bizhub C451

KONICA MINOLTA

A4 Monochrome **45** pages/min
A4 **Full Color** **45** pages/min

The essentials of imaging

Step up to the line.

Introducing the new bizhub with InfoLine design.

The new bizhub with InfoLine design embraces bizhub's philosophy of change. The C451 builds on the fundamentals of existing bizhub models to bring you a stylish and technologically superior office tool unlike anything you've seen before. Though evolved from the original bizhub, you can clearly see, the C451 is not just another copy. Powered by its three "Core Elements", Communication Technologies, Design and Engineering and Open Platform, the C451 promises to keep information flowing more easily and seamlessly through your office's network, offer the flexibility you require with your office's existing IT infrastructure and provide a surprisingly elegant design that will surely complement any office décor. In short, the C451 promises to change the way you do business forever.

bizhub
C451

Core Elements

The new bizhub with InfoLine design is distinguished by its three Core Elements. This collection of innovative technologies, intelligent manufacturing and user-centred design work together to help offices work as efficiently and productively as possible.

Open Platform

The proprietary bizhub OP control system provides offices with an unprecedented level of flexibility, allowing the bizhub to adhere, adapt and grow with any IT infrastructure. Principle among bizhub OP's three main features is its Open API (Application Program Interface). This open protocol allows easy customisation and integration with third-party peripherals and applications. The bizhub OP also features the centralised bizhub Architecture, which boosts productivity and security and streamlines your workflow. Thirdly, there's the powerful Emperon Print System which speeds up document output and gives your office a clear and easy-to-use interface.

Communication Technologies

The intelligent technologies of the new bizhub streamline the rapid flow of information within, into and out of your office, allowing you to collaborate more effectively and work smarter. These technologies include improved network security functions, upgrades like IPv6, the latest version Internet protocol, and enhanced fax, e-mail and scanning features to ensure seamless data handling and transmission.

Design and Engineering

Reengineered inside and out, the new bizhub inspires innovation, improves productivity and fosters creativity. At first glance, the bizhub with InfoLine design is distinctively different. But its benefits go much further than its looks. Its signature white line acts as an innate pathway for operational information as well as a striking design element. It also boasts solid construction for years of long life, an improved layout and an innovative user-friendly colour control panel for more intuitive user interaction.

Outline

Communication and Collaboration

– "Next generation" Internet protocol, IPv6
– Scan and Send allows you to scan to FTP, e-mail, SMB and the Box, or perform TWAIN scans.
– Multi-Method Send allows you to send documents to multiple destinations at once.
– Ultra-Compact PDF compresses large, colour files for easy sending.
– The Box makes it easy to catalog, store and share information assets.
– PageScope Box Operator
– IP and Internet fax as well as PC-Fax functions are available.

Security and Management

– User Authentication allows the administrator the ability to set privileges.
– IC Card provides advanced individual user authentication.
– Biometric Finger Vein Authentication
– Copy Protection helps prevent hard copies from being re-copied.
– Department Management features help you manage your costs by controlling C451 use by department.

Productivity and Production

– High-Speed, High-Quality printing: 45 pages per minute colour, 45 pages per minute black & white
– Finishing capabilities and output features include booklet printing, a wide range of paper compatibility, and print status notification.
– New Tandem Engine improves speed while retaining output quality.
– Simitri HD Toner
– New IH Fixing significantly reduces warm up time to best in class.
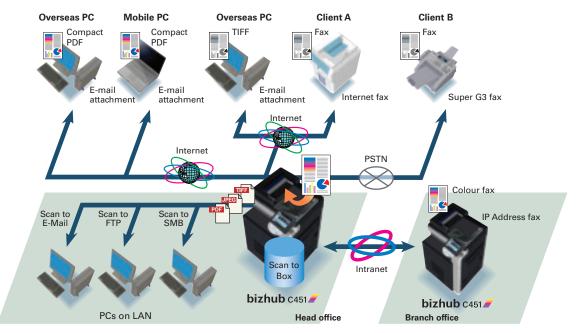– Energy certifications illustrate Konica Minolta's dedication to environmental conservation.

New Design

– New, colour, LCD control panel boasts a more intuitive user interface.
– Stylish InfoLine user-centred design
– Universal Design

Communication
and
Collaboration

A host of scanning features along with the new IPv6 help information move efficiently across your office network as well as the Internet.

Overseas PC — Compact PDF — E-mail attachment
Mobile PC — Compact PDF — E-mail attachment
Overseas PC — TIFF — E-mail attachment
Client A — Fax — Internet fax
Client B — Fax — Super G3 fax

Internet

PSTN

Colour fax
IP Address fax

Scan to E-Mail · Scan to FTP · Scan to SMB

TIFF · JPEG · PDF

Scan to Box

Intranet

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PCs on LAN

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Head office

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Branch office

Scanning and Sending

■ Scan & Send

Share your black & white or colour documents quickly and easily with the C451's scan & send features. Use the Automatic Document Feeder to scan a large number of originals consecutively.

- **Scan to FTP.** Send documents to the FTP server, and then store them in a directory that is easily accessible by all the PCs on the network.
- **Scan to E-mail.** The C451 allows you to scan and then attach documents as PDF, JPEG or TIFF files. You can also easily search and retrieve destination e-mail addresses with the LDAP (Lightweight Directory Access Protocol) server.
- **Scan to SMB.** This function lets you send scanned data directly to a shared folder on a PC.
- **Scan to Box.** Scan and send originals to the Box on the C451's hard disk drive. From the Box, you can then send them to FTP, e-mail or SMB.
- **TWAIN Scan.** Scan over the network from PCs running applications that support TWAIN.
- **Scan to USB.*** You can send scanned data, in PDF, compact PDF, JPEG or TIFF format, to a USB memory device.

*Optional Local Interface Kit EK-603 is required.

■ High-Speed Network Scanner

Quickly scan one document or convert large volumes into electronic data with the high-speed, sheet-through Automatic Document Feeder. Scan colour or black & white originals at 70 pages/min*. The ADF can also handle postcard-size paper and scan both thick and thin paper (35-210g/m^2) at the same speed as plain paper.

*300dpi, A4 Crosswise

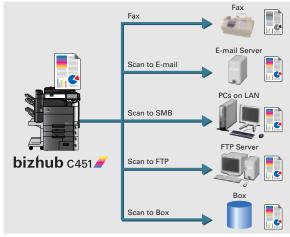## ■ One-Scan ACS/Mixed Original Scanning

The C451 significantly speeds up scanning of mixed size and colour originals by automatically detecting the proper size paper for output and by distinguishing black & white from colour, without pre-scanning.

■ Multi-Method Send

Accomplish more tasks in less time and with less equipment with the C451's Multi-Method Send feature. This feature allows you to send data by fax and e-mail to multiple destinations with a single operation while simultaneously storing a copy of the data in the Box or sending it to SMB or FTP.
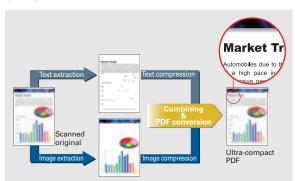

■ XPS Support and DPWS*

To simplify document handling, bizhub provides seamless connectivity with Windows Vista through the Emperon Print System, a native XPS (XML Paper Specification) interpreter. XPS Direct Scan converts scanned documents to XPS format. XPS Direct Print allows easier printing without opening the native application or using the PDL driver. DPWS (Devices Profile for Web Services) simplifies connectivity between Vista and bizhub through features like dynamic discovery and one-click scanning. Linked by DPWS, Windows Vista and bizhub create a powerful combination that supports a wide range of document handling needs.

*An upgrade to the main unit is needed for compatibility with XPS Direct Scan/Direct Print, as well as DPWS. Please contact your service centre for further details.

■ Ultra-Compact PDF

Make large files more portable by shrinking them with our "ultra-compact PDF" feature. The C451 uses lightning-fast hardware and software processes to compress text and images separately, creating PDF files that are now smaller than ever. Perfect for colour documents with large file sizes, these compressed PDFs have outstanding image quality, and are much easier to send and receive.

■ IPv6

Labelled the "next generation" protocol, IPv6 allows you to dramatically expand the number of IP addresses used with your C451. IPv6 solves a number of problems associated with the past standard IPv4, including the limited number of available IPv4 addresses. With IPv6, all devices on the Internet have their own IP addresses, enabling direct communication between devices. IPv6 also helps improve security functions.

■ i-Option*

The new i-Option will expand the possibilities of your bizhub's control panel. This optional feature contains Web browser functions that enable PDF files to be easily previewed, downloaded and printed from the MFP control panel without a PC. i-Option also includes an Image Panel function that divides the control panel into three areas, input, edit and output, and allows intuitive data handling. Finally, i-Option allows the user to add a PDF encryption function using a password or digital signature.
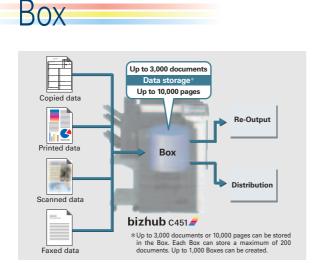
*Optional UK-201 is required.

Web browser function

Communication and Collaboration

Improve the way you share and store knowledge with the C451's state-of-the-art fax features and Box function.

Box

Up to 3,000 documents
Data storage∗
Up to 10,000 pages

Copied data
Printed data
Scanned data
Faxed data

Box

Re-Output
Distribution

bizhub C451

∗ Up to 3,000 documents or 10,000 pages can be stored in the Box. Each Box can store a maximum of 200 documents. Up to 1,000 Boxes can be created.
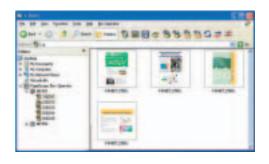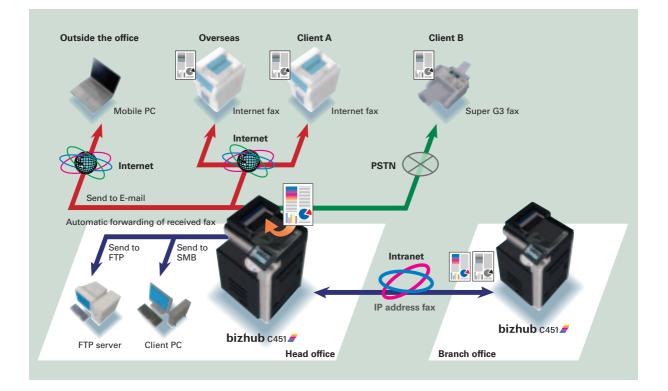
■ Box Function

Store and manage data efficiently on the C451's hard disk drive with our Box function. Assign Boxes to individuals, project teams or departments for more reliable storage (up to 3,000 documents or 10,000 pages), seamless distribution and easier sharing of knowledge. You can also allocate Boxes by theme, project or goals for more flexible data management. And for optimal security, the password authentication function allows you to assign a password to each Box. Once in a Box, stored data can be sent to fax, e-mail, FTP or SMB.

■ PageScope Box Operator

PageScope Box Operator allows you to download and access scanned data stored in a Box directly from your PC. With multi-file preview you can search through thumbnails to find any file easily. Then you can print scanned or faxed data stored in the Box without ever walking away from your PC screen. If you'd like to attach and e-mail a file, you can also convert with this software by turning a PDF, TIFF or JPEG into an ultra-compact PDF.

Outside the office
Overseas
Client A
Client B

Mobile PC
Internet fax
Internet fax
Super G3 fax

Internet

Internet

PSTN

Send to E-mail

Automatic forwarding of received fax

Send to FTP
Send to SMB

Intranet

IP address fax

FTP server
Client PC

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Head office

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Branch office

Fax

■ PC-Fax Function

Send data directly from your PC to an outside fax machine. You can create a cover sheet directly from the driver screen on your PC and attach it to the document. Because there's no need to print before faxing, the C451's PC-Fax saves time and paper, and preserves image quality.

■ IP Address Fax

Send faxes faster and in a more cost efficient manner with bizhub's IP Fax. With IP Address Fax, you can send a colour or black & white fax to any bizhub on the network that supports IP Fax simply by selecting an IP address. No additional costs are associated with this feature because it uses existing network systems.

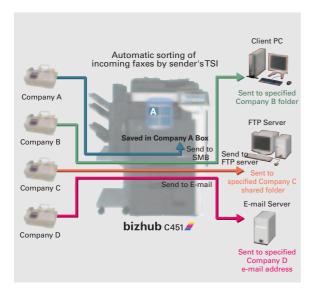＊Optional Fax Kit FK-502 is required.

■ Internet Fax

Send and receive fax data as an e-mail attachment with the C451's Internet Fax. This helps reduce communication costs especially when faxing internationally or to remote areas.

■ TSI Routing

By using TSI (Transmitting Subscriber Identification), faxes can be identified and sorted by whom, or what organisation, sent them. With this TSI information, you can then set up a folder within the Box, which will automatically receive and store all of that party's faxes. The TSI identified data can also be sent separately to an e-mail, FTP or SMB server and be printed at the same time.

■ Fax Security Functions

Avoid fax transmission errors with the C451's fax security functions. Check that you're faxing the correct destination by having the destination name and fax number appear on the control panel before faxing. For even more secure transmissions, the C451 can automatically verify that the destination machine's CSI (Called Subscriber Information) data matches your specified fax number before transmitting.

● Address Registration/ Programmed Transmission

Register up to 2,000 individual and 100 group addresses and fax numbers as well as their respective scan and telecommunication methods, for quick access and easy sending.

● Multi-Port Fax＊ (Optional)

By connecting two telephone lines, data can be sent to two destinations at the same time. Faxes can also be received on one line while the other line is sending.

＊Not applicable when using IP address fax.

● Transmission Result Report

The C451 can print out a fax transmission result report to show a record of your fax transmission(s).

● Tel/Fax Automatic Switching

The C451 lets you share a single line for both telephone and fax use.

Security
and
Management

Keeping your office's network secure and managing the flow of work is of primary importance. The C451 helps with features like IC card and biometric finger vein authentication and software like PageScope Data Administrator.

Security

■ Secure Print

Protect important confidential documents such as job estimates or salary reports by setting a password as a security lock. Protected documents cannot be output until the set password is entered into the C451, ensuring that the documents are opened only by those intended to read them.

Data stored in Secure Print Box
Enter Password
Select
Secure Print
Secure Print Box

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■ User Authentication

With this feature, the administrator can permit or restrict the use of the C451's functions. This system allows the administrator to set privileges for copying, printing, scanning, faxing and Box functions for each individual user with an authentication function based on the Active Directory server. If your network lacks a server, the administrator can use the C451's built-in user authentication function.

■ IC Card Authentication*

The C451's IC card authentication is a perfect option for individual user authentication. Copy, print, scan and fax functions can all be restricted through its use. This quick-response, noncontact IC card supports the widely used Felica smart card system. In the office, Felica cards are traditionally used for company identification purposes, but can now also be repurposed to work directly with the C451. This means you only have to carry one card.

*Optional Authentication Unit AU-201 and Local Interface Kit EK-602 are required.

■ Biometric Finger Vein Authentication*

The cutting edge in biometric authentication, finger vein authentication uses images of finger vein patterns captured by scanning the finger. This measurement uses an internal characteristic as identification, and is nearly impossible to falsify. Functionally, this authentication method is easy and fast, since there's no need to remember passwords or carry a card.
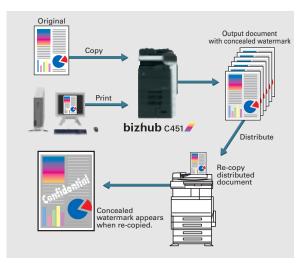
*Optional Authentication Unit AU-101 and Local Interface Kit EK-602 are required.

■ Encrypted PDF

Prevent unauthorised viewing or printing of a scanned paper document by creating an encrypted PDF while you scan. By requiring a password to open the file, access to confidential data is restricted, which helps prevent information leaks.

■ Copy Protection

To prevent unauthorised individuals from re-copying private documents, the C451 offers a selection of concealed watermarks to identify printouts as reprints. The watermark, with messages such as "Confidential", only becomes apparent upon re-copying a printout. There are several watermark phrases or patterns available, or the administrator can create and register a customised mark. This standard feature works when re-copying a document on any brand of MFP.

● Annotation Function

Protect data and manage it by client or production date with the C451's Annotation function. When a document is stored in an Annotation User Box, a pre-set administrator counter number will automatically be printed on the document when retrieved from the Box. This imprinted information deters unauthorised personnel from printing these documents.

● IP Filtering

Prevent unauthorised access to the C451 by registering the IP addresses of those PCs that your company wants to grant access to.

● SSL/TLS Encryption

The SSL/TLS encryption protocol protects data during data exchanges between the C451 and the LDAP server, Pagescope Data Administrator, PageScope Web Connection as well as other programs.

● S/MIME

The C451 uses Secure Multipurpose Internet Mail Extensions (S/MIME), an e-mail encryption standard that protects e-mail exchanges.

● HDD Data Encryption*

Automatically encrypt or decrypt job or settings data as it is written to or read from the hard disk drive.
  *Optional Security Kit SC-503 is required.

● HDD Auto Deletion

The C451 can automatically delete management information or other recoverable data on the hard disk drive, after copying, scanning, printing or faxing by overwriting specially formatted data.

● HDD Lock

A password-protected lock can be applied to the hard disk drive preventing anyone from reading it, even if the drive is removed from the C451.

● Security Log (In development)

Protect confidential information and dissuade unauthorised users. The security log feature allows administrators to manage a detailed log of authentication data, Box access information and executed jobs.

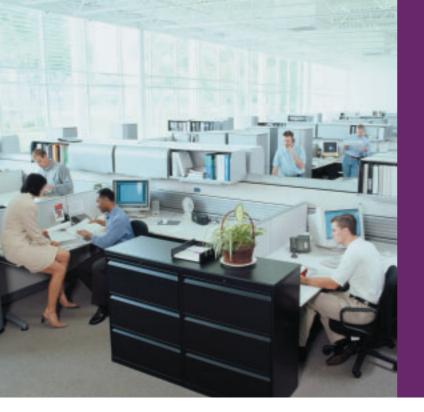# Management

■ Department Management

Better manage your costs by fully understanding and controlling C451 use by department. Choose the functions available as well as the number of pages that can be output by department (up to 1,000). In addition, you can monitor each department's use of copy, print, fax and scan functions. Combine these features with the user authentication function, and you can also set restrictions for individual users.

● PageScope Data Administrator

With this software, administrators can manage user and department authentication data and directory information such as e-mail addresses and fax numbers.

● PageScope Workware (Optional)

Combine data from scanned paper documents and ordinary application files in a single PDF. This software allows you to edit and output from your PC.

Productivity
and
Production

Outstanding colour, faster output time, better networkability and a host of innovative finishing functions. These are the features that make you more productive using the C451.

High Speed, High Quality
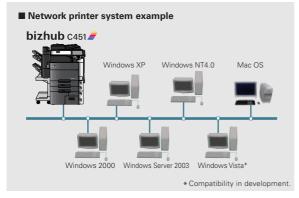
■ High-Speed, High-Quality Printing

The C451 produces presentation-quality outputs quickly and efficiently. It churns out 45 pages per minute of colour pages and 45 pages of black & white. And now, the C451 also boasts some of the fastest first copy times on the market at 4.8 seconds in black & white and a class-leading 6.5 seconds in colour. The C451's superior text reproduction technology achieves low noise and uniform reproduction of both black and colour text and fine lines.

■ Network Printing

Freely print out documents and graphics from a variety of PCs on the network utlising the C451's network printing function with the standard Emperon Print System. For demanding desktop publishing and graphic design needs, the optional Fiery Image Controller* permits printing in a PostScript 3 environment. Multi-OS and multi-protocol support on the C451 allows a wider range of use, including networks with Windows and Macintosh computers.

＊Optional Image Controller IC-409 and Video Interface Kit VI-504 are required.

■ Large-Capacity Paper Supply & Paper Compatibility

The C451 holds up to 3,650 sheets of paper (up to 3,500 sheets of A4 and up to 150 sheets of paper as wide as A3 size in the multiple bypass tray). With the optional Side Paper Deck LU-301 the C451's capacity increases to 6,650 sheets! The C451 handles paper ranging in size from A6 to A3 wide as well as thick paper up to 256g/m^2 or 300g/m^2 from the multiple bypass tray.

■ Network printer system example

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Windows XP   Windows NT4.0   Mac OS

Windows 2000   Windows Server 2003   Windows Vista*

＊Compatibility in development.

⟨Top tray⟩
Max. A3 Wide
500 sheets
(80g/m^2 : A4)

⟨Middle tray⟩
Max. A3 Wide
500 sheets
(80g/m^2 : A4)

⟨Bottom left tray⟩
Max. A4
1,500 sheets
(80g/m^2)

⟨Multiple Bypass tray⟩
(manual feed)
Max. A3 Wide
150 sheets (80g/m^2)

⟨Bottom right tray⟩
Max. A4
1,000 sheets (80g/m^2)

● Improved Multi Job Ability

The C451 can simultaneously handle multiple jobs better than ever—fax and scan, scan and print, print and save to Box or perform a multitude of other combinations.

● Image Stabilisation

We've reduced image stabilisation time, which means that the C451 is more efficient—making you more productive.

● 100% Duplex Productivity

Double-sided colour output doesn't slow down the C451. Achieve a fast 45 pages per minute when outputting double-sided pages thanks to a complex paper feed control system that alternately feeds three sheets at a time. A specially designed roller also helps maintain maximum productivity.

● ADF Dust Reduction

The scanner glass slides back and forth to remove dust from the glass surface. This suppresses streaks during scanning, and improves your output.

● Long paper print capability

With the Multiple Bypass Tray, paper up to 1,200mm in length can be printed. This feature is ideal for creating POP materials.

● ICC Profile Supported*

To meet the colour-management requirements of high-end graphic design and imaging users, the C451 supports ICC (International Color Consortium) profiles that enable more accurate colour matching with monitors and scanners.

＊PostScript driver only.

Finishing

■ Booklet Printing

Create booklets with ease. The C451's pagination function outputs pages in the proper order for producing presentation-quality booklets. Equipped with the optional Finisher FS-519, the C451 can create booklets up to 60 pages in length, handling paper as thick as 209g/m².

■ Versatile Finisher (Optional)

Create professional presentations, attractive manuals, proposals and even direct mail pieces without sending materials to a printer. Combined with the C451, the optional Finisher FS-519 gives you efficient, print-on-demand versatility. This high performance finisher features automatic stapling, hole punching,*[1] 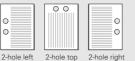saddle stitching,*[2] and many other finishing tasks, allowing you to take on both large and small-volume jobs in-house.

＊[1] Optional Punch Kit PK-510 is required.
＊[2] Optional Saddle Stitcher SD-505 is required.

● Cover Sheet/Inter Sheet

Create more attractive looking booklets. Use paper of different colours or thicknesses for front or rear cover sheets or section dividers.

● Print Status Notification

A pop-up dialog box will appear on the user's PC screen when jobs have finished, paper has run out or when toner is low.

● Confirming Copy/Print Jobs

The C451 lets you output a single test job before making multiple copy or print runs. This saves time and reduces paper and toner waste.

● **Stapling Function**

Corner staple | 2-point staple (Side) | Booklet (Centre staple and folding)

● **Folding Function**

Fold

● **Hole Punching Function**

2-hole left | 2-hole top | 2-hole right

Productivity and Production

For the C451, we've added several advanced technologies to speed up and improve your office's output.
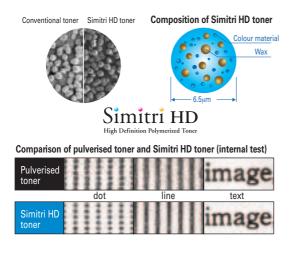
New Production Technologies

■ New Tandem Engine

Our new tandem engine transfers the CMYK colours in just one step, rather than the four steps normally required. This greatly improves the C451's output speed, while maintaining outstanding colour. We've also enlarged the most frequently used photoconductive drum, black (K), thus improving its lifespan.
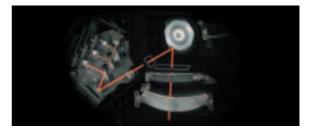
■ Simitri HD Toner

The small size and consistent shape of Simitri HD toner particles ensure sharp reproduction of text as well as line drawings. Its smooth outer surface provides excellent hold and promises high image quality across a diverse media mix. Furthermore, the C451 uses low-temperature fixing to affix the Simitri HD toner. Using less heat saves energy and effectively reduces paper stress.

Conventional toner | Simitri HD toner

Composition of Simitri HD toner

Colour material
Wax
6.5μm

Simitri HD
High Definition Polymerized Toner

Comparison of pulverised toner and Simitri HD toner (internal test)

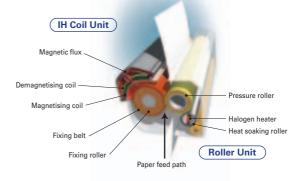| Pulverised toner			image
	dot	line	text
Simitri HD toner			image

■ New Twin-Beam Laser Printhead

The C451's new twin-beam laser printhead helps achieve high output speed and a compact footprint. Thanks to a new automatic skew-correction mechanism, the new printhead also improves image quality and reduces colour-shift.

■ IH Fixing

The C451 uses new IH (induction heating) fixing technology in its belt-driven fixing unit. This technology heats the roller's surface only, rather than the entire roller, thus reducing energy consumption. Together with the low-temperature fixing, Simitri HD toner, this technology works to significantly reduce warm-up time.

IH Coil Unit

Magnetic flux
Demagnetising coil
Magnetising coil
Fixing belt
Fixing roller
Paper feed path
Pressure roller
Halogen heater
Heat soaking roller
Roller Unit

Environmental Conservation

Konica Minolta's commitment to the environment is driven by the cutting-edge technologies that earn the C451 various energy certifications.

Energy Star

The C451 utilises technologies including IH fixing and a high-efficiency supply circuit. These help the C451 to maintain kilowatt hour usage far below the new (April 2007) maximum weekly consumption limit outlined in the Energy Star program's rigorous international guidelines for energy efficient products. And it does so without sacrificing features or performance.

Blue Angel Mark (BAM)*

According to Konica Minolta, the C451 is set to exceed the standards and guidelines set forth by Germany's Blue Angel Mark (BAM2004) for efficiency and environmental responsibility. Konica Minolta estimates that the C451 will be the only MFP in its class to meet BAM's most stringent guideline "time to recover from sleep mode." The C451 wakes up in a lightning-quick 30 seconds.

∗Official Blue Angel Mark approval is pending.

RoHS Compliance

The C451 was built in compliance with the European Union's RoHS (Restriction of Hazardous Substances) guidelines. RoHS restricts certain harmful substances, including lead, mercury, cadmium, hexavalent chromium, PBB and PBDE from being used during the production of electrical and electronic components.

New Design

The minimalist approach of the C451's InfoLine design ensures that information is easy to find, convenient to access and intuitive to use.

■ Colour, LCD Control Panel

At the intersection of the bizhub's distinctive white lines lies its unique colour control panel. The user interface of this panel boasts an 800 x 480 pixel, colour, touch-screen, LCD display, and the ability to enlarge text. For easier document viewing, colour previews of copied or scanned images can be shown on the display as thumbnails. The entire panel can also be tilted 22 degrees up and down in 3 stages as well as 30 degrees left and right, making it accessible to just about anyone. Finally, two distinct basic screens are available, allowing you to interface with the C451's controls as you wish.

Basic Screen

Thumbnail Screen

Print Preview Screen

■ Styling and Colour

As smart outside as it is on the inside. To create an MFP that is at home in a high-designed office as it is in a conventionally designed one, we gave the C451 a unique black body, interrupted only by a single white line (the InfoLine) traversing its length and width. The white line contains LEDs alerting you to current machine status. A blue LED, easily identified even by those with colour recognition problems, indicates printing and data reception status. The red LED indicates various alerts, including paper tray depletion.

■ Universal Design

The C451 was designed to insure that anyone, regardless of age, gender, body size, or disability could comfortably use the C451. Specifically, the C451 provides a clear, easy to read control panel, trouble-free access to paper and toner and easy-grip trays.

bizhub C451 Specifications

Type		Console
Colour Support		Full-Colour
Copy Resolution	Scan	600dpi
	Print	1,800dpi equivalent × 600dpi
Gradation		256
Memory Capacity (Std/Max)		1GB
HDD		60GB (Standard)
Original Type		Sheets, Books, Objects (Max. 2kg)
Max. Original Size		A3
Max. Paper Size		A3 Wide (12 1/4" × 18")
Output Size		A3SEF–A5, B6SEF, A3 Wide (311×457mm), A6SEF Thick Paper, Postcard (100×148mm) Long Paper:210×458–297×1,200mm (127–210g/m²)
Image Loss		Top: 4.2mm or less, Bottom: 3mm or less, Sides: 3mm or less
Warm-Up Time (time from when sub-power is turned on)		30 sec. or less
First Copy Time (23°C, std. voltage)	Colour	6.5 sec. or less
	B/W	4.8 sec. or less
Copy Speed	Colour	45 ppm
	B/W	45 ppm
Copy Magnification	Fixed Same Magnification	1:1±0.5% or less
	Scaling Up	1:1.154/1.224/1.414/2.000
	Scaling Down	1:0.866/0.816/0.707/0.500
	Preset	3 custom settings
	Zoom	25–400% (in 0.1% increments)
Paper Capacity (80g/m² paper)	Std.	500 sheets (Top Tray), 500 sheets (Middle Tray), 1,500 sheets (Bottom Left Tray), 1,000 sheets (Bottom Right Tray), 150 sheets (Multiple Bypass Tray)
Paper Weight		Top Tray, Middle Tray, Bottom Tray: 64–256g/m² Multiple Bypass Tray: 64–300g/m²
Multiple Copy		1–9,999 sheets
Power Requirements		AC220-240V 10A (50Hz)
Max. Power Consumption		2.0kW or less
Dimensions [W] x [D] x [H]		650mm × 904mm × 1,155mm
Weight		Approx. 190kg
Space Requirements [W] × [D]		1,150mm × 1,358mm *Multiple Bypass Tray opened

Printer Specifications (Standard)

Type		Embedded
CPU		MPC7448 867MHz (Shared with copier)
Memory		1GB (Shared with copier)
Print Speed		Same as Copy Speed (when using the same original)
HDD		60GB (Shared with copier)
Print Resolution		1,800dpi equivalent × 600dpi
PDL		PCL6, PostScript3 Emulation
Protocol		TCP/IP, IPX/SPX (NDS), SMB (Net BEUI), LPD, IPP1.1, SNMP, HTTP
Support OS		Windows NT4.0 SP6/2000, SP3/XP/XP64bit/Server2003/ Server2003 64bit/Vista(compatibility in development) or later, MacOS 9.2(PPD)/X 10.2,3,4/10.4 Intel or later, Unix/Linux
Font	PCL	80 fonts
	PS	137 fonts
Interface (Standard)		10BASE-T/100BASE-TX/1000BASE-T, Hi-Speed USB

Scanning Function Specifications (Standard)

Type		Full-Colour Scanner
Scanning Size		Max. A3
Scanning Resolution		600/400/300/200dpi
Scanning Speed	B/W / Colour	70/70 (300dpi), 55/50 (600dpi)
Main Functions		Scan to E-Mail, Scan to FTP, Scan to Box, Scan to SMB, TWAIN
Interface		10BASE-T/100BASE-TX/1000BASE-T
Protocol		TCP/IP (FTP, SMB, SMTP)
Support OS		Windows 2000, Windows XP
Output Format		Single TIFF, Multi TIFF, JPEG, PDF, Compact PDF
Driver		TWAIN (2000/XP/XP64bit or later)

Internet Fax Function Specifications

Protocol	SMTP, POP
Connection Mode	Full-Mode
Sending Paper Size	Max. A3 (Long Length Support: Max. 1,000mm)
Recording Paper Size	Max. A3
Interface	Ethernet 10BASE-T/100BASE-TX/1000BASE-T
Resolution	200×100dpi, 200×200dpi , 400×400dpi, 600×600dpi
Data Format	TIFF, JPEG, PDF, Compact PDF

Fax Function Specifications (Optional)

Send Size	Max. A3 (Long Length Max.1,000mm)
Record Size	Max. A3 (Long Length Record Max.1,000mm - following the page division)
Communication Standard	Super G3
Line Density	G3: 8×3.85, 8×7.7, 8×15.4, 16×15.4 line/mm, 200×200dpi, 400×400dpi, 600×600dpi
Communication Time	Less than 3 sec. (V.34, JBIG)
Communication Speed	2.4kbps-33.6kbps
Compression	MH/MR/MMR/JBIG
Communication Line	Public Phone Line, Fax Communication Line
Scanning Speed	2.0 sec (A4/detailed mode)
Shortcut Dial	2,000
Program	400
Group	100

Fiery Image Controller Specifications (Optional)

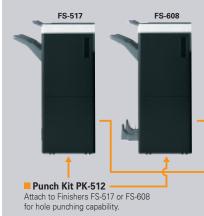|	
Type	Embedded Type
CPU	Intel Celeron 2.8GHz
Memory	512MB
HDD	80GB
Print Speed	Same as Copy Speed (when using the same original)
Resolution	1,800dpi equivalent × 600dpi
PDL	Adobe PostScript3 ver.3017, PCL6
Protocol	TCP/IP(Port9100, LPD, HTTP/HTTPS, SNMP), IPX/SPX, SMB, Ethertalk
Support OS	Windows 2000/XP/Server 2003, Mac X(10.3.9/10.4)
Std. Fonts	136 fonts
Interface	10BASE-T/100BASE-TX/1000BASE-T

System Options

Finisher FS-517
This reliable and speedy finisher allows you to sort and multi-staple sets of up to 50 sheets.

Finisher FS-608
This finisher performs the same functions as the FS-517 and it gives you the ability to saddle stitch up to 20 sets of booklets at once.

FS-517   FS-608

Punch Kit PK-512
Attach to Finishers FS-517 or FS-608 for hole punching capability.

Output Tray OT-503

Job Separator JS-504
Separates and designates location for output. (Upper tray: print/fax; lower tray: copy)

Mailbin Kit MT-502
Attaches to the FS-519 for feeding output into specified bins.

Saddle Stitcher SD-505
Attaches to the FS-519 for centre stapling and folding.

Output Tray OT-602
Attaches to the FS-519 for increased sorting options.

Punch Kit PK-510
Attach to Finisher FS-519 for hole punching capability.

Finisher FS-519
This reliable and speedy finisher allows you to sort and multi-staple sets of up to 50 sheets.

Fax Kit FK-502
Allows the C451 to perform fax functions.

Image Controller IC-409

Video Interface Kit VI-504

Local Interface Kit EK-603 (USB Host)

Working Table WT-502

Side Paper Deck LU-301
Increases the C451's paper capacity by 3,000 sheets (A4, 80g/m²).

Konica Minolta copiers and multi-functional peripherals are designed with the environment in mind.

■ Have Earned ENERGY STAR for Energy Efficiency
■ The Use of Recycled Materials
■ Production at ISO-Certified Factories

This product has earned the ENERGY STAR for energy efficiency. ENERGY STAR is a U.S. registered mark.

ISO15408 (EAL Level 3) Certification

This product complies with the security requirements of ISO15408 (EAL Level 3).
* The ISO 15408 certification applies only to IT security capabilities. This certification is NOT a product guarantee.

⚠ Requirements for safe use
• Please read and follow the instruction manual to ensure safe operation.
• Only operate using appropriate power supply and voltage.
• Connecting the earth wire to an inappropriate place may cause explosion or electric shock. Please connect accordingly (Taiwan and the Philippines only).

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