



KONICA MINOLTA

The essentials of imaging



bizhub C451

Well-balanced in colour and b/w

Office system bizhub C451

bizhub C451, office system



Perfect balance in the office

Konica Minolta's new bizhub C451 offers the perfect balance of colour and black & white imaging for the office! In this stylishly designed multifunctional in- and output device Konica Minolta has combined the proven bizhub technology with latest innovations to make available a cutting-edge communication tool for just about any imaginable office application.

■ With its identical speed of 45 pages per minute in colour and b/w and an impressive array of features the bizhub C451 integrates the merits of a productive colour device with those of a versatile and flexible b/w multifunctional. Advanced print, scan, Box and other networking functions make it equally suitable for creative marketing and sales applications, as well as the essential information processing required for example in the controlling or logistics environment.

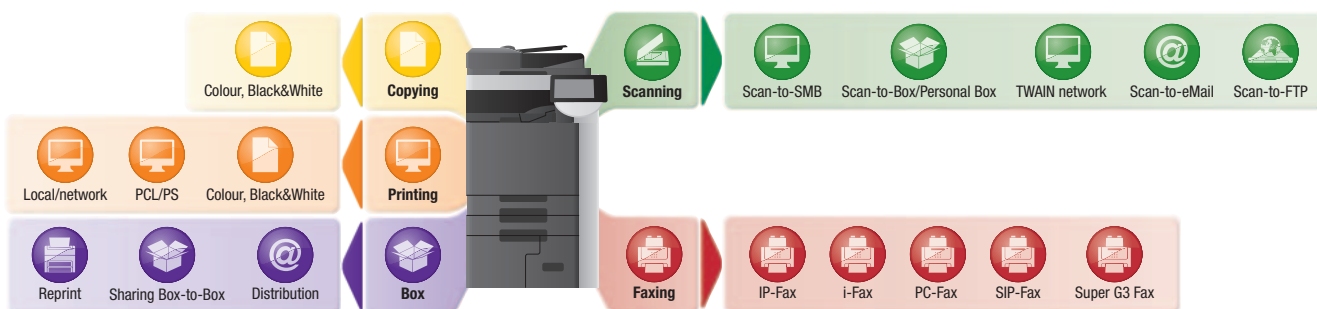
■ Incorporating cutting-edge technology such as the tandem engine, dual-beam laser imaging and induction heating fusing, the bizhub C451 guarantees highest precision, impressive media flexibility and unparalleled energy efficiency. Its

superior print quality is ensured with the use of Konica Minolta's new-generation Simitri® HD polymerised toner.

■ Innovative security features, including revolutionary finger-vein authentication and a non-contact IC card reader option, keep critical information safe on the bizhub C451. And a generous range of software tools and utilities enables comprehensive device management, much facilitating the administrator's complex tasks.

Whether the demand is for colour, black & white or both – the bizhub C451 provides the perfect answer to the varied requirements of busy offices everywhere.

→ Workflow options



Creative office colour

Ensuring perfect colour balance in the creative office, the bizhub C451 gives all types of colour documents a welcome boost! Its performance is spot-on, with a newly developed engine that raises colour productivity, and consistently stable colour reproduction. Konica Minolta's cutting-edge MFP technology includes these major highlights:

→ Simitri HD® polymerised toner

With tiny, uniformly shaped toner particles Konica Minolta's proprietary Simitri® HD toner achieves an outstanding image quality. Razor-sharp text and lines, a smooth and highly durable print finish, and an unparalleled colour fade resistance ensure longer-lasting prints of better quality than ever. Perfect for professional materials like mailings and leaflets the print surface doesn't break or peel on folded pages. And thanks to the high-quality low-gloss surface hand-writing is possible on any document.

→ Next-generation Emperon™ controller

Konica Minolta's proprietary Emperon™ controller technology is an integral part of the overall system architecture and ensures the bizhub C451's seamless integration into almost any network environment. With its Windows, Mac, UNIX, Linux and Citrix support the Emperon is compatible with any office infrastructure, providing impressive levels of productivity and performance power.

→ Configurations



→ Comprehensive colour management

The Emperon™ controller includes a highly efficient automated colour management for routine tasks. ICC profiles are easily uploaded and taken advantage of, streamlining colour reproduction and providing more exact colour output. In addition, the optional IC-409 Fiery controller makes available a range of flexible colour management tools that give professional users plenty of room for their creativity promising individual results.

→ Induction heating fusing technology

A true innovation, the induction heating fusing technology on the bizhub C451 minimises energy consumption and maximises energy efficiency. Thanks to instant heat, induction heating enables fusing at a lower temperature. While the fusing accuracy is thus maintained, the range of media that can be processed is much enhanced, covering paper of up to 300 gsm.

→ 100% duplex productivity

Thanks to a newly designed duplex mechanism that incorporates a special reversing roller system, the bizhub C451 is one of the first colour MFPs to achieve 100% productivity for double-sided printing and copying, enabling the speedy production of flyers, leaflets and any other duplex-printed document.

bizhub C451 

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Truly competitive in black & white

Although a fully-fledged colour MFP, the bizhub C451 can certainly compete with black & white devices when producing b/w output. A very affordable price for b/w prints and copies makes the bizhub C451 so attractive for all those every-day office jobs that don't need colour. At the same time its comprehensive scan, fax, box, printing and finishing functionalities streamline office communication, ensuring highest levels of efficiency and convenience.

➔ Affordable and easy to use

Offering a special b/w mode, the bizhub C451 will continue to produce even if the colour toner is depleted. This is just one aspect of the generous bizhub user convenience to ensure that every-day office tasks are accomplished quickly and without hassle. Also part of this is Konica Minolta's universal design concept ensuring the simple and straightforward use of the bizhub C451. For example its large full-colour touch-screen display can be tilted and turned to guarantee excellent visibility from any angle.

➔ Compact and versatile finishing

Conveniently compact, the modular optional finisher further enhances the bizhub C451's versatile capabilities. The staple finisher integrates fully into the machine body keeping the footprint small. Upgrades to the finisher include a booklet option to produce complete centre-stapled and folded booklets, a mailbin unit and a punching kit. Whether various users printing to the bizhub C451 each have a dedicated mailbin for their output, or the minutes of yesterday's meeting need to be produced as a stapled report in an instant – the bizhub C451 does it all in its stride!

➔ Finishing options



corner
stapling



2-point
stapling



duplex



combined
mixplex/
mixmedia



sheet insertion,
report



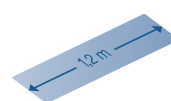
letter fold



booklet



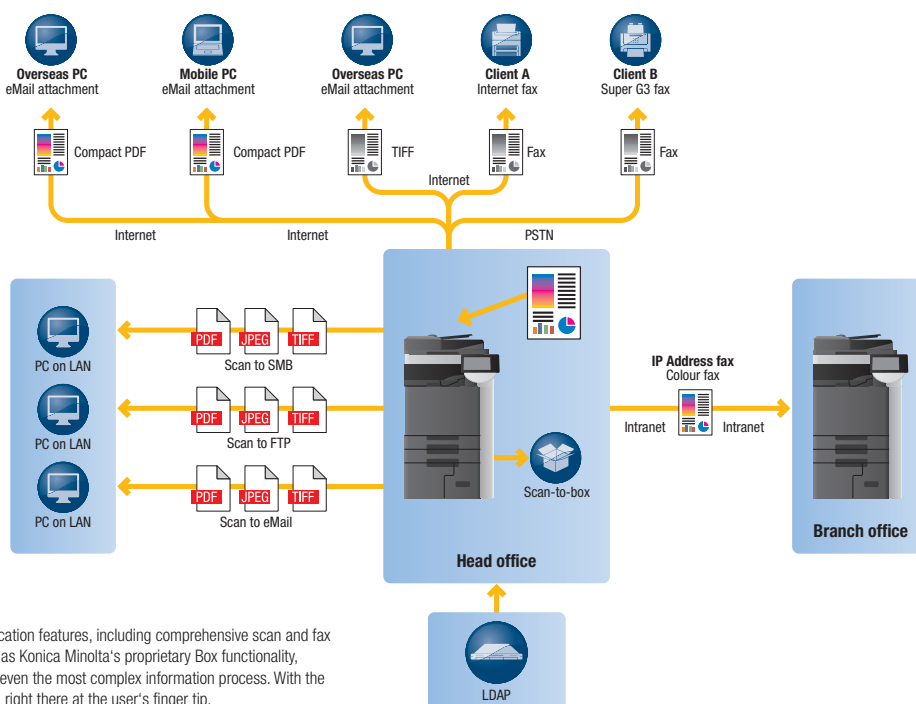
offset sorting



banner
printing



→ Comprehensive communication



→ Advanced fax functionality

With its comprehensive digital fax functionality the bizhub C451 is ideally equipped for sophisticated fax communication. Available are Digital Fax and Digital Store, including forward as eMail, save-to-box, save-to-PC. Internet Fax enables the sending and receipt of fax data as eMail attachments. With IP-Fax it's possible to send faxes in colour to other bizhub devices on the intranet. In addition the bizhub C451 offers various features to make fax communication more secure. Last but not least, traditional fax transmission and receipt of paper originals are of course also possible with the bizhub C451.

→ Unique Box feature

The bizhub C451's elaborate Box functionality facilitates the efficient storing and managing of information on the internal hard disc. Konica Minolta's User Box approach allows the creation of up to 1,000 boxes with flexible access rights. Each Box can have a password assigned and be individually defined as private, public or for group use – perfect e.g. for the convenient sharing of documents within the team or department. With the PageScope Box Operator software data stored in a Box can be downloaded and accessed directly from the PC, while multi-file preview allows fast searches through thumbnails to find files quicker and more easily.

→ Enhanced scanning capabilities

Nowadays office communication depends on a flexible scanning functionality to streamline the distribution and sharing of information. The bizhub C451 provides scan-to-eMail, -FTP, -SMB and -Box functions, with scan formats including multi-page PDF, JPG and TIFF. In addition Konica Minolta's unique ultra-compact PDF feature is especially attractive as it considerably reduces the size of large files before transmission – ideal for example for the company-internal communication and fast sharing of information.



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Invisible competence for complete office efficiency

The bizhub C451 integrates seamlessly into any office infrastructure and workflow. Its advanced communication capabilities and the unique bizhub Open Platform streamline and speed up the information flow in busy offices and provide the pace and flexibility users are looking for. Administrators appreciate the comprehensive support to access, manage and control this and other devices on the company network.



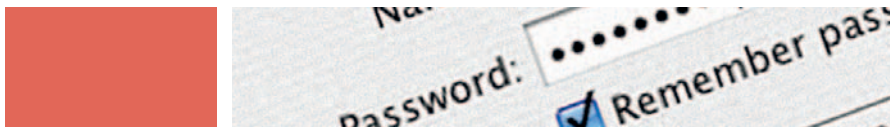
All-round security

The bizhub C451 comes with a comprehensive range of security features, including access security by authentication, and is of course certified to ISO 15408 EAL3.

- A true innovation is the biometric authentication option on the bizhub C451: Finger vein authentication works with images of finger vein patterns captured by scanning the finger – this is highly secure as it's virtually impossible to falsify! And as users no longer need to remember passwords, this biometric measurement is very fast and convenient. Alternatively, authentication by non-contact IC card is also available.
- Other important security features include secure printing, ensuring that a print job is only processed once the user has entered his individual password directly at the bizhub C451, so that confidential

documents are not left lying around. PDF encryption prevents the unauthorised tampering with PDF data. With encrypted communication (SSL) confidential data are useless if intercepted during transmission. Encryption is also available to make data storage on the bizhub C451's internal hard disc secure.





→ Effective administration tools

Highly welcome by IT administrators, the bizhub C451 incorporates the PageScope Suite of administrator tools. This generous feature set helps to automate set-up procedures, streamlines network integration and provides reliable status monitoring as well as comprehensive device management.

- PageScope Netcare satisfies important administrator demands, providing fast access and simple monitoring of individual or all devices on the network.
- Automatic eMail notifications alert users to the status of each device, enabling immediate attention to any problem and maximizing the uptime of all monitored equipment.
- The PageScope Data Administrator is synonymous for comprehensive account and data management. It streamlines the integration of new equipment into existing workflows and simplifies the programming of eMail addresses. Authentication and account data can be individually programmed per user, including e.g. limited access rights to specific functions such as colour printing. With that the Data Administrator also helps to cut costs and control output volumes.
- With the "next generation" protocol IPv6, all devices on the Internet have their own IP addresses, enabling direct communication between devices. The new IPv6 considerably increases the number of IP addresses supported from bizhub devices. Additionally, IPv6 includes full support of IPsec, providing a much extended security functionality.

→ CS Remote Care remote diagnostic system

Providing pro-active and highly flexible service support, CS Remote Care helps to keep output devices running smoothly, minimising interruptions and maximising system availability. All relevant system data are transmitted directly to the Konica Minolta service in an automated process that never needs user intervention.

Konica Minolta is always committed to advancing office communication. With the bizhub C451 the perfect balance of colour and black & white imaging for the office is now available.

→ PageScope Web Connection

Accessed via a standard web browser, this helpful web-based utility facilitates device monitoring. Users can call up details on the device status, check paper and toner, control and change settings – all with simple point-and-click action.





KONICA MINOLTA

Simitri HD

High Definition Polymerised Toner



Technical specifications

Copier specifications

Copying process

Electrostatic laser copy
Tandem, indirect

Toner system

Simitri® HD polymerised toner

Copy/print speed A4

Colour up to 45 ppm
Mono up to 45 ppm

Copy/print speed A3

Colour up to 23 ppm
Mono up to 23 ppm

1st Copy/print time

Colour 6.5 sec. (A4)
Mono 4.8 sec. (A4)

Warm-up time

Approx. 85 sec.

Copy resolution

600 x 600 dpi

Gradation

256 gradations

Multi-copy

1–9,999,
interruption mode

Original format

A5–A3

Magnification

25–400% in 0.1% steps
Autozooming

Copy functions

Chapter, cover and page insertion
Proof copy, Adjustment test print
Digital art, Job Recall, Job setting memory,
Poster Mode, Overlay, Stamping,
Copy Protection

Printer specifications

Print resolution

Equivalent to 1,800 x 600 dpi

Controller CPU

PowerPC MC7448 @ 867 MHz
64 BIT

Page description language

PCL 6c (PCL 5c + XL3.0)
PostScript 3

Operating systems

Windows 2000/XP/XP64
Windows VISTA 32/64 (under development)
Macintosh 9.x/10.x
SERN 2000/2003/2003 x64
Unix/Linux/Citrix

Print functions

Direct print of PCL, PS; TIFF, PDF and
Encrypted PDF files
Mixmedia and mixplex
Job programming „Easy Set“
Overlay, Watermark, Copy Protection

Scanner specifications

Scan speed

Colour up to 70 opm (300 dpi via DF)
Mono up to 70 opm (300 dpi via DF)

Scan resolution

Max.: 600 x 600 dpi

Scan modes

Network TWAIN scan
Scan-to-eMail
Scan-to-FTP
Scan-to-SMB
Scan-to-Box

File formats

JPEG, TIFF, PDF, Compact PDF,
Encrypted PDF

Scan destinations

2,100 (single + group), LDAP support

Scan functions

Annotation (text/time/date) for PDF
Up to 400 job programs

Fax specifications

Fax standard

Super G3 (optional)

Fax transmission

Analogue, i-Fax, IP-Fax, SIP-Fax

Fax resolution

Max.: 600 x 600 dpi (ultra-fine)

Fax compression

MH, MR, MMH, JBIG

Fax modem

Up to 33.6 Kbps

Fax destinations

2,100 (single + group)

Fax functions

Polling, Time shift, PC-Fax
Receipt to confidential box
Receipt to eMail, FTP, SMB

System specifications

System memory

1,024 MB

System hard disc

60 GB

Interface

10-Base-T/100-Base-T/1,000-Base-T
Ethernet
USB 2.0

Automatic document feeder

Up to 100 originals

Paper size

A6–A3 full bleed
Customised paper sizes
Banner paper max. 1,200 x 297 mm

Paper weight

64–300 gsm

Paper input capacity

Standard: 3,650 sheets
Max.: 6,650 sheets

Paper output capacity

Max.: 1,200 sheets

Automatic duplexing

A5–A3 full bleed
64–256 gsm

Finishing modes (optional)

Offset, group, sort, staple, punch,
centre-fold, booklet

Copy/print volume (monthly)

Recommended: 60,000
Max.: 100,000

Power consumption

220–240 V / 50/60Hz
Less than 2.0 KW (system)

System dimensions (W x D x H, mm)

650 x 777 x 1,150

System weight

Approx. 190 kg

System features

Security

ISO 15408 EAL3 (in evaluation)

Accounting

Up to 1,000 user accounts
Active Directory support
(user name + password)
User function access definition
Biometric authentication (finger vein)
optional
IC-Card authentication
(IC-Card reader) optional

Software

PageScope NetCare
PageScope Data Administrator
PageScope Box Operator
PageScope Workware (Trial)
Direct Print Utility
Print Status Notifier
Log Management Utility
Driver Packaging Utility

All specifications relating to paper capacity refer to A4-size paper of 80 gsm quality.

All specifications relating to scanning, copying or printing speeds refer to A4-size paper that is scanned, copied or printed crosswise in multipage, simplex mode.

Some of the product illustrations contain optional accessories.

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Your Konica Minolta Business Solutions Partner:

Konica Minolta
Business Solutions Europe GmbH
Europaallee 17
30855 Langenhagen • Germany
Tel.: +49 (0) 511 74 04-0
Fax: +49 (0) 511 74 10 50
www.konicaminolta.eu