

SHARP

MX-C381/C311 MX-C380/C310

Digital Full Colour Multifunctional System

Bringing Sharp Innovation and Style to the Office



COPY

NETWORK PRINT

NETWORK SCAN

SHARPEDESK

FAX
OPTION

Beyond the Conventional

Sharp's award-winning line of A3 MFPs has given rise to the MX-C381/C311 and MX-C380/C310—full-colour A4 MFPs quite unlike conventional A4 models. While still boasting the impressive speed, superb image quality, multi-layered security, and unsurpassed ease of use found in Sharp's A3 MFPs, these new-concept solutions take A4 MFP performance to a higher plane of excellence.

The MX-C381/C311/C380/C310 delivers four-in-one multifunction—copy, network print, network scan, and optional fax—in an eye-pleasing design and space-saving dimensions. The MX-C381/C311, built for IT-centric use, boasts an 8.5-inch touch-screen LCD, while the MX-C380/C310 features a 4.3-inch display. And every MFP in the series offers super-speedy scanning and the control and convenience of Sharp OSA (Open Systems Architecture) customisation.



MINIMAL SPACE, MAXIMUM STYLE

Stylish New Design

A new dark-coloured control panel gives the MX-C381/C311/C380/C310 a distinct design advantage and brings polished chic to office settings. What's more, the entire machine—front, back, and sides—sports a unique textured surface that enhances décor in a way that conventional office equipment can not.

Small Footprint

Despite an extremely small footprint—just 535 mm wide and 438 mm deep—the MX-C381/C311/C380/C310 does not compromise on performance. This powerful space saver can conveniently go to work on or next to a file cabinet, even with the finishing option installed.

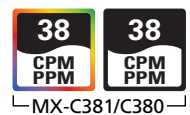


Super-Efficient Colour and B/W Output

The tandem printing engine with four in-line drums helps the MX-C381/C380 deliver a fast output of 38 cpm/ppm*¹ (and the MX-C311/C310 in 31 cpm/ppm*²) in full colour and in B/W. And the first copy comes out in just 8.9 seconds in full colour and 8.0 seconds in B/W. What's more, its short, straight paper path minimises misfeeds to save you paper and toner costs.

*1: A4; 40 cpm/ppm for 8 1/2" x 11" size

*2: A4 (8 1/2" x 11")

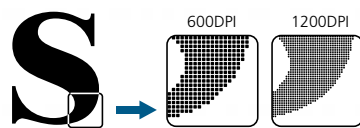




SUPERB PRINT QUALITY

True 1,200 x 1,200-dpi Printing

The MX-C381/C311/C380/C310's print engine provides razor-sharp 1,200-dpi printing—without sacrificing output speed—for ultra-clear image quality. Fine lines and small text come out crisper and easier to read.



Improved Imaging System

Sharp thoroughly revamped its imaging process for the MX-C381/C311/C380/C310; now a high-performance processor, a new developer, and the new **Mycrostoner-HG** (High Grade) combine to provide breathtaking image quality. The smaller particle size of Mycrostoner-HG and the developer allows for reduced graininess and clear reproduction of fine lines and halftone colours.



Easy, High-Quality Copying

Because the MX-C381/C311/C380/C310 features **third-generation Sharp Auto Colour Mode**, anyone—with just a push of the start button—can easily and automatically make copies that are faithful to the original. Here's how it works. **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. This is what allows the MX-C381/C311/C380/C310 to print out maps with crisp, clear text and to automatically remove the background colour on newspaper and magazine copies for clearer output. When copying in B/W, multi-level error diffusion technology provides dramatically smoother gradation in photos and subtle greyscale images.

Third-generation (3G) Sharp Auto Colour Mode



Auto recognition

FULL-FUNCTION EASE

8.5-Inch Touch-Screen LCD MX-C381 MX-C311

The MX-C381/C311's logically designed control panel features a wide, clear, W-VGA-resolution touch-screen LCD with a choice of six screen colours. Pushing the Home button, even in the middle of an operation, takes you back to the Start screen. And you can quickly access the most frequently used functions and settings by programming them into My Menu.



Home screen



QWERTY keyboard screen



4.3-Inch Colour LCD MX-C380 MX-C310

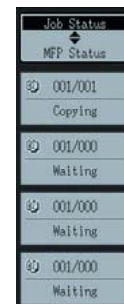
The control panel on the MX-C380/C310 features a 4.3-inch colour LCD that conveniently displays job-progress information and other items. The control panel also boasts a special Shortcut Key for easy access to frequently used settings and Sharp OSA (Open Systems Architecture) applications.

Note: See page 6 for more information on Sharp OSA.



Job Status Screen MX-C381 MX-C311

- Whether printing or copying, the MX-C381/C311's control panel displays a list of all jobs, showing you at a glance the jobs in progress and the position of your job in the queue. And, with a few quick touches of the LCD screen, the Priority Printing function lets you easily change the job queue order or delete jobs that are no longer needed.
- On the right side of the LCD, you'll find a simplified version of the Job Status display. This lets you quickly confirm the first four jobs in the queue without having to go to the Job Status screen. The display also provides a quick rundown on MFP system status.



Job status

USB Memory-Ready

The MX-C381/C311/C380/C310 offers a whole new level of convenience with two USB ports. One of those ports is located at the front of the MFP right beneath the control panel. It comes in handy when scanning documents directly to USB memory devices or 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.



Business Card Feeder*

The optional Business Card Feeder automatically feeds in and scans business cards and can be used with commercially available business card scan software to create business card databases. A pocket on the left side of the MFP provides handy storage of the Business Card Feeder.

* Available at a later date



Thumbnail Display* and Previews

- Making the search for files easier and more convenient than ever, thumbnails and up-close previews of Document Filing data files, as well as conventional file names, can be displayed on the MX-C381/C311's LCD control panel. And to help users decide which documents to print out, the LCD can also display thumbnails and previews of incoming faxes and Internet faxes.
- The MX-C380/310's LCD control panel displays previews of incoming faxes and Internet faxes as well as previews of fax data stored in the Memory Box.

* Available on MX-C381/C311's 8.5-inch LCD



Thumbnail display*



Preview display
(on MX-C381/C311's 8.5-inch LCD)

PRODUCTIVE PERFORMANCE

Quick Scanning and RSPF

With a scanning speed of 33 opm*1 (A4 size) or 35 opm*1 (letter size)—the fastest scan speed in the A4 MFP category*2—the MX-C381/C311/C380/C310 can complete large scan jobs with ease and efficiency. And the standard-equipped **50-sheet RSPF** (reversing single pass feeder), which smoothly feeds in both one- and two-sided originals, brings added efficiency.

*1: Single-side feeding. opm: originals per minute
*2: As of September 2008



Built-in Stackless Duplex Module

The built-in stackless duplex module on the MX-C381/C311/C380/C310—particularly effective when used with RSPF—reduces paper costs and saves filing space by making two-sided copies and printouts.

Colour Network Scanning

- The MX-C381/C311/C380/C310 works as a full-colour network scanner that can be used with any Windows PC on the network. It supports TIFF, PDF, encrypted PDF, JPEG, and the new XPS (XML Paper Specification) file formats. And Auto Colour Selection chooses the right mode for scanning originals containing both colour and B/W pages (see page 3).
- With the touch of a few buttons, you can choose different ways to distribute your scanned documents. **Scan to E-mail** sends documents as an e-mail attachment. **Scan to FTP Server** scans documents directly to an FTP server for storage. **Scan to Desktop** sends scanned documents directly to your PC desktop. **Scan to Network Folder (SMB)** sends files to a shared folder on a networked Windows PC. **Scan to USB Memory** scans documents directly to USB memory devices. And **Scan to Fax** enables conventional faxing or Internet faxing.

High-Speed Faxing

The optional MX-FXX3 Fax Expansion Kit turns the MX-C381/C311/C380/C310 into a 33.6 Kbps **Super G3 fax**. Using JBIG compression technology, the MX-C381/C311/C380/C310 can send an A4 (8 1/2" x 11") size page in under 3 seconds*. Use the 50-sheet RSPF to further boost faxing efficiency. And, because **Quick On-Line Transmission** can start dialling and transmitting as soon as the first page is scanned into memory, you can send documents in much less time.

* Based on Sharp's standard chart with approximately 700 characters (A4 or 8 1/2" x 11") at standard resolution.

MULTI-LAYERED SECURITY

Data Security Kit

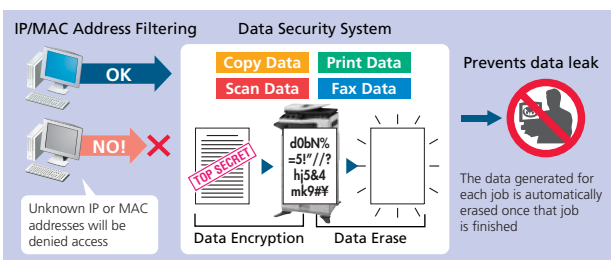
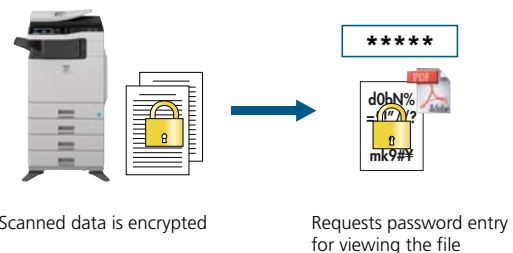
Digital copier/printers or MFPs can retain hundreds of pages of confidential information from previous jobs on their hard disks or internal memory. To safeguard this information from unauthorised access, the optional **Data Security Kit** automatically **encrypts and erases** the data after each job is complete as well as data stored on the hard disk.

Secure Network Access

The MX-C381/C311/C380/C310's **IP/MAC address filtering** function provides highly secure operation by restricting access to the MX-C381/C311/C380/C310 on your office network. Only PCs that have either their IP address or MAC (media access control) address registered are allowed to use the MX-C381/C311/C380/C310. Attempted access from an unknown IP or MAC address will be denied, preventing unauthorised use. The MX-C381/C311/C380/C310 also supports the **IEEE 802.1X** standard for port-based network access control, which blocks all access from unauthorised devices.

Encrypted PDF with Password Protection

To prevent unauthorised viewing of confidential image data, the MX-C381/C311/C380/C310 enables users to password protect and encrypt PDF data. By setting a password when scanning, users can transmit a PDF over the network in encrypted format. Then, after transmission, viewers will only gain access to the encrypted PDF after successfully re-entering the chosen password.



Document Control Function

Document Control prevents unauthorised copying, scanning, faxing, and filing of confidential documents. This is how it works: the MX-C381/C311/C380/C310 embeds copy prevention data onto a document when it is first copied or printed. It will then detect this data the next time someone tries to make a copy of the document. Any unauthorised attempts to copy a Document Controlled-document will simply be cancelled or result in the output of a blank page.

Note: Requires optional Data Security Kit. May not work for certain types of documents or paper.

Space-Efficient Inner Finisher

The MX-C381/C311/C380/C310's optional inner finisher can be added on without taking up much space. It automates time-consuming tasks, such as sorting and stapling* documents of up to 30 pages, and stacks each job slightly apart from the previous one (offset stacking) for easy retrieval.

* For one-corner stapling only



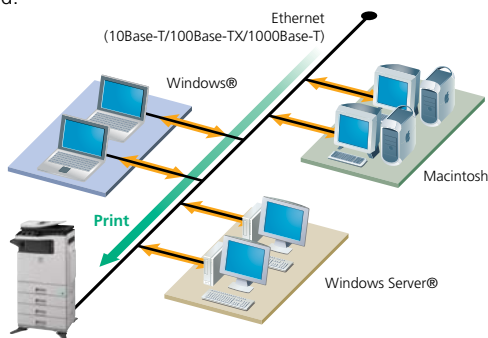
Large Paper Capacity

The MX-C381/C311/C380/C310 comes standard with a 500-sheet paper tray and a 100-sheet multi-bypass feeder. Two types of extra paper drawers are available for a total paper capacity of up to **2,100 sheets**. When a tray runs out of paper, the **Auto Tray Switching** function automatically switches to another paper tray filled with the same size paper.



Supports Most Office Environments

The MX-C381/C311/C380/C310 works as a network printer with the latest and most commonly used operating systems and network protocols, including **IPv6**, and even in mixed OS environments. With a 64-bit, 800 MHz CPU, you get fast, powerful network printing via the 1000Base-T Gigabit Ethernet standard.



Sharp OSA (Open Systems Architecture)

The MX-C381/C311/C380/C310 supports the **Sharp OSA 3.0*** development platform. This innovative, third-generation technology allows users to interact with critical business and network applications and/or external account software right from the LCD control panel, offering a new realm of control and convenience. And since Sharp OSA 3.0 utilises industry-standard network protocols, such as XML and SOAP, the MX-C381/C311/C380/C310 can easily integrate with document management systems, enterprise resource planning software, workflow applications, and more.

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



Note: The screen shown to the left is just a sample. Screen layouts and user interfaces can be specifically designed to accommodate customised application programs.



Print Hold and Confidential Print

To keep others from seeing confidential documents as they are being printed out, the MX-C381/C311/C380/C310's Print Hold function stores print data on its hard disk and withholds output until the user executes a print command from the control panel. For added security, the Confidential Print function requires the user to enter in a PIN (personal identification number) at the machine before printing can begin.

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).

User Authentication

The MX-C381/C311/C380/C310 prevents unauthorised use by requiring passwords for machine access. The MX-C381/C311/C380/C310 can register up to 1,000 users in three access levels as Administrator, User, and Guest. And it can also designate to which function user authentication applies. For example, the MX-C381/C311/C380/C310 can be set to allow B/W copying by all users while restricting colour copying to designated users.

IPv6 and IPsec Support

The MX-C381/C311/C380/C310 supports IPv6, the next-generation Internet protocol. An obligatory part of IPv6 is IPsec (IP Security), a set of protocols for securing Internet protocol (IP) communications. IPsec encrypts and authenticates traffic between specified parties, giving IPsec-compatible products an extremely high level of network security.

SYSTEM CONFIGURATION & OPTIONS

| | | | |
|---|---|---|---|
| <p>BASE UNIT</p> | | | |
| <p>MX-FN12 Finisher</p> | <p>MX-BTX1* Business Card Feeder</p> | <p>MX-FXX3 Fax Expansion Kit</p> | <p>MX-CSX1 500-Sheet Paper Feed Unit</p> |
| <p>MX-CSX1 500-Sheet Paper Feed Unit</p> | <p>MX-CSX2 500-Sheet Paper Feed Unit</p> | <p>MX-CSX1</p> <p>MX-CSX2</p> <p>MX-CSX2</p> | <p>AR-PF1 Barcode Font Kit</p> <p>MX-PUX1 XP5 Expansion Kit (requires MX-SMX3)</p> <p>MX-SMX3 Expansion Memory Board</p> <p>MX-FWX1 Internet Fax Expansion Kit</p> <p>MX-USX1/X5 Sharpdesk 1/5-License Kit</p> <p>MX-US10/50/A0 Sharpdesk 10/50/100-License Kit</p> <p>MX-AMX1 Application Integration Module</p> <p>MX-AMX2 Application Communication Module</p> <p>MX-AMX3 External Account Module</p> |
| <p>Options for MX-C381/C311</p> <p>MX-FR13U* Data Security Kit</p> <p>MX-FR13* Data Security Kit (Common Criteria validated)</p> | | <p>Options for MX-C380/C310</p> <p>MX-PKX5 PS3 Expansion Kit</p> <p>MX-FR12U* Data Security Kit</p> <p>MX-FR12* Data Security Kit (Common Criteria validated)</p> | |

Note: Certain options may not be available in some areas. The base unit can be attached to locally available cabinets either on its own or along with optional paper feed unit(s). Consult your local dealer for details. * Available at a later date.

SPECIFICATIONS (tentative)

| General | |
|---------------------------------------|---|
| Type | Desktop |
| Engine speed (colour & B/W) | MX-C381/C380 Max. 38 cpm/ppm (A4) Max. 40 cpm/ppm (8 1/2" x 11") MX-C311/C310 Max. 31 cpm/ppm (A4, 8 1/2" x 11") Max. A4 (8 1/2" x 14"), min. A5 (5 1/2" x 8 1/2") Standard: 600 sheets (500-sheet tray and 100-sheet multi-bypass tray) Maximum: 2,100 sheets |
| Paper size | Max. A4 (8 1/2" x 14"), min. A5 (5 1/2" x 8 1/2") |
| Paper capacity (80 g/m ²) | Standard: 600 sheets (500-sheet tray and 100-sheet multi-bypass tray) Maximum: 2,100 sheets |
| Warm-up time*1 | Less than 90 sec. |
| Memory | MX-C381/C380 Copier memory: Standard 512MB Printer memory: Standard 1GB, max. 2GB MX-C311/C310 Copier memory: Standard 512MB Printer memory: Standard 512MB, max. 1.5GB 80GB HDD*2 |
| Power requirements | Rated local AC voltage ±10%, 50/60 Hz |
| Power consumption (max.) | 1.84 kW (220 to 240V), 1.44 kW (110 to 127V) |
| Dimensions (W x D x H) | MX-C381/C311 560 x 493 x 714 mm (22 3/64" x 19 13/32" x 28 7/64") MX-C380/C310 560 x 438 x 714 mm (22 3/64" x 17 1/4" x 28 7/64") Approx. 46 kg (101 lbs.) |
| Weight | Approx. 46 kg (101 lbs.) |
| Features | Document filing, document control, toner save mode, auto calibration, user authentication (1,000 accounts), pre-heat/auto power shut-off modes |

| Copier | |
|---------------------|---|
| Original paper size | Max. A4 (8 1/2" x 14") |
| First copy time*3 | Full colour: 8.9 sec. B/W: 8.0 sec. |
| Continuous copy | Max. 999 copies |
| Resolution | Scan: 600 x 600 dpi, 600 x 300 dpi Print: 1,200 x 1,200 dpi |
| Gradation | Equivalent to 256 levels |
| Zoom range | 50 to 200% in 1% increments |
| Preset copy ratios | Metric: 8 ratios (4R/4E), inch: 6 ratios (3R/3E) |
| Features*4 | Auto paper selection (mixed size feeding [letter/legal only]), auto magnification selection, paper type selection, auto tray switching, rotation copy, electronic sorting, margin shift, multi-shot (2-in-1), transparency insertion, pamphlet copy, 2-sided copy orientation change, XY zoom, B/W reverse, mirror image, duplex copy, job reservation, job programme, image repeat, irregular original/paper size input, stamps (date, page number, text, stamp), centering, proof copy (MX-C381/C311), 3G Sharp auto colour mode, auto colour selection, card shot, edge erase, job build |

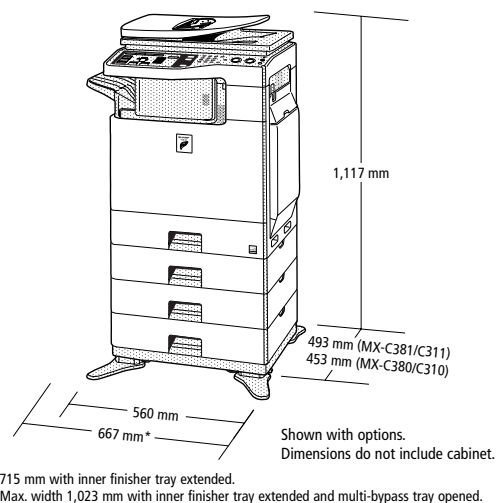
| Network Scanner | |
|-------------------|---|
| Scan method | Push scan (via control panel), pull scan (TWAIN-compliant application) |
| Resolution | Push scan: 100, 200, 300, 400, 600 dpi Pull scan: 75, 100, 150, 200, 300, 400, 600 dpi 50 to 9,600 dpi |
| File formats | TIFF, PDF, encrypted PDF, JPEG (colour only), XPS*5 |
| Scanner utility | Sharpdesk |
| Scan destinations | Scan to e-mail, desktop, FTP server, network folder, USB memory |
| Features | Internet fax*6, PC-Internet fax transmission*6, 3G Sharp auto colour mode, mixed size original scanning (letter/legal only), LDAP support, direct entry (address, subject, message), 999 one-touch dials, 500 group dials, 48 job programmes, broadcasting, long original scanning (max. 500 mm), auto colour selection, card shot, edge erase, job build |

| Document Filing | |
|--------------------------|---|
| Document filing capacity | MX-C381/C311 Main and custom folders: 38GB, 5,500 pages*7 or 3,000 files Quick file folder: 12GB, 1,700 pages*7 or 1,000 files MX-C380/C310 Main folder: 38GB, 5,500 pages*7 or 3,000 files |
| Stored jobs*7 | MX-C381/C311 Copy, print, scan, fax transmission MX-C380/C310 Print |
| Storage folders | MX-C381/C311 Quick file folder, main folder, custom folder (max. 1,000 folders) |
| Confidential storage | MX-C380/C310 Main folder Password protection |

* 1 : At rated voltage, 23°C (73.4°F). *2: HDD capacity depends on procurement and sourcing status.
* 3 : When feeding A4 (8 1/2" x 11") sheets from 1st paper tray, using document glass, without Auto Colour Selection and Auto Colour mode, polygon motor running. *4: Some features require option(s).
* 5 : To view XPS files on PCs not running Windows Vista, you must have the XPS Viewer application installed.
* 6 : Optional MX-FWX1 required.
* 7 : Measured using Sharp's standard chart (A4 with 6% coverage, B/W). The Quick File Folder (MX-C380/C310: Main Folder) shares the HDD with the Job Build function; up to 12GB of data storage is available when using both functions. The storage capacity will be less for colour pages.
* 8 : MX-C380/C310: Optional MX-PKX5 required for Mac OS and EtherTalk.
* 9 : XPS requires optional MX-PUX1 and MX-SMX3. MX-C380/C310: PS requires optional MX-PKX5.
*10 : Some features are not available according to the printer driver used.
*11 : Based on Sharp's standard chart with approx. 700 characters (A4 or 8 1/2" x 11") at standard resolution in Super G3 mode, 33,600 bps, JBIG compression.

| Network Printer | |
|---------------------|--|
| Resolution | 1,200 x 1,200 dpi |
| Interface | USB 2.0 10Base-T/100Base-TX/1000Base-T |
| Supported OS*8 | Windows NT® 4.0 SP5 or later, Windows Server® 2003/2008, Windows® 98/Me/2000/XP, Windows Vista® Mac OS 9.0 to 9.2.2, Mac OS X 10.2.8, 10.3.9, 10.4 to 10.4.11, 10.5 to 10.5.1 |
| Network protocols*8 | TCP/IP (IPv4, IPv6), IPX/SPX (NetWare), NetBEUI, EtherTalk (AppleTalk) |
| Printing protocols | LPR, Raw TCP (port 9100), POP3 (e-mail printing), HTTP, Novell Printserver application with NDS and Bindery, FTP for downloading print files, EtherTalk printing, IPP |
| PDL (emulation) | MX-C381/C311 Standard: PCL 6/5c emulation, PS3 emulation Option: XPS*9 MX-C380/C310 Standard: PCL 6/5c emulation Option*9: XPS, PS3 emulation |
| Available fonts | 80 fonts for PCL, 136 fonts for PS3 emulation |
| Features*4 *10 | RIP Once/Print Many, job retention (print hold, proof print, confidential print), direct PDF/TIFF/JPEG/XPS printing, carbon copy print, duplex print, font/form download, offset output, printer administration utility and status monitor, pamphlet style, IP/MAC address filtering, port/protocol management, binding edge, N-up (2/4/6/8/9/16), paper/output tray selection, cover insertion, transparency interleave, fit to page, watermarks, form overlay, auto configuration, barcode font compatibility, poster print, secure network communications (SSL and IPsec [LPD]) |

| B/W Facsimile (optional MX-FXX3 required) | |
|---|---|
| Compression method | MH/MR/MMR/JBIG |
| Communication protocol | Super G3/G3 |
| Transmission time | Less than 3 seconds*11 |
| Modem speed | 33,600 bps to 2,400 bps with automatic fallback |
| Transmission resolution | From Standard (203.2 x 97.8 dpi) to Super Fine (406.4 x 391 dpi) |
| Recording width | A4 to A5 (8 1/2" x 14" to 5 1/2" x 8 1/2") |
| Memory | 8MB flash memory |
| Grey scale levels | Equivalent to 256 levels |
| Features | Duplex transmission/reception, quick on-line transmission, error correction mode, 999 one-touch dials, 500 group dials, LDAP support, 48 job programmes, broadcasting number registration, F-Code compatibility (confidential, relay broadcast), polling, memory transmission/reception, auto reduction (transmission/reception), rotation transmission/reception, print actual size, long original transmission (max. 500 mm), PC-Fax transmission, timer transmission, inbound routing to e-mail, activity report, anti-junk fax, dual page scan, memory box preview, fax/Internet fax/direct SMTP reception data preview |



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