk (AppleTalk) |
| **PDL emulation** | Standard: PCL 6/5e |
| | Option[*3]: PS3 emulation |
| **Available fonts** | 80 fonts for PCL, 136 fonts for PS3 emulation[*3] |
| **Bundled Utility Software** | Sharp Printer Administration Utility, Sharp Status Monitor |

## Colour Scanner

| | |
|---|---|
| **Scan method** | Push scan (via operation panel) |
| | Pull scan (with TWAIN-compliant application) |
| **Resolution**[*4] | Push scan: 75, 100, 150, 200, 300, 400, 600 dpi |
| | Pull scan: 75, 100, 150, 200, 300, 400, 600 dpi |
| | 50 to 9,600 dpi[*5] via user setting |
| **Protocols** | TWAIN, WIA (Windows XP only), STI |
| **Interface** | USB 2.0 |
| **Scanner utilities** | Button Manager, Sharpdesk™ |

## Network Scanner (optional MX-NB10 required)

| | |
|---|---|
| **Scan method** | Push scan (via operation panel) |
| **Resolution**[*4] | 75, 100, 150, 200, 300, 400, 600 dpi |
| **File formats** | JPEG, PDF, TIFF |
| **Scanner utilities** | Sharpdesk™ |
| **Supported OS** | Windows 2000/XP, Windows Server 2003/2008, Windows Vista |
| **Scan destinations** | Scan to e-mail, desktop, FTP server |

## Fax (optional MX-FX10 required)

| | |
|---|---|
| **Compression method** | MH/MR/MMR/JBIG |
| **Communication protocol** | Super G3/G3 |
| **Transmission time** | Less than 3 seconds[*6] |
| **Modem speed** | 33,600 bps to 2,400 bps with automatic fallback |
| **Transmission resolution** | Standard: 203.2 x 97.8 dpi |
| | Super Fine: 406.4 x 391 dpi |
| **Recording width** | A3 to A5 |
| **Memory** | 2MB flash memory, max. 10MB with option AR-MM9 |
| **Grey scale levels** | Equivalent to 256 levels |

*1: When feeding A4 sheets from 1st paper tray.  *2: 300 dpi can be selected only when using the PCL6 or PCL5e printer driver.  *3: MX-PK10 required for PS3, Mac OS and EtherTalk.  *4: Scan resolution varies according to the amount of memory installed.
*5: Resolutions higher than 600 dpi are interpolated.  *6: Based on Sharp's standard chart with approx. 700 characters (A4 long-edged feeding at standard resolution in Super G3 mode, 33,600 bps, JBIG compression).