

# SHARP®

## MX-3500N MX-3501N MX-4501N

### Workgroup Color Document Systems

Sharp's MX-3500N, MX-3501N and MX-4501N workgroup color multifunction document systems redefine the standard for productivity. With uncompromising quality and outstanding reliability, these color document systems deliver all the functionality today's growing businesses need, along with the added benefits of high-quality, cost-effective color. Best-in-class multifunction features allow you to work smarter and faster than ever. These versatile, scalable systems can easily copy, print, scan, fax, e-mail or store your files with great efficiency. But that's only the beginning. The MX Color Series also supports the **Sharp OSA™ development platform**. Designed to boost productivity, Sharp OSA technology gives you one-touch access to your business applications right from the LCD display, offering a new realm of control and convenience. Our advanced web-based management and easy-to-use tools, make monitoring and containing costs effortless, so keeping an eye on the bottom line is never an issue. And for unparalleled security, Sharp's MX Color Series can help protect your data by securing walk-up, scan and network access. With several layers of device protection, Sharp can help keep your business ahead of regulatory compliance.



#### Sharp's Innovative Features

- Extraordinary 800 MHz **multi-tasking color** document system with copy, print and network scanning standard
- Versatile application integration with the **Sharp OSA development platform** enables users to access network applications right from the LCD panel
- **Customizable**, easy-to-navigate touch-screen display
- Sharp's outstanding **multi-level document and network security**
- MX-3501N/MX-4501N offer standard 150-sheet duplex single pass document feeder with **Color Scan<sup>2</sup>**™
- Large **5,600-sheet** maximum on-board paper supply (1,100 standard)
- Standard **Hard Disk** allows greater job queuing and document filing
- One-touch **ImageSEND** function facilitates scans to USB devices, network folders, e-mail and more
- Space-saving **Inner Finisher** or **Saddle-stitch Finisher** and hole punch options

#### The total package

With impressive speeds at 35 ppm in both B&W and Color, the MX-3500N and MX-3501N can easily keep up with the demands of busy offices and workgroups. The faster MX-4501N delivers a speedy 45 ppm in B&W and 35 ppm in color. With an incredible **5,600-sheet maximum paper capacity** and productive **document finishing options**, these powerful performers can handle even the largest projects with ease. With trayless duplexing, electronic sorting and integrated offset stacking, the MX Series make organization and distribution effortless. Front-loading paper drawers and easy-to-change toner cartridges simplify maintenance. And if that's not enough, new **long-life consumables** and supplies minimize service calls, resulting in lower operating costs.

#### Color Scan<sup>2</sup> technology delivers twice the productivity

Speed up your workflow with Sharp's innovative **Color Scan<sup>2</sup> technology**. A standard 150-sheet duplexing single pass document feeder (DSPF)\* with simultaneous scanning of 2-sided documents allows the MX-3501N and MX-4501N to easily process large-scale projects with incredible efficiency. And since the document is scanned only once, productivity and reliability are significantly increased.

#### Innovative document filing

For even more efficiency, the MX-3500N/ MX-3501N and MX-4501N offer convenient **Document Filing**. Businesses can now maintain consistency by standardizing and storing frequently used files such as fax cover sheets, distribution forms, and more. With large **Hard Disk storage capacity**, everyone can retrieve and share documents. Need to restrict access to select users? Not a problem. With private storage features, PIN-code access, and **My Folders**, you can easily store sensitive documents securely. And with Sharp's **Quick Folders**, you can temporarily store documents with fast, one-touch simplicity. Plus, an advanced backup system ensures that your files are safe and secure.

#### Best-in-class image quality

Sharpen your business communications with crisp, clear images and dazzling color. Create dynamic proposals, presentations and newsletters that get noticed and make a statement. Sharp's **micro-fine toner** technology and **Image Stabilizing System** ensure color accuracy from the first page to the last—so your documents always look good.



\* MX-3500N: 100-sheet RSPF and 10 GB storage capacity

# MX-3500N/MX-3501N/MX-4501N SPECIFICATIONS

## Main Specifications

<b>Base Models</b>	<b>MX-3500N:</b> Color Multifunction digital document system; 800 MHz multi-tasking controller, 40 GB HDD with document filing, PCL5c/PCL6 compatible network printing/scanning, 100-sheet RSPF, auto duplex, two 500-sheet paper drawers and 100-sheet bypass. <b>MX-3501N/MX-4501N:</b> Color Multifunction digital document system; 800 MHz multi-tasking controller, 80 GB HDD with document filing, PCL5c/PCL6 compatible network printing/scanning, 150-sheet DSPF, Scan2 technology, auto duplex, two 500-sheet paper drawers and 100-sheet bypass.
<b>Functions</b>	Copy, print, network print, network scan, document filing, Sharpdesk™ plus a fax option <sup>1</sup>
<b>Copy System</b>	Laser, Dry Transfer, Organic Photo Conductor Ultra-Fine Toners/Developers, Magnetic & Heat Process
<b>Copy Size</b>	Input: Min. 5 1/2" x 8 1/2", Max. 11" x 17" Output: Envelopes, Letter, Letter-R, Legal, Ledger & 12" x 18"
<b>Copy Speed</b>	<b>MX-3500N/MX3501N:</b> 35 ppm B&W/35 ppm Color <b>MX-4501N:</b> 45 ppm B&W/35 ppm color (Based on letter size original using copy tray 1)
<b>First Copy Time</b>	Platen glass: 4.1 seconds MX-4501N (B&W); 4.7 seconds MX-3500N/MX-3501N (B&W); 6.9 seconds (color); DSPF: 7.3 seconds (B&W); 13.1 seconds (color); RSPF: 8.8 seconds (B&W); 13.9 seconds (color); Based on letter size original using copy tray 1 with laser unit motor running.
<b>Warm Up Time</b>	240 Seconds or less
<b>Copy Data</b>	25% to 400% Zoom (1% increments), 25% to 200% (DSPF/RSPF); 9 R/E presets; 999 Continuous Copy
<b>Scanning</b>	<b>MX-3500N:</b> Up to 48 pages per minute scanning/fax/internet fax or 45 ppm copying using B&W originals; copying or scanning with color originals at standard resolution is 35 pages/minute. <b>MX-3501N/MX-4501N:</b> Up to 60 pages/minute with 2-sided B/W originals at standard resolution (includes Fax & Internet-Fax) Up to 35 pages/minute with Color Copy or Scan originals at standard resolution
<b>Original Feeder</b>	<b>MX-3500N:</b> Reversing Single Pass; 100-sheet capacity (using 20 lb Bond) <b>MX-3501N/MX-4501N:</b> Duplex Single Pass; 150-sheet capacity (using 20 lb bond) Sizes: 5 1/2" x 8 1/2", 8 1/2" x 11", 8 1/2" x 11", 8 1/2" x 14", 11" x 17" (13-34 lb. bond)
<b>Paper Feed</b>	Standard: Two 500-sheet paper drawers (letter, legal, ledger, statement size) Optional: One 500-sheet paper drawer (letter, legal, ledger, statement size) or two 500-sheet paper drawers (letter, legal, ledger, statement size) and 3,500-sheet large capacity tray (letter size). See authorized dealer for configurations.
<b>Paper Types</b>	Paper drawers and large capacity tray: 16-28 lb. bond paper. Other paper types include plain, pre-printed, recycled, pre-punched, letterhead and color paper.
<b>Bypass Tray</b>	Capacity: 100 sheets (letter, legal, ledger, statement, 12"x18" & envelope size) Categories: Plain paper (16-28 lb. bond 60-105 gsm), Heavy paper (28-56 lb. bond/90-110 Index/106-209 gsm), Envelope (20-24 lb. bond/Monarch/Com-10), Tab paper (letter only). Other types include label stock, gloss paper, pre-printed, recycled, pre-punched, letterhead, color, and OHP film.
<b>Output Tray</b>	Main output tray (top) 500 sheets (face down); Option: Right-side tray 100 sheets (face down)
<b>Duplexing</b>	Standard automatic duplex copying and printing of up to 110 Index
<b>Interface</b>	Ethernet (10/100BaseT), USB 2.0 (host port), USB 2.0 (device port)
<b>Memory</b>	Standard 768 MB (copier memory); 640 MB (printer/network scanning) memory
<b>Hard Disk</b>	<b>MX-3500N</b> (40 GB HDD): Document Filing: 10 GB • Main/Custom: Up to 1,400 pages or 1,000 files • Quick Folders: Up to 1,400 or 1,000 files <b>MX-3501N/MX-4501N</b> (80 GB HDD): Document Filing: 30 GB • Main/Custom: Up to 4,200 pages or 1,000 files • Quick Folders: Up to 1,400 or 1,000 files
<b>Resolution</b>	Scan: monochrome/color: Max 600 DPI; Copy Output (B&W/Color): Max 600 DPI
<b>Halftone</b>	Equivalent to 256 gradations/2 levels (mono)
<b>Color modes</b>	Auto Color Selection, Full Color, B/W, Dual & Single Color Modes
<b>Copy Features</b>	Scan-once Print-many (Electronic Sorting), Offset-stacking, Auto Color Selection (ACS), Auto Paper Selection (APS), Auto Magnification Selection (AMS), Auto Tray Switching, Rotation Copy, Job Reservation, Tandem Copy, Book Copy, Margin Shift, Tab-paper Insertion, Edge Erase, Center Erase, Dual-page Copy, Cover Pages, Insert Pages, OHP Insertion, Job Build, Card Shot, Mirror Image, B/W Reversal, Centering, Proof Copy, 2-in-1, 4-in-1, Pamphlet, Photo Repeat, Multi-page Enlargement, Document Filing, Account Management, Job Programs, Stamp Mode (Date/Text/Page B&W/Color) <sup>1</sup>

1 Some features require optional equipment  
2 1,200 DPI requires optional PostScript compatible expansion kit  
3 Actual transmission time will vary based on line conditions.  
Based on Sharp Standard Test Chart with approximately 700 characters, letter size in standard resolution

## Main Specifications Continued

<b>Accounts</b>	Up to 1,000 users. Supports user-number authentication (on device), login name/password (on device) or login name/password (on device via LDAP)
<b>Firmware</b>	Flash ROM update via USB and/or network
<b>Power Source</b>	AC 100-127 VAC, 60 Hz, 12 Amps
<b>Power</b>	Approx Max: 1440W; Sleep Mode: 13W Low Power Mode: 185W (MX-3500N/MX-3501N) 223W (MX-4501N)
<b>Weight</b>	<b>MX-3500N:</b> Approximately 262 lbs. (base unit) <b>MX-3501N/MX-4501N:</b> Approximately 282 lbs. (base unit)
<b>Dimensions</b>	<b>MX-3500N:</b> 25 7/16" (w) x 26 3/8" (d), x 37 7/16" (h) <b>MX-3501N/MX-4501N:</b> 25 7/16" (w) x 26 3/8" (d), x 37 13/16" (h)

## Network Printing System (standard)

<b>PDL</b>	PCL6 / PCL5c compatible
<b>Resolution</b>	1,200 dpi (monochrome), 600 DPI, 300 DPI <sup>1</sup>
<b>Operating Systems</b>	Windows® 98, Windows Me, Windows XP/Windows XP x64, Windows NT®4 (SP5 or later), Windows 2000, Windows Server® 2003, Windows Vista™, Windows Vista x64, Unix®, Novell® NetWare® 3.x/4.x/5.x, MAC OS® 9.x, MAC® OS X
<b>Software</b>	Print drivers, Printer Status Monitor and Printer Administration Utility
<b>Features</b>	Continuous, Duplex, Pamphlet, N-up, Image Rotation, Different Cover Page/Last Page, Transparency Inserts, Tabs, Carbon-copy Print, Fit-to-page, Poster, Margin Shift, Mirror Image, Watermarks, Overlay, Confidential, Confidential Batch, Release from Hold, Proof, Bypass, Job Priority, Job Control, Tandem and Direct printing (Note: some features not available on certain print drivers) <sup>1</sup>
<b>Direct Printing</b>	File Types: TIFF, JPEG, PCL, TXT, PDF, Encrypted PDF, and PS (PS Expansion Kit required) <sup>2</sup> Methods: FTP, Web page, E-mail and USB memory
<b>Interface</b>	Ethernet; 10/100 BaseT; USB 2.0
<b>Print Drivers</b>	Windows 98, Windows Me, Windows NT4.0 (SP5 or later), Windows 2000, Windows XP/Windows XP x64, Windows Server 2003, Windows Vista, Windows Vista x64, MAC PPD (optional), MAC OS 9, MAC OS X
<b>Protocols</b>	TCP/IP for Windows and Unix environments including HTTPS and SSL IPX/SPX for Novell® and EtherTalk for Macintosh® environments
<b>Print Protocols</b>	LPR, IPP, PAP, Raw TCP (port 9100), FTP, Novell Pserver/Rprinter
<b>Security</b>	Secure Socket Layer, IP/MAC address filtering, protocol filtering, port management, user authentication and document administration

## Network Scanning System (standard)

<b>Scan Output</b>	Resolution: 600, 400, 300, 200 or 100 DPI
<b>Image Formats</b>	Monochrome: TIFF, PDF, Encrypted PDF Color / Grayscale: TIFF, JPG, PDF, Encrypted PDF Internet Fax: TIFF-FX, TIFF-F, TIFF-S
<b>Compression</b>	Mono: Uncompressed, G3 (MH), G4(MR/MMR) Color/Grayscale: JPEG (high, middle, low) Internet Fax: MH/MMR (option)
<b>Destinations</b>	E-mail, Desktop, FTP, Folder (SMB), USB memory, Internet fax (option), Super G3 fax (option)
<b>One-Touch</b>	Up to 999 destinations (combined with scan destinations) and up to 500 Groups
<b>Programs</b>	48 total
<b>Scanning Protocols</b>	TCP/IP (includes SMTP, LDAP, FTP, SMB)
<b>Security</b>	E-mail server user authentication and user account control
<b>Configuration</b>	Web-based management; user/administrator
<b>Method</b>	level login security
<b>Software</b>	Sharpdesk® desktop document management software (1 user license)

## B&W Super G3 Fax Kit (option)

<b>Transmission</b>	Super G3, G3 (33.6 KBPS) with JBIG, MMR, MR or MH Compression by sheets fed simplex, duplex or off the glass; Max 400 DPI (ultra-fine) at approximately 2 seconds; JBIG <sup>1</sup>
<b>Data</b>	
<b>Auto Dialing</b>	Up to 999 destinations (combined with scan destinations) and up to 500 Groups
<b>Inbound Routing</b>	Forwards received fax data to E-mail
<b>Originals</b>	Up to 31.5" (for transmission)
<b>Programs</b>	48 (combined)
<b>Memory</b>	8 MB (exclusive)
<b>Features</b>	Quick on-line transmission, direct transmission, F-Code transmission/reception, rotate transmission, anti-junk fax reception, automatically staple received faxes, secure fax release, out of paper memory reception, auto redial, 2-in-1 transmission, duplex reception transaction reports, activity reports and PC fax <sup>1</sup>

## Inner Finisher (option)

<b>Output Capacity</b>	Face down, 500 sheets (letter or statement) or 250 sheets (12" x 18", ledger, or legal)
<b>Stapling</b>	Plain paper, (letter, legal, or ledger size) with staple in front (1), rear (1), or both
<b>Max. Pages for Stapling</b>	50 sheets (letter size) or 30 sheets (legal, ledger or mixed same-width size)
<b>Stapled Sets</b>	30 bundles or 500 sheets (letter or statement size) or 30 bundles or 250 sheets (legal or ledger size)
<b>Hole Punching</b>	Optional hole-punch unit (3-holes/2-holes) MX-PNX1B

## Saddle-Stitch Finisher (option)

<b>Type</b>	Console finisher with dual exit trays (mounts on left side of host machine)
<b>Output Trays</b>	Upper tray: Offset stack tray; Lower tray: Book tray for saddle-stitch
<b>Output Capacity</b>	1,000 sheets (letter/statement size) or 500 sheets (legal, ledger or letter-R size)
<b>Output Data for Stapling</b>	Face down; 30 sheets (letter/statement) or 25 sheets (legal, ledger or mixed same-width) using Plain paper, letter/legal/ledger size or mixed with staple in front (1), rear (1), or both
<b>Saddle-Stitch</b>	Center stitch/center folding (2 staples) letter/ledger paper sizes
<b>Max Sets</b>	Up to 10 sets (6-10 sheets per set) Up to 20 sets (1-5 sheets per set)
<b>Punching</b>	Optional hole punch unit AR-PN1B (2 holes/3 holes)

## Large Capacity Tray (option)

<b>Type</b>	Large capacity paper feed desk
<b>Paper Size</b>	Letter size, 16-28 lb. Bond
<b>Capacity</b>	3,500 sheets
<b>Paper Types</b>	Plain paper, pre-printed, recycled, letterhead, pre-punched and colored paper

## Optional Equipment List

MX-DEX3	Stand/1 x 500 Paper Desk
MX-DEX4	Stand/2 x 500 Paper Desk
MX-45ABD	Rolling Cabinet Base
MX-LCX1	Large Capacity Tray (requires MX-DEX3 or MX-DEX4 or MX-45ABD)
MX-FNX1	Inner Finisher
MX-FNX2P	Saddle-stitch Finisher/Paper Pass Unit
MX-PNX1B	Punch Unit (for Inner Finisher)
AR-PN1B	Punch Unit (for Saddle-stitch Finisher)
MX-TRX2	Exit Tray Unit
MX-FWX1	Postscript® 3™ Compatible Expansion Kit
MX-FX1	Internet Fax Kit
MX-FX1	Super G3 Fax Kit
AR-PF1	Bar Code Font Kit
MX-AMX1	Application Integration Module
MX-FRX2	Data Security Kit (Common Criteria Version)
MX-FRX2U	Commercial Data Security Kit (Commercial Version)
MX-PEX1/PEX2	Fiery Print Controller (Adobe® PostScript 3 included)

## Supplies

MX-45NTBA	Black Toner Cartridge
MX-27NTCA	Cyan Toner Cartridge
MX-27NTMA	Magenta Toner Cartridge
MX-27NTYA	Yellow Toner Cartridge
MX-27NVBA	Black Developer
MX-27NVSA	Cyan/Magenta/Yellow Developer
MX-27NRSA	Drum



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