



**bizhub C25** 

**Controller & Fax Technical Training Course**

Welcome to the **bizhub C25** Web Based Technical Training Course. This course will cover all ten lessons regarding the controller & fax portion of the bizhub C25.

*Please take the test after completing this course.*

 To download these files, you must have [Adobe Acrobat](#) installed on your computer.

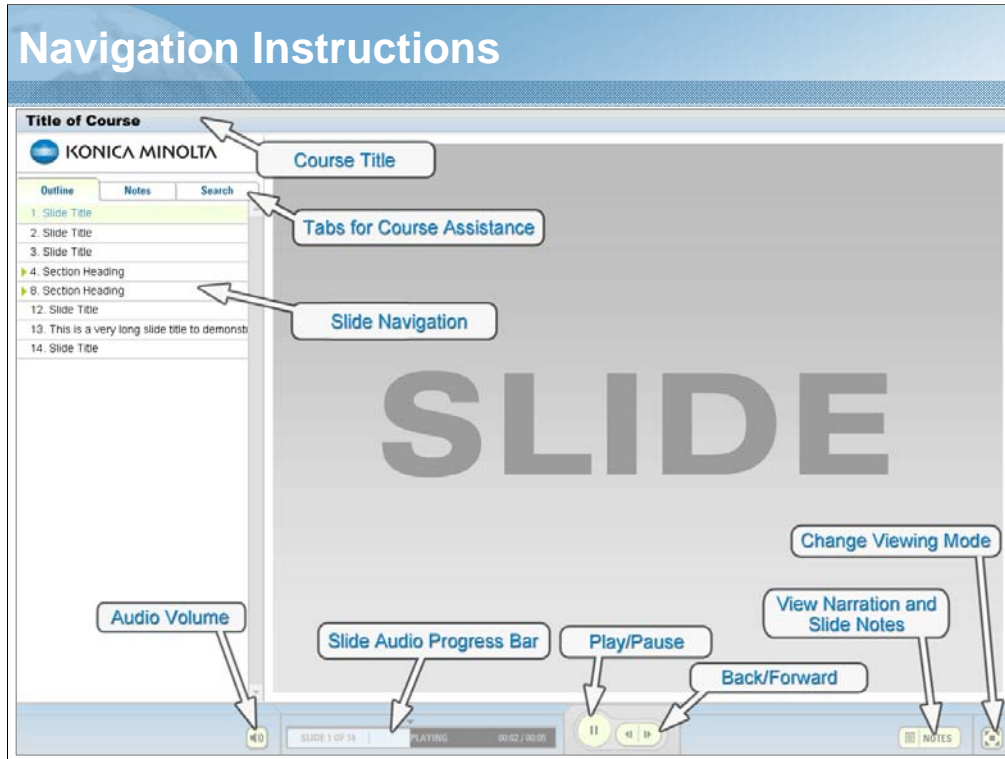
[Course Workbook \(5.04 mb\)](#) 

[Course Workbook \(4.05 mb\)](#) 

*Complete Version 1.0*



NARRATION: Welcome to the bizhub C25 Web Based Technical Training Course. This course will cover all ten lessons regarding the controller and fax portion of the bizhub C25. Please take the test after completing this course.



NARRATION: This screen provides an overview on how to navigate through this course.

## Course Objectives



In this course you should be able to:

- 1) Describe the product overview of controller functions such as the controller specifications and the control panel.
- 2) Describe the PageScope Web Connection functions such as the login method and the setting items.
- 3) Describe the copy functions such as the copy settings and the convenient functions.
- 4) Describe the print functions such as printer driver settings and network printing.
- 5) Describe the scan functions such as the application scanning and the machine scanning.
- 6) Describe the fax functions such as the G3 fax and the PC fax.
- 7) Describe the user authentication such as the overview and user authentication settings.
- 8) Describe the security functions such as SSL/TLS, IPsec, IP address filtering, and IEEE802.1x.
- 9) Describe the application such as LinkMagic and Local Setup Utility.
- 10) Describe the maintenance such as the HDD/card format and the firmware Upgrade.



NARRATION: In this course, you should be able to complete the following items.

## Lesson 1: Product Overview

### Lesson 1

Topics covered in the lesson include:

- 1.1 Controller Specifications
- 1.2 Installations
- 1.3 Bundled CD/DVDs
- 1.4 Interface
- 1.5 Control Panel
- 1.6 Initial Network Settings
- 1.7 Lesson 1 Review

NARRATION: The following “product overview” topics will be covered in this lesson.

## 1.1 Controller Specifications [1/2]

|                                   |                 | bizhub C20  | bizhub C25  | bizhub C35  |
|-----------------------------------|-----------------|---|---|---|
| <b>Memory</b>                     | <b>Standard</b> | Copier: 256 MB<br>Printer: 512 MB   | Copier: 128 MB<br>Printer: 256 MB   | 1536 MB   |
|                                   | <b>Optional</b> | 256 MB, 512 MB DIMM   | 512 MB DIMM   | -   |
| <b>Hard Disk</b>                  | <b>Standard</b> | -   | -   | 120 GB (IF:SATA)  |
|                                   | <b>Optional</b> | 40 GB   | HD-P03; Area of use : 40 GB (IF:SATA)   | -   |
| <b>Optional CompactFlash Card</b> |                 | 512 MB, 1 GB, 2 GB, 4 GB  | MK-725; 1 GB, 2 GB, 4 GB, 8 GB  | -   |
| <b>Page Description Language</b>  |                 | PostScript3 (3016), PCL6 (XL3.0), PCL 5e/c, XPS (Version 1.0), PDF Direct Printing (Version 1.6), JPEG/TIFF Direct Print  | PostScript3 (3016), PCL6 (XL3.0), PCL 5e/c, XPS (Version 1.0), PDF Direct Printing (Version 1.7), JPEG/TIFF Direct Print  | PostScript3 (3016), PCL6 (XL3.0), PCL 5e/c, XPS (Version 1.0), PDF Direct Printing (Version 1.7), JPEG/TIFF Direct Print  |
| <b>Network Protocol</b>           |                 | TCP/IP (IPP 1.1, LPD, FTP (client/server), DHCP, SNMP v1/v2c/v3, BootP, ARP, HTTP v1.1, HTTPS, SMTP, SLP v2, DNS, DDNS, WSD Print, TCPIP Socket printing, Bonjour, AutoIP, Ping, IPv4, IPv6, IPsec, POP3, LDAP v3), EtherTalk, IPX/SPX, UDP | TCP/IP (IPP 1.1, LPD, FTP (client/server), DHCP, SNMP v1/v2c/v3, BootP, ARP, HTTP v1.1, HTTPS, SMTP v1, SNTP, SLP v2, DDNS, WSD Print, TCPIP Socket printing, AutoIP, Ping, IPv4, IPv6, IPsec, NetBIOS over SMB, Direct Hosting SMB, POP, DHCPv6, LLMNR, LDAP, LLTD), EtherTalk, IPX/SPX, UDP | TCP/IP (IPP 1.1, LPD, FTP (client/server), DHCP, SNMP v1/v2c/v3, BootP, ARP, HTTP v1.1, HTTPS, SMTP v1, SNTP, SLP v2, DDNS, WSD Print, TCPIP Socket printing, AutoIP, Ping, IPv4, IPv6, IPsec, NetBIOS over SMB, Direct Hosting SMB, WebDAV, POP, WSD Scan, DHCPv6, LLMNR, LDAP, TCP/IP Socket IF), EtherTalk, IPX/SPX, UDP |




NARRATION: These are the controller's main specifications. This list identifies differences from existing products.

## 1.1 Controller Specifications [2/2]

|                        | bizhub C20  | bizhub C25  | bizhub C35  |
|------------------------|---|---|---|
| <b>Network Service</b> | IPP 1.1, SNMP, HTTP, HTTPS (PSWC only), WSD,  | IPP 1.1, SNMP, HTTP, HTTPS, WSD, IEEE 802.1x  | IPP 1.1, SNMP, HTTP, HTTPS, WSD, IEEE 802.1x  |
| <b>Interface</b>       | <ul style="list-style-type: none"> <li>▪ USB 2.0 (High-Speed) compliant</li> <li>▪ 10Base-T/100Base-TX/1000Base-T Ethernet</li> <li>▪ USB HOST (Camera Direct/Memory Direct Printing, Scan to USB Memory)</li> </ul>  | <ul style="list-style-type: none"> <li>▪ USB 2.0 (High-Speed) compliant</li> <li>▪ 10Base-T/100Base-TX/1000Base-T Ethernet</li> <li>▪ USB HOST (Memory Direct Printing, Scan to USB Memory)</li> </ul>  | <ul style="list-style-type: none"> <li>▪ USB 2.0 (High-Speed) compliant</li> <li>▪ 10Base-T/100Base-TX/1000Base-T Ethernet</li> <li>▪ USB HOST (USB Device Printing, Scan to USB Memory)</li> </ul>   |
| <b>Support OS</b>      | <ul style="list-style-type: none"> <li>▪ Windows 7 [32bit/64bit], Windows 2000 (Service Pack 4), Windows XP (Service Pack 2 or later) [32bit/64bit], Windows Vista (Service Pack 1) [32bit/64bit], Windows Server 2003 [32bit/64bit], Windows Server 2008 [32bit/64bit]</li> <li>▪ Mac OS X (10.2.8/10.3.9/10.4/10.5/10.6)</li> <li>▪ Red Hat Linux 9.0, SUSE Linux 8.2</li> <li>▪ Netware 4/5/6</li> </ul> | <ul style="list-style-type: none"> <li>▪ Windows 7 [32bit/64bit], Windows XP (Service Pack 2 or later) [32bit/64bit], Windows Vista (Service Pack 1) [32bit/64bit], Windows Server 2003 [32bit/64bit], Windows Server 2008 [32bit/64bit], Windows Server 2008 R2 [64bit]</li> <li>▪ Mac OS X (10.3/10.4/10.5/10.6)</li> <li>▪ Red Hat Enterprise Linux 5 Desktop (CUPS Ver.1.2.4), SUSE Linux Enterprise Desktop 10 (CUPS Ver.1.1.23)</li> <li>▪ Netware 4/5/6</li> </ul> | <ul style="list-style-type: none"> <li>▪ Windows 7 [32bit/64bit], Windows 2000 (Service Pack 4), Windows XP (Service Pack 2 or later) [32bit/64bit], Windows Vista (Service Pack 1) [32bit/64bit], Windows Server 2003 [32bit/64bit], Windows Server 2008 [32bit/64bit], Windows Server 2008 R2 [64bit]</li> <li>▪ Mac OS X (10.2.8/10.3/10.4/10.5/10.6)</li> <li>▪ Red Hat Enterprise Linux 5 Desktop (CUPS Ver.1.2.4), SUSE Linux Enterprise Desktop 10 (CUPS Ver.1.1.23)</li> <li>▪ Netware 4/5/6</li> </ul> |

NARRATION: This is a continuation of the controller's main specifications.

## 1.2 Installation

- 1 [Confirm the installation location](#) 
- 2 [Unpack the machine and check the components](#)
- 3 [Set up the machine](#) 
- 4 [Install the accessories \(If you use the accessories\)](#) 
- 5 [Connect a line cable \(If you use the G3 fax\)](#)
- 6 [Initial G3 fax settings \(If you use the G3 fax\)](#)
- 7 [Connect an Ethernet cable or a USB cable](#)
- 8 [Initial network settings \(If you use this machine in the network environment\)](#)
- 9 [Install the Drivers](#)

[For Windows](#) 

[For Mac OS X](#) 

[For Linux](#) 

NARRATION: This is an explanation of the installation procedure for this machine. For details regarding each procedure, click on the links.

## 1.3 Bundled CD/DVDs

- Drivers CD/DVD
- Applications CD/DVD
- Documentation CD/DVD

NARRATION: This section will cover the “bundled CD/DVDs”.



## Drivers CD/DVD

| Drivers         |                   | Operating System  | Use/Benefit  |
|-----------------|-------------------|---|--|
| Printer Drivers | PostScript Driver | <ul style="list-style-type: none"> <li>Windows 7/XP/Vista/Server 2003/Server 2008</li> <li>Windows 7/XP/Vista/Server 2003/Server 2008/Server 2008 R2 for 64bit</li> </ul>   | These drivers give you access to all of the printer features, including finishing and advanced layout.   |
|                 | PCL Driver        | <ul style="list-style-type: none"> <li>Windows 7/XP/Vista/Server 2003/Server 2008</li> <li>Windows 7/XP/Vista/Server 2003/Server 2008/Server 2008 R2 for 64bit</li> </ul>   |  |
|                 | XPS Driver        | <ul style="list-style-type: none"> <li>Windows 7/Vista/Server 2008</li> <li>Windows 7/Vista/Server 2008/Server 2008 R2 for 64bit</li> </ul>   |  |
|                 | PPD File          | <ul style="list-style-type: none"> <li>Mac OS X (10.3/10.4/10.5/10.6)</li> <li>Red Hat Enterprise Linux 5 Desktop</li> <li>SUSE Linux Enterprise Desktop 10</li> </ul> <p>* A specific PPD file has been prepared for application (such as PageMaker and CorelDRAW) that require that a PPD file be specified when printing. When specifying a PPD file while printing on Windows, use the specific PPD file.</p> | This file is required in order to use the printer driver for each operating system.  |
| PC Fax Driver   |                   | <ul style="list-style-type: none"> <li>Windows 7/XP/Vista/Server 2003/Server 2008</li> <li>Windows 7/XP/Vista/Server 2003/Server 2008/Server 2008 R2 for 64bit</li> </ul>   | This driver enables you to specify the fax settings, such as the paper settings for sending faxes and the settings for editing the address book. |
| Scanner Drivers | TWAIN Driver      | <ul style="list-style-type: none"> <li>Windows 7/XP/Vista/Server 2003/Server 2008</li> <li>Windows 7/XP/Vista/Server 2003/Server 2008/Server 2008 R2 for 64bit</li> <li>* Windows TWAIN driver does not correspond to 64bit applications though it corresponds to 32bit application on 64bit OS.</li> <li>Mac OS X (10.3/10.4/10.5/10.6)</li> </ul>   | These drivers enable you to set the scanning functions, such as the color setting and the size adjustments.                                      |
|                 | WIA Driver        | <ul style="list-style-type: none"> <li>Windows 7/XP/Vista/Server 2003/Server 2008</li> <li>Windows 7/XP/Vista/Server 2003/Server 2008/Server 2008 R2 for 64bit</li> </ul>   |  |

NARRATION: These are the driver and the operating system files contained on the Drivers CD/DVD.

## Applications CD/DVD

| Applications                              | Operating System  | Use/Benefit   |
|---|---|---|
| <b>Download Manager</b>                   | <ul style="list-style-type: none"> <li>▪ Windows 7/XP/Vista/Server 2003/Server 2008</li> <li>▪ Windows 7/XP/Vista/Server 2003/Server 2008/Server 2008 R2 for 64bit</li> <li>▪ Mac OS X (10.3/10.4/10.5/10.6)</li> </ul> | This utility, which can be used only if the optional hard disk or CompactFlash card is installed, enables fonts and overlay data to be downloaded to the machine hard disk.   |
| <b>Local Setup Utility (LSU)</b>          | <ul style="list-style-type: none"> <li>▪ Windows 7/XP/Vista/Server 2003/Server 2008</li> <li>▪ Windows 7/XP/Vista/Server 2003/Server 2008/Server 2008 R2 for 64bit</li> </ul>   | This software enables destinations (scanning and faxing) in the favorite list, in the speed dialing and in the group dialing to be created or edited from the computer. In addition, the status of this machine can be checked. |
| <b>LinkMagic</b>                          | <ul style="list-style-type: none"> <li>▪ Windows 7/XP/Vista/Server 2003/Server 2008</li> <li>▪ Windows 7/XP/Vista/Server 2003/Server 2008/Server 2008 R2 for 64bit</li> </ul>   | This software enables scanned documents to be saved in a file, processed, mail attached, and printed out.   |
| <b>PageScope Net Care Device Manager</b>  | <ul style="list-style-type: none"> <li>▪ Windows 7/XP/Vista/Server 2003/Server 2008</li> <li>▪ Windows 7/XP/Vista/Server 2003/Server 2008/Server 2008 R2 for 64bit</li> </ul>   | Printer management functions such as status monitoring and network settings can be accessed.  |
| <b>PageScope Enterprise Suite Plug-in</b> | <ul style="list-style-type: none"> <li>▪ Windows 7/XP/Vista/Server 2003/Server 2008</li> <li>▪ Windows 7/XP/Vista/Server 2003/Server 2008/Server 2008 R2 for 64bit</li> </ul>   | This plug-in provides the additional functions of PageScope Enterprise Suite, which enables centralized management of devices and permission management.  |
| <b>PageScope Direct Print</b>             | <ul style="list-style-type: none"> <li>▪ Windows 7/XP/Vista</li> <li>▪ Windows 7/XP/Vista for 64bit</li> </ul>  | This application provides functions for sending PDF and TIFF files directly to this machine to be printed.  |

NARRATION: These are the tools contained on the Applications CD/DVD.

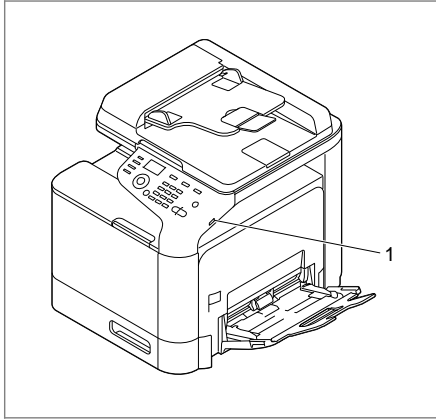
## Documentation CD/DVD

| Documentation                              | Use/Benefit  |
|--|--|
| <b>Installation Guide</b>                  | This guide provides installation details that must be performed in order to use this machine, such as setting up the machine and installing the drivers.                                 |
| <b>Printer/Copier/Scanner User's Guide</b> | This guide provides details on general daily operations, such as using the drivers and the control panel, and replacing consumables.   |
| <b>Facsimile User's Guide</b>              | This guide provides details on general fax operations, such as sending and receiving faxes and using the control panel.  |
| <b>Reference Guide</b>                     | This guide provides details on installing Macintosh and Linux drivers, on specifying settings for the network, Local Setup Utility (LSU), LinkMagic, and the printer management utility. |
| <b>Quick Guide</b>                         | This guide provides simple procedures for print, copy, scan, and fax operations and for replacing consumables.   |

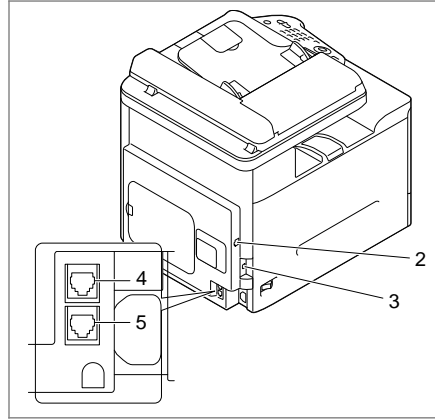
NARRATION: These are the various guides that are contained on the Documentation CD/DVD.

## 1.4 Interface

### ❖ Front View



### ❖ Rear View



|   |  |
|---|--|
| 1 | USB HOST port  |
| 2 | 10Base-T/100Base-TX/1000Base-T (IEEE802.3) Ethernet interface port |
| 3 | USB port   |
| 4 | LINE (telephone line) jack   |
| 5 | TEL (telephone) jack   |

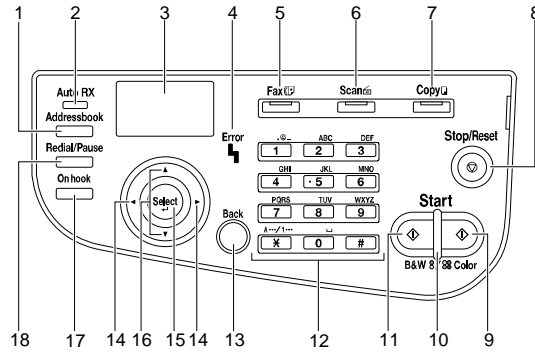
NARRATION: These are the interface connections.

## 1.5 Control Panel

- Control Panel Indicators & Keys
- Panel Simulation
- Toner Remaining Screen
- Fax Mode
- Scan Mode
- Copy Mode
- Printer Mode
- UTILITY Menu
- REPORT/STATUS Menu
- PS/PCL PRINT Menu
- MEMORY PRINT Menu

NARRATION: This section will cover the “control panel”.

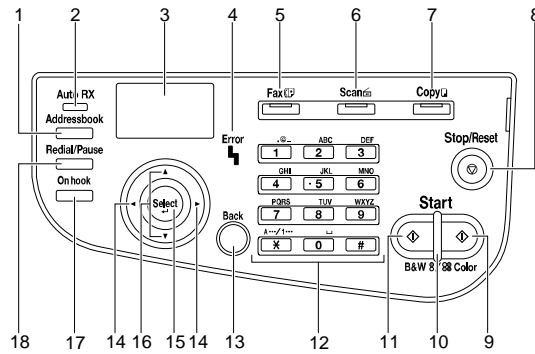
## Control Panel Indicators & Keys [1/3]



| No. | Part Name           | Description   |
|-----|---------------------|---|
| 1   | [Addressbook] key   | <ul style="list-style-type: none"> <li>Display the information registered in the favorite list, the speed dial destinations and the group dial destinations.</li> </ul>   |
| 2   | [Auto RX] indicator | <ul style="list-style-type: none"> <li>Lights up when the automatic receiving function is selected.</li> </ul>  |
| 3   | Message window      | <ul style="list-style-type: none"> <li>Displays settings, menus, and messages.</li> </ul>   |
| 4   | [Error] indicator   | <ul style="list-style-type: none"> <li>Indicates an error condition.</li> </ul>   |
| 5   | [Fax] key/LED       | <ul style="list-style-type: none"> <li>Enters Fax mode.</li> <li>Lights up in green to indicate that the machine is in Fax mode.</li> </ul>   |
| 6   | [Scan] key/LED      | <ul style="list-style-type: none"> <li>Enters Scan mode. (Scan to E-mail, Scan to FTP, Scan to SMB, Scan to PC, or Scan to USB Memory)</li> <li>Lights up in green to indicate that the machine is in Scan mode.</li> </ul> |

**NARRATION:** This is an explanation of each control panel indicator and key. The control panel, located on the top of the machine, allows you to direct the operation.

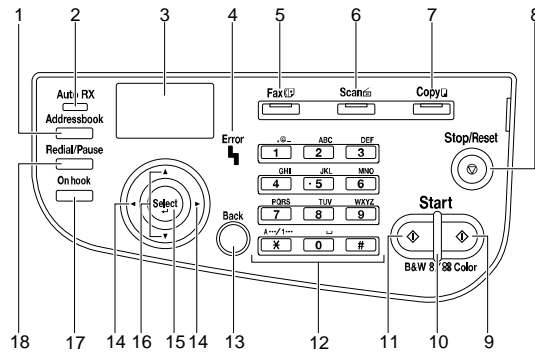
## Control Panel Indicators & Keys [2/3]



| No. | Part Name           | Description  |
|-----|---------------------|--|
| 7   | [Copy] key/LED      | <ul style="list-style-type: none"> <li>Enters Copy mode.</li> <li>Lights up in green to indicate that the machine is in Copy mode.</li> </ul>  |
| 8   | [Stop/Reset] key    | <ul style="list-style-type: none"> <li>Returns the settings to their defaults and stops functions.</li> </ul>  |
| 9   | [Start (Color)] key | <ul style="list-style-type: none"> <li>Starts color copying, scanning or faxing.</li> </ul>  |
| 10  | [Start] indicator   | <ul style="list-style-type: none"> <li>Lights up in blue when copying and fax transmission are possible.</li> <li>Lights up in orange when copying and fax transmissions are not possible, for example, during warm-up or if an error has occurred.</li> </ul> |
| 11  | [Start (B&W)] key   | <ul style="list-style-type: none"> <li>Starts monochrome copying, scanning or faxing.</li> </ul>   |
| 12  | Keypad              | <ul style="list-style-type: none"> <li>Enters desired number of copies.</li> <li>Enters fax numbers, mail addresses, and names of recipients.</li> </ul>   |

NARRATION: This is a continuation of each control panel indicator and key.

## Control Panel Indicators & Keys [3/3]




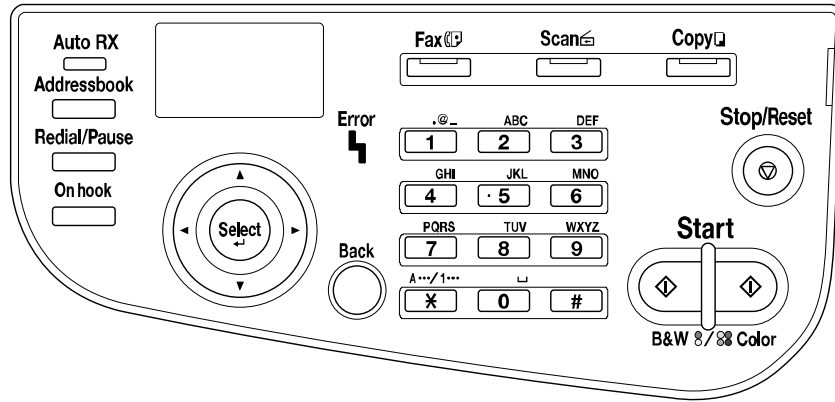
| No. | Part Name          | Description  |
|-----|--------------------|--|
| 13  | [Back] key         | <ul style="list-style-type: none"> <li>Clears the specified number of copies and entered text.</li> <li>Press to return to the previous screen.</li> <li>Press to cancel the setting that is currently displayed.</li> </ul> |
| 14  | [◀] / [▶] key      | <ul style="list-style-type: none"> <li>Moves left and right through menus, options, or choices.</li> </ul>   |
| 15  | [Select] key       | <ul style="list-style-type: none"> <li>Press to select the setting that is currently displayed.</li> </ul>   |
| 16  | [▲] / [▼] key      | <ul style="list-style-type: none"> <li>Moves up and down through menus, options, or choices.</li> </ul>  |
| 17  | [On hook] key      | <ul style="list-style-type: none"> <li>Sends and receives transmissions with the receiver on the hook.</li> </ul>  |
| 18  | [Redial/Pause] key | <ul style="list-style-type: none"> <li>Recalls the last number dialed.</li> <li>Inserts a pause when a number is dialed.</li> </ul>  |

NARRATION: Again, a continuation of each control panel indicator and key.



# Panel Simulation

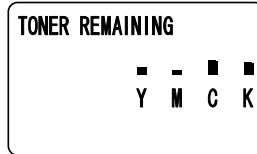
Panel Simulation 



NARRATION: Click on the link and use the panel simulation to check the setting items. The "SERVICE MODE" menu is not included in this panel simulation.

## Toner Remaining Screen

With the main screen displayed, press the [◀] key to display the [TONER REMAINING] screen. From this screen, a general estimate of the amount of toner remaining in the toner cartridges can be viewed.



To return to the main screen, press the [Back] key.

\* If the [Select] key is held down for at least 2 seconds while the screen described above is displayed, the configuration page will be printed.

NARRATION: This is an explanation of the toner remaining screen.

## Fax Mode

| No. | Indication        | Description  |
|-----|-------------------|--|
| 1   | Time              | Displays the time currently specified with [UTILITY] → [ADMIN. MANAGEMENT] → [USER SETTING] → [DATE&TIME].   |
| 2   | Fax quality       | Indicates the fax quality that is selected.  |
| 3   | Fax destination   | Indicates the specified fax destination.<br><i>* If no destination has been specified, [FAX TO] appears.</i>   |
| 4   | Status            | Depending on the situation, the machine status or an error message may appear.   |
| 5   | Available memory  | Indicates the percentage of memory available for scanning and fax operations.  |
| 6   | TIMER TX          | Select this menu item to specify the time when the fax is to be sent.  |
| 7   | Transmission mode | Indicates the fax transmission mode that is selected.  |
| 8   | CANCEL RESERV.    | Select this menu item to display the list of jobs queued for transmission and to delete a job.   |
| 9   | UTILITY           | Select this menu item to change the various machine settings.  |
| 10  | REPORT/STATUS     | Select this menu item to view the total number of pages printed by this machine and the results of fax transmissions/receptions as well as to print the reports. |

NARRATION: This is an explanation of the fax mode. When you press the [Fax] key, the following screens are displayed. The [CANCEL RESERV.], [UTILITY] and [REPORT/STATUS] menu does not appear if a destination has been specified.

## Scan Mode

| No. | Indication                          | Description   |
|-----|-------------------------------------|---|
| 1   | Data format                         | Indicates the data format that is selected.   |
| 2   | Scan quality                        | Indicates the scan quality that is selected.  |
| 3   | Scan data destination               | Indicates the specified destination for the scan data.<br>* If no destination has been specified, [SCAN TO] appears.  |
| 4   | Status                              | Depending on the situation, the machine status or an error message may appear.  |
| 5   | Available memory                    | Indicates the percentage of memory available for scanning and fax operations.   |
| 6   | Single-sided/ Double-sided scanning | Indicates whether single-sided scanning or double-sided scanning is selected.   |
| 7   | Scan size                           | Indicates the scan size that is selected.   |
| 8   | Scan color                          | Indicates the scan color that is selected.  |
| 9   | SUBJECT                             | Select this menu item to specify the subject.   |
| 10  | CANCEL RESERV.                      | Select this menu item to display the list of jobs queued for transmission and to delete a job.  |
| 11  | UTILITY                             | Select this menu item to change the various machine settings.   |
| 12  | REPORT/STATUS                       | Select this menu item to view the total number of pages printed by this machine and the results of fax transmissions/ receptions as well as to print the reports. |

NARRATION: This is an explanation of the scan mode. When you press the [Scan] key, the following screens are displayed. The [SUBJECT] menu does not appear if an FTP or SMB address was specified as the destination. The [CANCEL RESERV.], [UTILITY], and [REPORT/STATUS] menu does not appear if an e-mail, FTP, or SMB address was specified as the destination.

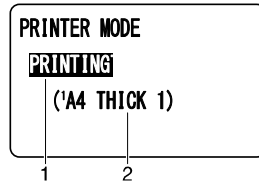
## Copy Mode

| No. | Indication       | Description  |
|-----|------------------|--|
| 1   | PAPER SELECT     | Indicates the media tray that is selected.   |
| 2   | ZOOM RATIO       | Indicates the zoom ratio that is specified.  |
| 3   | QUALITY          | Indicates the copy quality that is selected.   |
| 4   | Status           | Depending on the situation, the machine status or an error message may appear.   |
| 5   | DENSITY          | Indicate the copy density. [AUTO] appears when [DENSITY] is set to [AUTO] and [TEXT] copy mode is selected.  |
| 6   | Number of copies | Indicates the number of copies.  |
| 7   | COPY FINISHING   | Indicates whether or not collated (sort) copying is selected.  |
| 8   | COMBINE ORIGINAL | Indicates whether or not 2in1/4in1 copying is selected.  |
| 9   | SIMPLEX/DUPLEX   | Indicates whether single-sided copying or double-sided copying is selected.  |
| 10  | COPY FUNCTION    | Indicates the copy function that is set.   |
| 11  | UTILITY          | Select this menu item to change the various machine settings.  |
| 12  | REPORT/STATUS    | Select this menu item to view the total number of pages printed by this machine and the results of fax transmissions/receptions as well as to print the reports. |
| 13  | PS/PCL PRINT     | Select this menu item to print or delete jobs stored on the machine's optional hard disk and to change the settings related to PS/PCL printing.                  |
| 14  | MEMORY PRINT     | Select this menu item to perform memory direct printing operations and to specify settings for these operations.   |

NARRATION: This is an explanation of the copy mode. When you press the [Copy] key, the following screens are displayed. The [MEMORY PRINT] menu appears only if an optional hard disk or a CompactFlash card is installed.

## Printer Mode

When a print job is received, [PRINTER: Printing] appears in the status section of the main screen. To display the print screen (as shown below), press the [◀] key while [PRINTER: Printing] is displayed.



| No. | Indication            | Description   |
|-----|-----------------------|---|
| 1   | Status                | Displays messages indicating operations such as printing.   |
| 2   | Media tray/Media size | Displays the printing information (media tray, media size and media type).<br><i>* This does not appear if [PLAIN PAPER] or [RECYCLED PAPER] is selected as the media type.</i> |

To cancel printing, press the [Stop/Reset] key when the print screen appears. Press the [Select] key to select [YES].

NARRATION: This is an explanation of the printer mode.

## UTILITY Menu

To display the settings menu for this machine, select [UTILITY] in the main screen, and then press the [Select] key. From this menu, settings for the various machine functions can be changed.

- \* To return to the previous screen in the [UTILITY] menu, press the [Back] key. (If the [Back] key is pressed while settings are being specified, those settings are not saved.)
- \* The [ADMIN. MANAGEMENT] menu is accessible only by the administrator. To display the settings for this menu, select [ADMIN. MANAGEMENT], use the keypad to type in the 6-digit administrator access code (default: 000000), and then press the [Select] key.

### UTILITY

[ACCESSIBILITY](#) 

[MACHINE SETTING](#) 

[PAPER SETUP](#) 

[ADMIN. MANAGEMENT](#) 

[COPY SETTING](#) 

[DIAL REGISTER](#) 

[FAX TX OPERATION](#) 

[FAX RX OPERATION](#) 

[REPORTING](#) 

[SCAN SETTING](#) 

NARRATION: This is an explanation of the UTILITY menu. This menu is displayed in the Fax, Scan, and Copy modes. For details regarding each item, click on the links.

## REPORT/STATUS Menu

To display the [REPORT/STATUS] menu, select [REPORT/STATUS] in the main screen, and then press the **[Select]** key. From this menu, the total number of pages printed by this machine and the results of fax transmissions/receptions can be viewed. In addition, the reports can be printed.

\* To return to the previous screen, press the **[Back]** key. To display the main screen, press the **[Stop/Reset]** key.

### REPORT/STATUS

#### TOTAL PRINT

The total number of each page can be checked.

#### SUPPLY STATUS

The remaining amount of toner in the toner cartridges and the remaining service life of the imaging units can be displayed as a percentage.

#### TX/RX RESULT

The results of a maximum of 60 fax transmissions/receptions can be viewed.

#### REPORT

The machine settings, lists and reports related to fax can be printed.

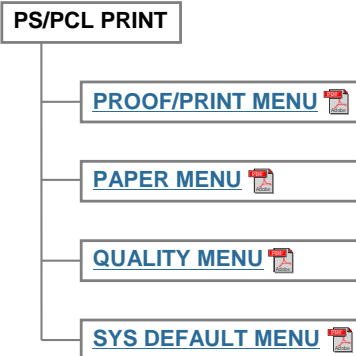
NARRATION: This is an explanation of the REPORT/STATUS menu. This menu is displayed in the Fax, Scan, and Copy modes. For details regarding each item, click on the links.



## PS/PCL PRINT Menu

To display the [PS/PCL PRINT] menu, select [PS/PCL PRINT] in the main screen of copy mode, and then press the [Select] key. From this menu, jobs stored on the machine's optional hard disk can be printed or deleted, and various PS/PCL printing settings can be changed.

- \* To return to the previous screen in the [PS/PCL PRINT] menu, press the [Back] key. (If the [Back] key is pressed while settings are being specified, those settings are not saved.)
- \* The [PROOF/PRINT MENU] appears only if an optional hard disk is installed.

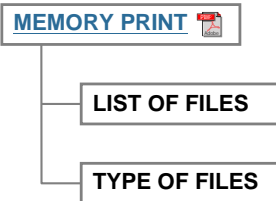


NARRATION: This is an explanation of the PS/PCL PRINT menu. This menu is displayed only in the Copy mode. For details regarding each item, click on the links.

## MEMORY PRINT Menu

To display the [MEMORY PRINT] menu, select [MEMORY PRINT] in the main screen of copy mode, and then press the [Select] key. From this menu, memory direct printing operations can be performed, and various memory direct printing settings can be specified.

\* *This menu item appears only if an optional hard disk or a CompactFlash card is installed. In addition, this menu item does not appear if public user access has not been permitted through authentication settings.*



NARRATION: This is an explanation of the MEMORY PRINT menu. This menu is displayed only in the Copy mode. For details regarding setting items, click on the link.

## 1.6 Initial Network Settings

### ❖ Using DHCP

If your network supports DHCP (Dynamic Host Configuration Protocol), the machine's IP address will be automatically assigned by the DHCP server when you turn on the machine.

### ❖ Setting the Address Manually

You may manually change the machine's IP address, subnet mask, and gateway.

- ❖ Turn off "DHCP", "BOOTP", and "ARP/PING" first.
- ❖ When the IP address is changed, add a new port or reinstall the drivers.

```
> UTILITY
  > ADMIN. MANAGEMENT
    > NETWORK SETTING
      > TCP/IP
        Select "ENABLE". (Default)
      > DHCP
        Select "ENABLE". (Default)
```

```
> UTILITY
  > ADMIN. MANAGEMENT
    > NETWORK SETTING
      > TCP/IP
        Select "ENABLE". (Default)
      > DHCP
        Select "DISABLE".
      > BOOTP
        Select "DISABLE". (Default)
      > ARP/PING
        Select "DISABLE". (Default)
```

Afterwards, set the following items.

```
> IP ADDR. SETTING
  > IP ADDRESS
    Type in the IP address.
  > SUBNET MASK
    Type in the subnet mask.
  > GATEWAY
    Type in the gateway.
```

**NARRATION:** To connect your machine in a TCP/IP network environment, you must make sure that the internal network addresses in the machine have been set. You can do this in one of two ways: by using DHCP or by manually setting the address.

**Lesson 1 Quiz** Point Value: 40

Question 1 of 3 ▾

What are the standard interfaces for printing? (select the three that apply)

- Ethernet Interface port
- Parallel port
- USB HOST port
- USB port

**PROPERTIES**


On passing, 'Finish' button: [Goes to Next Slide](#)


On failing, 'Finish' button: [Goes to Next Slide](#)

Allow user to leave quiz: [At any time](#)

User may view slides after quiz: [At any time](#)

User may attempt quiz: [Unlimited times](#)

 Properties...

 Edit in Quizmaker

NARRATION: This is the review quiz for this lesson.

## 1.7 Lesson 1 Review

### Lesson 1

In this lesson you learned to:

- 1) Describe the controller specifications.
- 2) Explain the installation procedure.
- 3) Describe the contents of the bundled CD/DVDs.
- 4) Locate the interface connections.
- 5) Describe the indicators & keys, each mode, and each menu of the control panel.
- 6) Set the necessary network settings when this machine is used in the network environment.

NARRATION: In this lesson, you learned about the following items.

## Lesson 2: PageScope Web Connection (PSWC)

### Lesson 2

Topics covered in the lesson include:

- 2.1 Specifications
- 2.2 Displayed Items
- 2.3 How to Login
- 2.4 Displayed Pages
- 2.5 Only PageScope Web Connection Settings
- 2.6 Lesson 2 Review

NARRATION: The following “PageScope Web Connection” topics will be covered in this lesson.

## 2.1 Specifications

PageScope Web Connection is an HTTP(HyperText Transfer Protocol)-based web page that resides in your machine that you can access using your web browser.

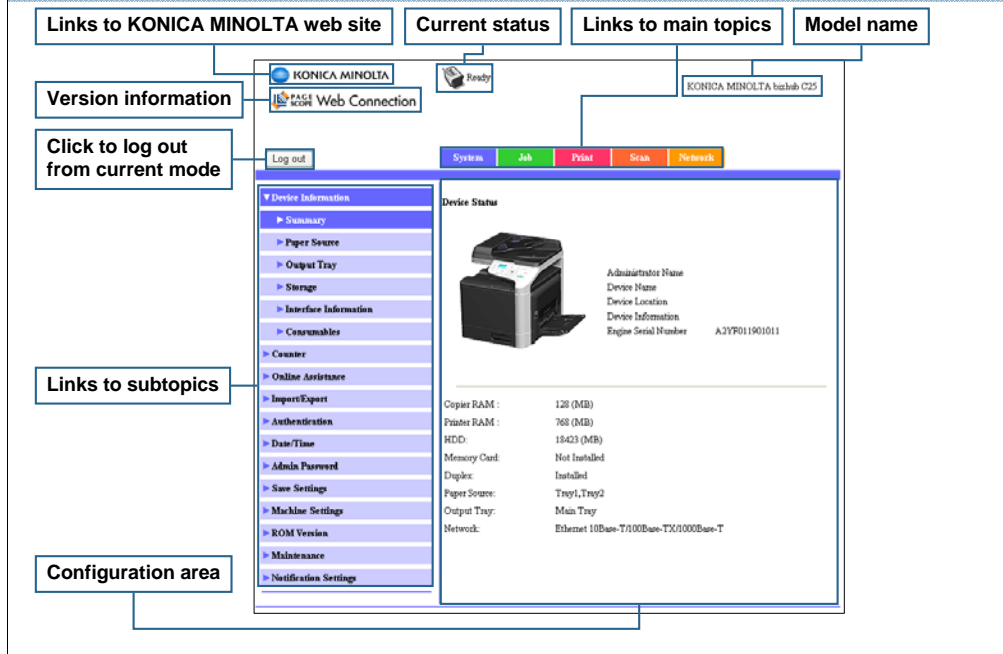
|                           | bizhub C20   | bizhub C25  | bizhub C35  |
|---------------------------|--|---|---|
| <b>Support OS</b>         | <ul style="list-style-type: none"> <li>Windows 7/2000/XP/Vista/Server 2003/Server 2008</li> <li>Mac OS X (10.2.8/10.3.9/10.4/10.5/10.6)</li> </ul>   | <ul style="list-style-type: none"> <li>Windows 7/XP/Vista/Server 2003/Server 2008/Server 2008 R2</li> <li>Mac OS X (10.3/10.4/10.5/10.6)</li> <li>Red Hat Enterprise Linux 5 Desktop, SUSE Linux Enterprise Desktop 10</li> </ul> | <ul style="list-style-type: none"> <li>Windows 7/2000/XP/Vista/Server 2003/Server 2008/Server 2008 R2</li> <li>Mac OS X (10.2.8/10.3/10.4/10.5/10.6)</li> <li>Red Hat Enterprise Linux 5 Desktop, SUSE Linux Enterprise Desktop 10</li> </ul> |
| <b>Support Browser</b>    | <ul style="list-style-type: none"> <li>Microsoft Internet Explorer version 6 or later</li> <li>Netscape Navigator version 7 or later</li> </ul>  | <ul style="list-style-type: none"> <li>Microsoft Internet Explorer version 6 or later</li> <li>Mozilla Firefox version 3.0 or later</li> </ul>  | <ul style="list-style-type: none"> <li>Microsoft Internet Explorer version 6 or later</li> <li>Mozilla Firefox version 2.0 or later</li> </ul>  |
| <b>Other Requirements</b> | <ul style="list-style-type: none"> <li>TCP/IP communication software installed on your computer.                             <ul style="list-style-type: none"> <li>* You do not need an Internet connection.</li> </ul> </li> <li>A network to which both your computer and the machine are connected.                             <ul style="list-style-type: none"> <li>* You cannot access PageScope Web Connection using a local (USB) connection.</li> </ul> </li> </ul> |   |   |

[When Connecting with Windows Server 2008/Server 2008 R2](#) 

[Setting Up the Printer Web Page](#) 

NARRATION: PageScope Web Connection gives you instant access to the machine status and the most frequently used machine configuration options. In addition, when you enter as the administrator, you can change the configuration of the machine. For details regarding when using Windows Server 2008 and setting up the printer web page, click on the links.

## 2.2 Displayed Items



**NARRATION:** This illustration identifies the navigation and configuration areas of the windows that you see in PageScope Web Connection windows.

Selecting the main topic and subtopic, displays the configuration area of the machine options (parameters) associated with your selections.

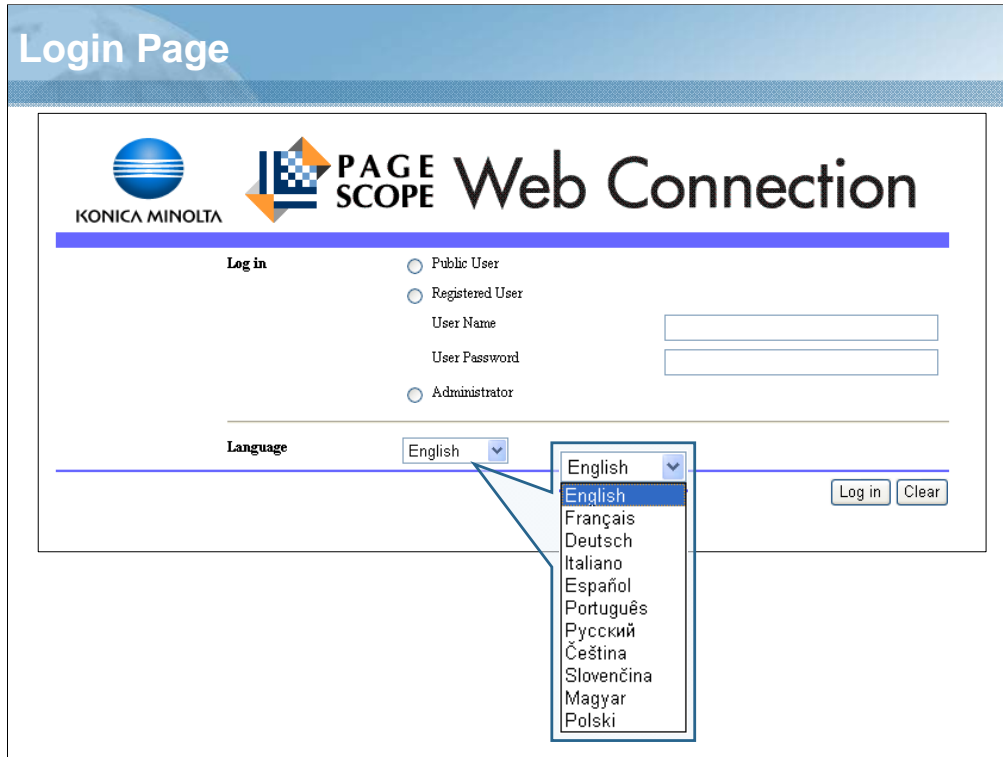
To change a current setting, click on the current setting and then select from the available choices, or enter the new value. In order to change the configuration settings, PageScope Web Connection must be logged in from Administrator.



## 2.3 How to Login

- Login Page
- Public User
- Registered User
- Administrator

NARRATION: This section will cover “how to login”.



NARRATION: When user authentication is used, user authentication can be specified in the login page. When user authentication is not set, "Registered User" is not displayed in the login page.

If necessary, the display language used for PageScope Web Connection can be changed from the "Language" drop-down list.

## Public User

- 1) Select [Public User].
- 2) Click [Log in].
- 3) Displays the PageScope Web Connection window of public user.

KONICA MINOLTA PAGE SCOPE Web Connection

Log in 1)

Public User  
 Registered User  
User Name \_\_\_\_\_  
User Password \_\_\_\_\_  
 Administrator

Language English

2) Log in Clear

KONICA MINOLTA Web Connection

Log out

Device Information  
Settings  
Paper Source  
Output Tray  
Storage  
Interface Information  
Customizable  
Counter  
Other Settings

Device Status

Administrator Name  
Device Name  
Device Location  
Device Information  
Region/Serial Number A37901901011

|               |                            |
|---------------|----------------------------|
| Output RAM:   | 128 (MB)                   |
| Printer RAM:  | 168 (MB)                   |
| BCD:          | 1842 (MB)                  |
| Memory Card:  | Not Installed              |
| Display:      | Installed                  |
| Page Scanner: | Tray1, Tray2               |
| Output Tray:  | Main Tray                  |
| Network:      | Ethernet 10/100/1000Base-T |

NARRATION: In public user, you can view configuration settings, but not change them.

## Registered User

- 1) Select [Registered User].
- 2) Type the user name and the user password in the [User Name] and the [User Password] text boxes.
- 3) Click [Log in].
- 4) Displays the PageScope Web Connection window of registered user.

|              |                                 |
|--------------|---------------------------------|
| Original RAM | 128 (MB)                        |
| Printer RAM  | 768 (MB)                        |
| FEED         | 1842 (MB)                       |
| Memory Card  | Not Installed                   |
| Display      | Installed                       |
| Page Driver  | TrueType2                       |
| Output Tray  | Blank Tray                      |
| Hardware     | Blower 180mm-T1000mm-T21000mm-T |

NARRATION: In registered user, you can view configuration settings, but not change them. In addition, you can change your user password and view your registration information from the “User Authentication” submenu.

# Administrator

- 1) Select [Administrator].
- 2) Click [Log in].
- 3) Type the administrator password in the [Admin Password] text box.  
*\* The default password is set to "administrator".*
- 4) Click [OK].
- 5) Displays the PageScope Web Connection window of administrator.

KONICA MINOLTA PAGE SCOPE Web Connection

Log in

Public User  
 Registered User  
 Administrator

User Name:   
User Password:

Language: English

Log in Clear

KONICA MINOLTA PAGE SCOPE Web Connection

Admin Password:

OK Cancel

KONICA MINOLTA PAGE SCOPE Web Connection

Log in

Admin Password

Printer Status

|                              |          |
|------------------------------|----------|
| Page Size                    | 12x 18in |
| Page Count                   | 100      |
| Page Type                    | Standard |
| Page Color                   | Color    |
| Page Resolution              | 300dpi   |
| Page Orientation             | Portrait |
| Page Duplex                  | None     |
| Page Scaling                 | 100%     |
| Page Stagger                 | None     |
| Page Trimming                | None     |
| Page Watermark               | None     |
| Page Security                | None     |
| Page Authentication          | None     |
| Page Encryption              | None     |
| Page Compression             | None     |
| Page Caching                 | None     |
| Page Printing                | None     |
| Page Printing Speed          | None     |
| Page Printing Quality        | None     |
| Page Printing Resolution     | None     |
| Page Printing Orientation    | None     |
| Page Printing Duplex         | None     |
| Page Printing Stagger        | None     |
| Page Printing Trimming       | None     |
| Page Printing Watermark      | None     |
| Page Printing Security       | None     |
| Page Printing Authentication | None     |
| Page Printing Encryption     | None     |
| Page Printing Compression    | None     |
| Page Printing Caching        | None     |

NARRATION: In administrator, you can change any configuration settings.

## 2.4 Displayed Pages

- System Page
- Job Page
- Print Page
- Scan Page
- Network Page

NARRATION: This section will cover the “displayed pages”.

# System Page

## ❖ Public User/Registered User

This page allows you to find the printer status, the current configuration settings, and the printer identification.

\* "User Authentication" subtopic appears only when logged on to registered user.



[Displayed Settings](#) 

## ❖ Administrator

This page allows you to configure several user- and printer-specific items.



[Displayed Settings](#) 

NARRATION: This is an explanation of the system page. For details regarding each displayed setting, click on the links.

# Job Page

## ❖ Public User/Registered User

This page allows you to view the status of current print jobs and completed print jobs.



[Displayed Settings](#) 

## ❖ Administrator

This page allows you to view the status of current print jobs and completed print jobs.



[Displayed Settings](#) 

NARRATION: This is an explanation of the job page. For details regarding each displayed setting, click on the links.



# Print Page

## ❖ Public User/Registered User

This page allows you to check the settings for printing when there is no PDL printer driver, as well as send the instructions of report print and direct print.



[Displayed Settings](#) 

## ❖ Administrator

This page allows you to specify more detailed printer settings.



[Displayed Settings](#) 

NARRATION: This is an explanation of the print page. For details regarding each displayed setting, click on the links.

# Scan Page

## ❖ Public User/Registered User

This page allows you to view the currently specified dial settings.



[Displayed Settings](#) 

## ❖ Administrator

This page allows you to register the settings for the destination information in the machine, as well as specify the fax and scan transmission/reception settings.



[Displayed Settings](#) 

NARRATION: This is an explanation of the scan page. For details regarding each displayed setting, click on the links.

# Network Page

## ❖ Administrator

This page allows you to configure the network settings.

The screenshot displays a web-based configuration interface for network settings. At the top, there is a navigation bar with tabs for 'System', 'Job', 'Print', 'Scan', and 'Network'. The 'Network' tab is selected. On the left side, there is a vertical menu with various network-related options, including 'TCP/IP', 'IPv6 Settings', 'RAW Port Settings', 'DNS Settings', 'IP Address Filtering', 'DHCP', 'Bonjour', 'LDAP', 'WSD', 'LLTD', 'NetWare', 'IPP', 'FTP', 'SNMP', 'AppleTalk', 'Email', 'SMB', 'SSL/TLS', and 'Authentication'. The 'TCP/IP' option is selected and highlighted in yellow. The main content area shows the configuration for TCP/IP, with the following settings:

| Setting | Value  |
|---------|--------|
| TCPIP   | Enable |
| Speed   | Auto   |
| LLDP    | Enable |
| SLP     | Enable |
| LLMNR   | Enable |

At the bottom of the configuration area, there are 'Apply' and 'Clear' buttons. Below the configuration area, there is a link labeled 'Displayed Settings' with a small icon next to it.

NARRATION: This is an explanation of the network page. This page appears only when logged on as an administrator. For details regarding the displayed setting, click on the link.

## 2.5 Only PageScope Web Connection Settings

- System Page
- Print Page
- Scan Page
- Network Page

NARRATION: This section will cover the setting items that can be set only from PageScope Web Connection.

## System Page [1/2]

### ❖ Registered User

| Subtopics           |                      | Description   |
|---------------------|----------------------|---|
| User Authentication | User Password Change | <ul style="list-style-type: none"><li>Change the user own password.</li></ul> |

### ❖ Administrator

| Subtopics      |                             | Description  |
|----------------|-----------------------------|--|
| Import/Export  | Job Log                     | <ul style="list-style-type: none"><li>Export the job log data on the machine to the computer.</li><li>Clear all job log data from the machine.</li></ul>   |
|                | User Information            | <ul style="list-style-type: none"><li>Import the registered user authentication information to the machine.</li><li>Export the registered user authentication information to the computer.</li></ul>   |
| Authentication | Default Permission Settings | <ul style="list-style-type: none"><li>Select whether or not printing is permitted when public authentication is used.</li></ul>  |
|                | User Registration           | <ul style="list-style-type: none"><li>Register a new user.</li><li>Edit the registered user information.</li><li>Delete the registered user.</li></ul>   |
| Date/Time      | Time Adjustment Settings    | <ul style="list-style-type: none"><li>Select whether or not the time is automatically adjusted with NTP. If the time is automatically adjusted with NTP, specify the NTP server address, the NTP server port number, and the time difference from GMT.</li></ul> |
| Save Settings  |                             | <ul style="list-style-type: none"><li>Save the machine settings as a file on the computer.</li><li>Send the settings file to the machine and overwrite the machine settings.</li></ul>   |

NARRATION: This is a list of setting items that can be set only from the system page of PageScope Web Connection. These items cannot be set from the control panel.

## System Page [2/2]

| Subtopics                    |  | Description  |
|------------------------------|--|--|
| <b>Maintenance</b>           | <b>Clear Settings</b>                      | <ul style="list-style-type: none"> <li>Reset the printer settings to their defaults.</li> <li>Reset the network settings to their defaults.</li> <li>Reset all settings to their defaults.</li> </ul>  |
| <b>Notification Settings</b> | <b>Status Notification Settings</b>        | <ul style="list-style-type: none"> <li>Specify the IP address of the SNMP trap receiver, the port number of the SNMP trap, and the community name for the SNMP trap.</li> <li>Specify the IPX address of the SNMP trap receiver, the node address of the SNMP trap receiver, and the community name for the SNMP trap.</li> <li>Specify whether or not a notification is sent by e-mail when a warning occurs in the machine.<br/>If a notification is sent by e-mail, specify the e-mail address where the notification is sent.<br/>If a notification is sent by e-mail, specify the type of alert that sends notification.</li> </ul> |
|                              | <b>Total Counter Notification Settings</b> | <ul style="list-style-type: none"> <li>Specify the model name that appears in e-mail messages sent as notifications of the total counter for this machine.</li> <li>Specify settings for the notification schedules.</li> <li>Specify the destination e-mail address and select a notification schedule.</li> </ul>  |

NARRATION: This is a continuation of the setting items list that can be set only from the system page of PageScope Web Connection.

## Print Page

### ❖ Public User/Registered User

| Subtopics    | Description   |
|--------------|---|
| Direct Print | <ul style="list-style-type: none"><li>▪ Send the specified file to the printer.</li></ul> |

### ❖ Administrator

| Subtopics          | Description   |
|--------------------|---|
| Download Font/Form | <b>PS Font</b> <ul style="list-style-type: none"><li>▪ Download the specified PostScript font file to the machine.</li><li>▪ Delete the selected PostScript font file(s) from the machine.</li><li>* <i>This item can be performed from the Download Manager.</i></li></ul>   |
|                    | <b>Form Overlay</b> <ul style="list-style-type: none"><li>▪ Download the specified form overlay file to the machine.</li><li>▪ Delete the selected form overlay file(s) from the machine.</li><li>* <i>This item can be performed from the Download Manager.</i></li></ul>    |
|                    | <b>Color Profile</b> <ul style="list-style-type: none"><li>▪ Download the specified color profile file to the machine.</li><li>▪ Delete the selected color profile file(s) from the machine.</li><li>* <i>This item can be performed from the Download Manager.</i></li></ul> |

NARRATION: This is a list of setting items that can be set only from the print page of PageScope Web Connection. These items cannot be set from the control panel.

## Scan Page

### ❖ Administrator

| Subtopics                              | Description   |
|--|---|
| Speed Dial Setting                     | <ul style="list-style-type: none"><li>▪ Register an FTP address and SMB address as a speed dial.</li><li>▪ Edit the registered speed dial information of FTP address and SMB address.</li><li>▪ Delete the registered speed dial of FTP address and SMB address.</li><li>* <i>E-mail and fax destinations can be registered from the control panel.</i></li><li>* <i>This item can be performed from the Local Setup Utility (LSU).</i></li></ul> |
| Downloading/Uploading Destination List | <ul style="list-style-type: none"><li>▪ Download the registered destinations as a file on the computer being used.</li><li>▪ Upload the destinations to the machine.</li></ul>  |

NARRATION: This is a list of setting items that can be set only from the scan page of PageScope Web Connection. These items cannot be set from the control panel.



## Network Page [1/3]

### ❖ Administrator

| Subtopics |                      | Description   |
|-----------|----------------------|---|
| TCP/IP    | TCP/IP               | <ul style="list-style-type: none"> <li>Select whether or not LPD is used.</li> <li>Select whether or not LLMNR is used.</li> </ul>  |
|           | IPv4 Settings        | <ul style="list-style-type: none"> <li>Select whether or not the default DNS domain name is automatically acquired from the DHCP server to overwrite the current setting.</li> <li>Select whether or not the DNS server address is automatically acquired from the DHCP server to overwrite the current setting.</li> </ul>   |
|           | IPv6 Settings        | <ul style="list-style-type: none"> <li>Specify the IPv6 global address.</li> <li>Specify the IPv6 gateway address.</li> <li>Select whether or not DHCPv6 is used.</li> <li>Select whether or not the DNS server address is automatically acquired from the DHCPv6 server to overwrite the current setting.</li> <li>Select whether or not the default DNS search domain name is automatically acquired from the DHCPv6 server to overwrite the current setting.</li> <li>Select whether or not the NTP server address is automatically acquired from the DHCPv6 server to overwrite the current setting.</li> </ul> |
|           | RAW Port Settings    | <ul style="list-style-type: none"> <li>Specify the number of the machine's RAW port.</li> </ul>   |
|           | DNS Settings         | <ul style="list-style-type: none"> <li>Specify the DNS settings.</li> <li>* <i>Whether to use Dynamic DNS function can be selected from the control panel.</i></li> </ul>   |
|           | IP Address Filtering | <ul style="list-style-type: none"> <li>Specify the range of IP addresses permitted access to the machine.</li> <li>Specify the range of IP addresses refused access to the machine.</li> </ul>  |
|           | IPsec                | <ul style="list-style-type: none"> <li>Specify the IPsec settings.</li> <li>* <i>Whether to use IPsec function can be selected from the control panel.</i></li> </ul>   |

NARRATION: This is a list of setting items that can be set only from the network page of PageScope Web Connection. These items cannot be set from the control panel.

## Network Page [2/3]

| Subtopics |            | Description  |
|-----------|------------|--|
| Bonjour   |            | <ul style="list-style-type: none"> <li>Specify the Bonjour name for the printer.</li> <li>Specify the connection protocol given priority with Bonjour.</li> </ul>  |
| LDAP      |            | <ul style="list-style-type: none"> <li>Specify the port number of the LDAP server when SSL is used.</li> </ul>   |
| WSD       |            | <ul style="list-style-type: none"> <li>Select whether or not WSD communication is performed with SSL.</li> </ul>   |
| LLTD      |            | <ul style="list-style-type: none"> <li>Select whether or not LLTD is used.</li> </ul>  |
| NetWare   | NetWare    | <ul style="list-style-type: none"> <li>Specify the NetWare settings.</li> <li><i>* Whether to use NetWare print option can be selected from the control panel.</i></li> </ul>  |
| IPP       |            | <ul style="list-style-type: none"> <li>Specify the IPP settings.</li> <li><i>* Whether to use IPP print option can be selected from the control panel.</i></li> </ul>  |
| FTP       | Client     | <ul style="list-style-type: none"> <li>Specify the address when using via proxy server.</li> <li>Specify the port number for the proxy server.</li> <li>Select the amount of time (in seconds) until the connection with the FTP server times out.</li> </ul>                            |
| SNMP      |            | <ul style="list-style-type: none"> <li>Specify the SNMP settings.</li> <li><i>* Whether to use SNMP function can be selected from the control panel.</i></li> </ul>  |
| AppleTalk |            | <ul style="list-style-type: none"> <li>Specify the printer name.</li> <li>Specify the zone name.</li> </ul>  |
| E-mail    | Send Email | <ul style="list-style-type: none"> <li>Specify whether or not scan sending is used.</li> <li>Specify the time period to access the SMTP server after logging in to the POP server.</li> <li>Specify the realm, if [Digest-MD5] is selected as the SMTP authentication method.</li> </ul> |

NARRATION: This is a continuation of the setting items list that can be set only from the network page of PageScope Web Connection.

## Network Page [3/3]

| Subtopics      |                         | Description   |
|----------------|-------------------------|---|
| SMB            | Send SMB                | <ul style="list-style-type: none"> <li>Select the version of NTLM setting.</li> <li>Select whether or not NTLM user authentication is performed.</li> <li>Select whether or not SMB transmission in a distributed file system (DFS) environment is performed.</li> </ul>  |
|                | Direct Hosting Settings | <ul style="list-style-type: none"> <li>Select whether or not direct hosting of SMB is used.</li> </ul>  |
| SSL/TLS        |                         | <ul style="list-style-type: none"> <li>Create a self-signed certificate.</li> <li>Create data for requesting that a certificate to be issued from a certificate authority.</li> <li>Install a certificate issued by the certificate authority.</li> <li>Specify the encryption level.</li> <li>Remove the certificate.</li> <li>Specify the SSL transmission mode.</li> </ul> |
| Authentication | User Authentication     | <ul style="list-style-type: none"> <li>Select whether or not user authentication is performed.</li> <li>Select whether or not logon as a public user is permitted when authentication settings have been specified.</li> </ul>  |
|                | IEEE802.1x              | <ul style="list-style-type: none"> <li>Specify the IEEE802.1x settings.</li> <li><i>* Whether to use IEEE802.1x function can be selected from the control panel.</i></li> </ul>   |
|                | CA Certificate          | <ul style="list-style-type: none"> <li>Install the certificate issued by the certificate authority.</li> <li>Remove the certificate.</li> </ul>   |

NARRATION: Again, a continuation of the setting items list that can be set only from the network page of PageScope Web Connection.

**Lesson 2 Quiz**



Question 1 of 3 Point Value: 40

Which environment uses PageScope Web Connection? (select the two that apply)

- A local (USB) connection, to which both your computer and the machine are connected.
- A network, to which both your computer and the machine are connected.
- Netscape Navigator version 7 or later is used.
- TCP/IP communication software installed on your computer.

**PROPERTIES**

On passing, 'Finish' button: [Goes to Next Slide](#)  
On failing, 'Finish' button: [Goes to Next Slide](#)  
Allow user to leave quiz: [At any time](#)  
User may view slides after quiz: [At any time](#)  
User may attempt quiz: [Unlimited times](#)

 Properties...  Edit in Quizmaker

NARRATION: This is the review quiz for this lesson.

## 2.6 Lesson 2 Review

### Lesson 2

In this lesson you learned to:

- 1) Describe the PageScope Web Connection specifications.
- 2) Identify the displayed items.
- 3) Log on to PageScope Web Connection.
- 4) Describe the setting items of displayed pages.
- 5) Describe the setting items that can be set only from PageScope Web Connection.

NARRATION: In this lesson, you learned about the following items.

## Lesson 3: Copy Functions

### Lesson 3

Topics covered in the lesson include:

- 3.1 Copy Specifications
- 3.2 Process of Basic Operation
- 3.3 Copy Settings
- 3.4 Convenient Copy Functions
- 3.5 Lesson 3 Review

NARRATION: The following “copy function” topics will be covered in this lesson.

## 3.1 Copy Specifications

|  |                       |   | bizhub C20                             | bizhub C25   | bizhub C35      |
|--|-----------------------|---|--|--|-----------------|
| <b>Copy Speed (A4)</b>                 | <b>Original Glass</b> | <b>Monochrome</b>                                     | 24 pages/minute                        | 24 pages/minute  | 30 pages/minute |
|  |                       | <b>Full Color</b>                                     | 24 pages/minute                        | 24 pages/minute  | 30 pages/minute |
|  | <b>ADF</b>            | <b>Monochrome</b>                                     | 24 pages/minute                        | 20 pages/minute  | 30 pages/minute |
|  |                       | <b>Full Color</b>                                     | 20 pages/minute                        | 10 pages/minute  | 30 pages/minute |
| <b>First Copy Out Time (A4/Letter)</b> | <b>Monochrome</b>     | 25.0 seconds or less                                  | 11.0 seconds or less                   | 10.1 seconds or less   |                 |
|  | <b>Full Color</b>     | 28.0 seconds or less                                  | 16.0 seconds or less                   | 12.0 seconds or less   |                 |
| <b>Copy Resolution</b>                 | <b>Print</b>          | 600 dpi x 600 dpi x 1bit<br>1200 dpi x 600 dpi x 1bit | 600 dpi x 600 dpi x 2 bit              | 600 dpi x 600 dpi x 3bit                                     |                 |
|  | <b>Scan</b>           | 600 dpi x 600 dpi x 8bit<br>600 dpi x 300 dpi x 8bit  | 600 dpi x 600 dpi<br>600 dpi x 300 dpi | 600 dpi x 600 dpi<br>600 dpi x 1200 dpi<br>600 dpi x 300 dpi |                 |
| <b>Copy Function</b>                   | <b>Collate (Sort)</b> | Supported   | Supported                              | Supported  |                 |
|  | <b>2in1, 4in1</b>     | Supported   | Supported                              | Supported  |                 |
|  | <b>Duplex Copy</b>    | Supported   | Supported                              | Supported  |                 |
|  | <b>ID Card Copy</b>   | Supported   | Supported                              | Supported  |                 |
|  | <b>Reduce/Enlarge</b> | 25 % - 400 %  | 25 % - 400 %                           | 25 % - 400 %<br>25 % - 200 % (ADF)                           |                 |
|  | <b>Copies</b>         | 1 - 99  | 1 - 99                                 | 1 - 999  |                 |
|  | <b>Poster Copying</b> | Supported   | Supported                              | Not Supported  |                 |
| <b>Repeat Copying</b>                  | Supported             | Supported   | Not Supported                          |  |                 |

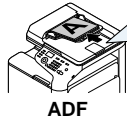
NARRATION: These are the copy specifications. This list identifies differences from existing products.

## 3.2 Process of Basic Operation

### Position the document to be copied.



Original glass



ADF

#### \* Notes for loading the document into the ADF

- Check that no document pages remain on the original glass.
- The maximum number of sheets able to be placed is 35 (media weight:80g/m<sup>2</sup>).
- Do not load the pages bound together with paper clips or staples.

### Press the [Copy] key to enter the copy mode.

### Specify the copy settings.

- As necessary, specify the paper selection, the zoom ratio (fixed zoom ratio, manual zoom ratio), the quality (mode, density, sharpness), the finishing process, the original combination (1in1 ~ 4in1), the simplex or duplex mode, or the copy function (normal copy, ID card copy, repeat copy, poster copy).

### Specify the number of copies.

- Specify the desired number of copies using the key pad.

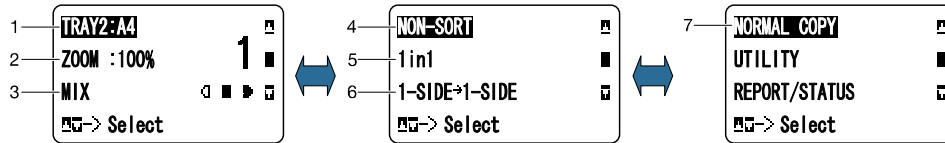
### Press the [Start] key.

- To print color copies, press the [Start (Color)] key. To print monochrome copies, press the [Start (B&W)] key.  
Copying begins.

NARRATION: This is an explanation of the general procedure for making copies.



### 3.3 Copy Settings



| No. | Setting Item     | Choice   | Description  |
|-----|------------------|--|--|
| 1   | PAPER SELECT     | TRAY1, TRAY2, TRAY3  | Select the media tray.   |
| 2   | ZOOM RATIO       | FIXED  | In metric dimensions: 25%, 50%, 70%, 86%, 100%, 115%, 141%, 200%, 400%<br>In inch dimensions: 25%, 50%, 64%, 78%, 100%, 129%, 154%, 200%, 400% |
|     |                  | MANUAL   | 25% - 400%   |
| 3   | QUALITY          | MODE   | MIX, TEXT, PHOTO, FINE/MIX, FINE/TEXT, FINE/PHOTO  |
|     |                  | DENSITY  |  |
|     |                  | SHARPNESS  |  |
| 4   | COPY FINISHING   | NON-SORT, SORT   | Set collated (sort) copying.   |
| 5   | COMBINE ORIGINAL | 1in1, 2in1, 4in1   | Set 2in1 or 4in1 copying.  |
| 6   | SIMPLEX/DUPLEX   | 1-SIDE→1-SIDE, 1-SIDE→2-SIDE, 2-SIDE→1-SIDE, 2-SIDE→2-SIDE | Set duplex (double-sided) copying.   |
| 7   | COPY FUNCTION    | NORMAL COPY, ID CARD COPY, REPEAT COPY, POSTER COPY        | Set a copy function.   |

NARRATION: This is an explanation of the copy settings. When you press the [Copy] key, the following screens are displayed.

If the optional Lower Feeder Unit is not installed, "TRAY3" does not appear in "PAPER SELECT".

## 3.4 Convenient Copy Functions

- Collated (Sort) Copy
- 2in1/4in1 Copy
- Duplex (Double-Sided) Copy
- ID Card Copy
- Repeat Copy
- Poster Copy

NARRATION: This section will cover the “convenient copy functions”.

## Collated (Sort) Copy

❖ **Control Panel:** [Copy] key → COPY FINISHING → SORT

### ❖ **Operation Procedures**

- 1) Position the document on the original glass or the ADF.
- 2) Press the [Copy] key to enter the copy mode.
- 3) Specify the desired copy settings.  
**Select “SORT” in “COPY FINISHING”.**
- 4) Specify the desired number of copies using the keypad.
- 5) To print color copies, press the [Start (Color)] key. To print monochrome copies, press the [Start (B&W)] key. Scanning of the document begins.
- 6) Operate the following if the document was positioned on the original glass.
  - ❖ When “NEXT PAGE?” appears in the message window, position the next document page on the original glass, and then press the [Select] key.
  - ❖ Repeat this step until all document pages have been scanned.
  - ❖ After all document pages have been scanned, press the [Start (Color)] key or the [Start (B&W)] key to begin printing.

NARRATION: With collated copying, multiple copies of multi-page documents can be printed in order and sorted by copy set.

## 2in1/4in1 Copy

❖ **Control Panel:** [Copy] key → COMBINE ORIGINAL

|      | Description  |
|------|--|
| 2in1 | Two document pages can be copied together onto a single page.  |
| 4in1 | Four document pages can be copied together onto a single page. |

### ❖ Operation Procedures

- 1) Position the document on the original glass or the ADF.
- 2) Press the [Copy] key to enter the copy mode.
- 3) Specify the desired copy settings.  
**Select “2in1” or “4in1” in “COMBINE ORIGINAL”.**
  - \* *The zoom ratio is automatically set according to the specified media size. Change the zoom ratio if necessary.*
- 4) Specify the desired number of copies using the keypad.
- 5) To print color copies, press the [Start (Color)] key. To print monochrome copies, press the [Start (B&W)] key. Scanning of the document begins.
- 6) Operate the following if the document was positioned on the original glass.
  - ❖ When “NEXT PAGE?” appears in the message window, position the next document page on the original glass, and then press the [Select] key.
  - ❖ Repeat this step until all document pages have been scanned.
  - ❖ After all document pages have been scanned, press the [Start (Color)] key or the [Start (B&W)] key to begin printing the remaining pages.

NARRATION: This is an explanation of the 2in1/4in1 copy process.

## Duplex (Double-Sided) Copy

❖ **Control Panel:** [Copy] key → SIMPLEX/DUPLEX

|                      | Description  |
|----------------------|--|
| <b>1-SIDE→2-SIDE</b> | Two single-sided document pages can be scanned and printed onto a single sheet of paper. |
| <b>2-SIDE→2-SIDE</b> | A double-sided document can be scanned and printed as either a double-sided copy.        |

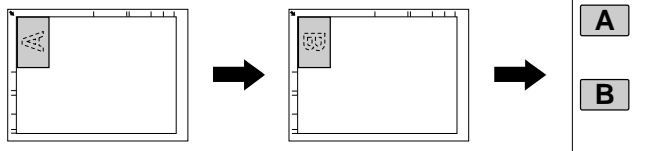
### ❖ Operation Procedures

- 1) Position the document on the original glass or the ADF.
  - \* 2-SIDE→2-SIDE copying can only be performed from the ADF.
- 2) Press the [Copy] key to enter the copy mode.
- 3) Specify the desired copy settings.  
**Select "1-SIDE→2-SIDE" or "2-SIDE→2-SIDE" in "SIMPLEX/DUPLEX".**
- 4) If the "2-SIDE→2-SIDE" was selected, select "LONG EDGE" or "SHORT EDGE" as the binding position in the document to be scanned, and then press the [Select] key.
- 5) Select "LONG EDGE" or "SHORT EDGE" as the binding position of the duplex copy, and then press the [Select] key.
- 6) Specify the desired number of copies using the keypad.
- 7) To print color copies, press the [Start (Color)] key. To print monochrome copies, press the [Start (B&W)] key. The front side of the document is scanned.
- 8) If the document was positioned on the original glass, "NEXT PAGE?" appears in the message window. Position the second document page on the original glass, and then press the [Select] key. After the second page (back side) is scanned, printing begins automatically.
- 9) If the "2-SIDE→2-SIDE" was selected, position the document into the ADF for the back side to be scanned, and then press the [Select] key. The back side of the document is scanned, and then the duplex copy is printed.

NARRATION: This is an explanation of the duplex copy process.

## ID Card Copy

❖ **Control Panel:** [Copy] key → COPY FUNCTION → ID CARD COPY



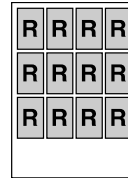
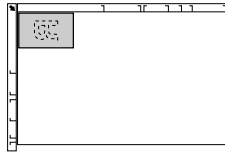
### ❖ Operation Procedures

- 1) Position the front side of the document on the original glass.
  - \* ID card copying can only be performed with the original glass.
- 2) Press the [Copy] key to enter the copy mode.
- 3) Specify the desired copy settings.  
**Select "ID CARD COPY" in "COPY FUNCTION".**
  - \* The zoom ratio is automatically set, and cannot be changed.
  - \* The paper sizes that are available for ID card copying are A4, Letter, and Legal.
- 4) Specify the desired number of copies using the keypad.
- 5) To print color copies, press the [Start (Color)] key. To print monochrome copies, press the [Start (B&W)] key. Scanning of the document begins.
- 6) When "NEXT PAGE?" appears in the message window, position the back side of the document at the same location as the front side, and then press the [Select] key. After the back side has been scanned, printing automatically begins.

**NARRATION:** With ID card copying, the front and back of a document, such as a certificate, are copied at full size on a single sheet of paper.

## Repeat Copy

❖ **Control Panel:** [Copy] key → COPY FUNCTION → REPEAT COPY



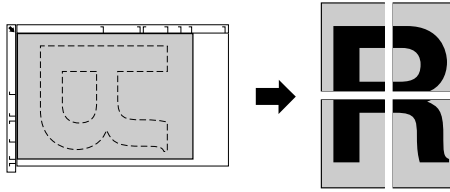
### ❖ Operation Procedures

- 1) Position the document on the original glass.
  - \* *Repeat copying can only be performed with the original glass.*
- 2) Press the [Copy] key to enter the copy mode.
- 3) Specify the desired copy settings.  
**Select "REPEAT COPY" in "COPY FUNCTION".**  
When the "How to Repeat Copy" screen appears in the message window, check the settings, and then press the [Select] key.
  - \* *The zoom ratio is automatically set, and cannot be changed.*
- 4) Specify the desired number of copies using the keypad.
- 5) To print color copies, press the [Start (Color)] key. To print monochrome copies, press the [Start (B&W)] key.
- 6) Use the keypad to type in the document length, and then press the [Select] key.
- 7) Use the keypad to type in the document width, and then press the [Select] key. After the document has been scanned, printing automatically begins.

NARRATION: With repeat copying, small documents, such as memos, are tiled and printed on a single page.

## Poster Copy

❖ **Control Panel:** [Copy] key → COPY FUNCTION → POSTER COPY



### ❖ Operation Procedures

- 1) Position the document on the original glass.
  - \* *Poster copying can only be performed with the original glass.*
- 2) Press the [Copy] key to enter the copy mode.
- 3) Specify the desired copy settings.  
**Select "POSTER COPY" in "COPY FUNCTION".**
  - \* *The zoom ratio is automatically set, and cannot be changed.*
- 4) Specify the desired number of copies using the keypad.
- 5) To print color copies, press the [Start (Color)] key. To print monochrome copies, press the [Start (B&W)] key. After the document has been scanned, printing automatically begins.

NARRATION: With poster copying, the length and width of the scanned document are each enlarged 200%, and printed on four pages. If the scanned image does not fit on the size of paper that is used, there may be margins on the sides of the image or the image may not fit in the paper.



**Lesson 3 Quiz**



Question 1 of 3 Point Value: 33

Which copy function is used to line up small documents, and to print on a single page?

- Repeat Copy
- Poster Copy
- Collated Copy
- Duplex Copy

**PROPERTIES**

On passing, 'Finish' button: [Goes to Next Slide](#)  
On failing, 'Finish' button: [Goes to Next Slide](#)  
Allow user to leave quiz: [At any time](#)  
User may view slides after quiz: [At any time](#)  
User may attempt quiz: [Unlimited times](#)

 Properties...  Edit in Quizmaker

NARRATION: This is the review quiz for this lesson.

## 3.5 Lesson 3 Review

### Lesson 3

In this lesson you learned to:

- 1) Describe the copy specifications.
- 2) Describe the general procedure for making copies.
- 3) Specify the settings of copy function.
- 4) Operate the various convenient copy functions.

NARRATION: In this lesson, you learned about the following items.

## Lesson 4: Print Functions

### Lesson 4

Topics covered in the lesson include:

- 4.1 Print Specifications
- 4.2 System Requirements
- 4.3 Printer Driver Settings
- 4.4 Limitations of Printer Driver Functions
- 4.5 Uninstalling the Printer Driver
- 4.6 Network Printing
- 4.7 Convenient Print Functions
- 4.8 Lesson 4 Review

NARRATION: The following “print function” topics will be covered in this lesson.

## 4.1 Print Specifications

|                                |                              | bizhub C20  | bizhub C25  | bizhub C35  |
|--------------------------------|------------------------------|---|---|---|
| <b>Print Speed (A4)</b>        | <b>Monochrome</b>            | 24 pages/minute   | 24 pages/minute   | 30 pages/minute   |
|                                | <b>Full Color</b>            | 24 pages/minute   | 24 pages/minute   | 30 pages/minute   |
| <b>First Print (A4/Letter)</b> | <b>Monochrome</b>            | 18.0 seconds  | 16.0 seconds  | 12.9 seconds or less                                      |
|                                | <b>Full Color</b>            | 18.0 seconds  | 16.0 seconds  | 12.9 seconds or less                                      |
| <b>Printing Resolution</b>     |                              | 600 dpi x 600 dpi x 4bit                                  | 600 dpi x 600 dpi x 3bit                                  | 600 dpi x 600 dpi x 3bit                                  |
| <b>Job Control Language</b>    |                              | PJL Command Language                                      | PJL Command Language                                      | PJL Command Language                                      |
| <b>Print Function</b>          | <b>Job Retention</b>         | HDD is required   | HDD is required   | Supported   |
|                                | <b>Tray Chain</b>            | Supported   | Supported   | Supported   |
|                                | <b>Tray Mapping</b>          | Supported   | Supported   | Supported   |
|                                | <b>Collate</b>               | HDD or CompactFlash Card is required                      | HDD or CompactFlash Card is required                      | Supported   |
|                                | <b>N-up Printing</b>         | Supported   | Supported   | Supported   |
|                                | <b>Booklet Printing</b>      | Supported   | Supported   | Supported   |
|                                | <b>Poster Mode</b>           | Supported (PCL only)                                      | Supported (PCL only)                                      | Supported (PCL only)                                      |
|                                | <b>Economy Print</b>         | Supported   | Supported   | Supported   |
|                                | <b>Accounting Features</b>   | Not Supported   | Supported   | Supported   |
|                                | <b>Security</b>              | IPP over SSL, IP Filtering, IPsec (IPv6), WSD, IEEE802.1x | IPP over SSL, IP Filtering, IPsec (IPv6), WSD, IEEE802.1x | IPP over SSL, IP Filtering, IPsec (IPv6), WSD, IEEE802.1x |
| <b>Direct Print</b>            | Camera Direct, Memory Direct | Memory Direct   | Memory Direct   |   |

NARRATION: These are the print specifications. This list identifies differences from existing products.

## 4.2 System Requirements

|                             | Windows  | Mac OS X  | Linux   |
|-----------------------------|--|---|---|
| <b>CPU</b>                  | <ul style="list-style-type: none"> <li>Intel Pentium II: 400 MHz or higher</li> </ul>  | <ul style="list-style-type: none"> <li>PowerPC G3 or later (PowerPC G4 or later is recommended)</li> <li>Intel processor</li> </ul> | <ul style="list-style-type: none"> <li>Intel Pentium II: 400 MHz or higher</li> </ul>   |
| <b>Operating System</b>     | <ul style="list-style-type: none"> <li>[32bit] Windows 7 Home Premium/Professional/Ultimate/Enterprise, Windows XP Home Edition/Professional (Service Pack 2 or later), Windows Vista Home Basic/Home Premium/Ultimate/Business/Enterprise (Service Pack 1), Windows Server 2003, Windows Server 2008 Standard/Enterprise</li> <li>[64bit] Windows 7 Home Premium/Professional/Ultimate/Enterprise, Windows XP Professional, Windows Vista Home Basic/Home Premium/Ultimate/Business/Enterprise, Windows Server 2003, Windows Server 2008 Standard/Enterprise, Windows Server 2008 R2 Standard/Enterprise</li> </ul> | <ul style="list-style-type: none"> <li>Mac OS X (10.3/10.4/10.5/10.6; We recommend installing the latest patch)</li> </ul>          | <ul style="list-style-type: none"> <li>Red Hat Enterprise Linux 5 Desktop (CUPS Ver.1.2.4)</li> <li>SUSE Linux Enterprise Desktop 10 (CUPS Ver.1.1.23)</li> </ul> |
| <b>Free Hard Disk Space</b> | <ul style="list-style-type: none"> <li>256 MB or more</li> </ul>   | <ul style="list-style-type: none"> <li>256 MB or more (for storing images)</li> </ul>   | <ul style="list-style-type: none"> <li>256 MB or more</li> </ul>  |
| <b>RAM</b>                  | <ul style="list-style-type: none"> <li>128 MB or more</li> </ul>   | <ul style="list-style-type: none"> <li>128 MB or more</li> </ul>  | <ul style="list-style-type: none"> <li>128 MB or more</li> </ul>  |
| <b>Network</b>              | <ul style="list-style-type: none"> <li>LPD</li> <li>IPP</li> <li>RAW port</li> <li>Web Service Print [Window 7/Vista/Server 2008/Server 2008 R2]</li> </ul>  | <ul style="list-style-type: none"> <li>AppleTalk</li> <li>Rendezvous/Bonjour</li> <li>IP Printing (IPP, LPD, Socket)</li> </ul>     | <ul style="list-style-type: none"> <li>AppSocket/HP JetDirect</li> <li>Internet Printing Protocol (ipp)</li> <li>LPD/LPR Host Printer</li> </ul>                  |

**NARRATION:** Before installing the printer driver, make sure that your system meets these system requirements, and that the computer is equipped with a built-in or external CD/DVD-ROM drive.

## 4.3 Printer Driver Settings

- Windows
- Mac OS X
- Linux
- NetWare

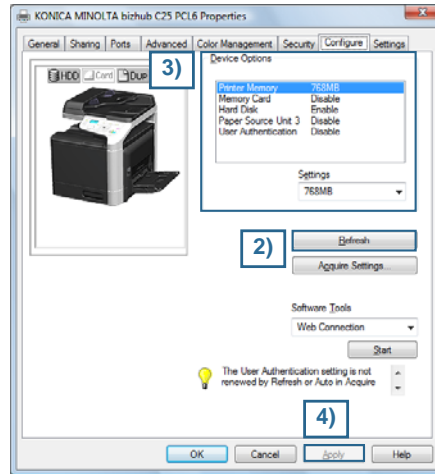
NARRATION: This section will cover the “printer driver settings”.

## Windows [1/2]

### ❖ Device Options

If you have options installed, right-click the printer icon, then click “(Printer) Properties”, and then select the “Configure” tab.

- 1) Check that the installed options are correctly listed.
- 2) If not, click [Refresh] to automatically configure the installed options.
  - \* *The [Refresh] is available only if bi-directional communication is available with the machine; otherwise it is grayed out.*
- 3) If you cannot use [Refresh], select an option one at a time from the “Device Options” list, and then select “Enable” or “Disable” from the “Settings” menu.
  - ❖ If “Printer Memory” is selected, select “256MB” or “768MB” according to the installed memory.
  - ❖ If “Memory Card” is selected, select “Disable” or “Enable (1GB Over)” according to the installed CompactFlash card.
- 4) Click [Apply].



NARRATION: If you have options installed, you should “declare” the options in the driver.

## Windows [2/2]

### ❖ Printing Preferences

If you display the printer driver settings, right-click the printer icon, then click "Printing Preferences".

#### PCL6 Printer Driver

[Printer Driver Simulation](#)

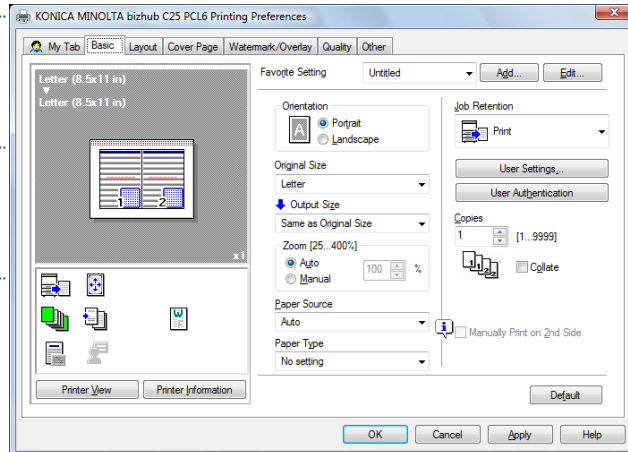
#### PS Printer Driver

[Printer Driver Simulation](#)

#### XPS Printer Driver

[Printer Driver Simulation](#)

[Printer Driver Settings](#)



NARRATION: Before you start a print operation with your machine, you are advised to verify/change the default printer driver settings. Select the default settings for your machine, such as the orientation you use, in the appropriate tabs.

Click on the links and use the printer driver simulation to check the setting items. In the printer driver simulation, only the button enclosed with the red frame can be operated.

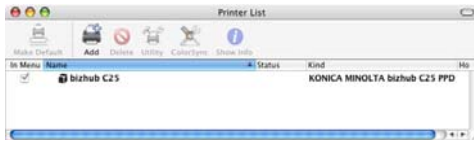
For details regarding the printer driver settings, click on the link.



# Mac OS X [1/5]

## ❖ Printer Settings

Mac OS X 10.3



Mac OS X 10.4



Mac OS X 10.5/10.6



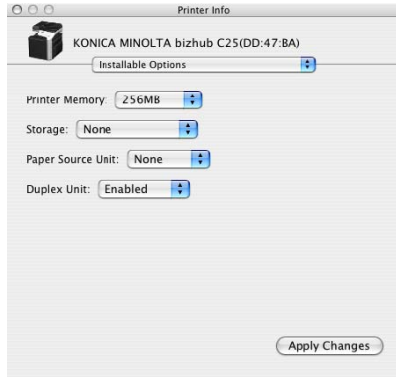
NARRATION: This is an explanation of the procedure for adding this machine to the printer list. For details regarding the procedure, click on the links.

## Mac OS X [2/5]

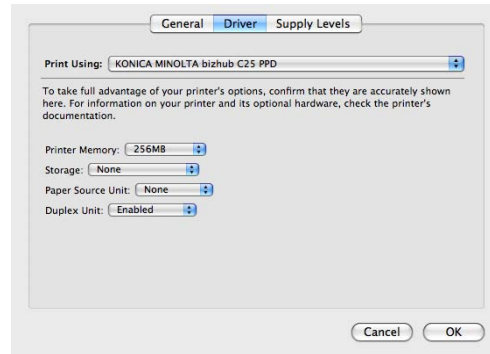
### ❖ Print Options

[Mac OS X 10.3](#)

[Mac OS X 10.4](#)



[Mac OS X 10.5/10.6](#)

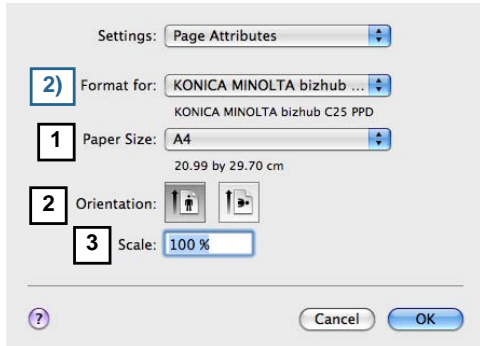


NARRATION: This is an explanation of the procedure for selecting the print options. For details regarding the procedure, click on the links.

## Mac OS X [3/5]

### ❖ Page Setup Settings

- 1) Select "Page Setup" from the "File" menu in the application being used.
- 2) Select this printer in the "Format for" pop-up menu of the opened "Page Setup" dialog box.



| No. | Item        | Description   |
|-----|-------------|---|
| 1   | Paper Size  | Select the desired paper size from the pop-up menu.<br>When "Manage Custom Sizes" is selected, the "Custom Page Sizes" dialog box appears, and you can specify custom paper size. |
| 2   | Orientation | Select either a vertical or horizontal page orientation for printouts.  |
| 3   | Scale       | Enter the scale ratio (25-400 %) if you want to enlarge or reduce the size of the print out.  |

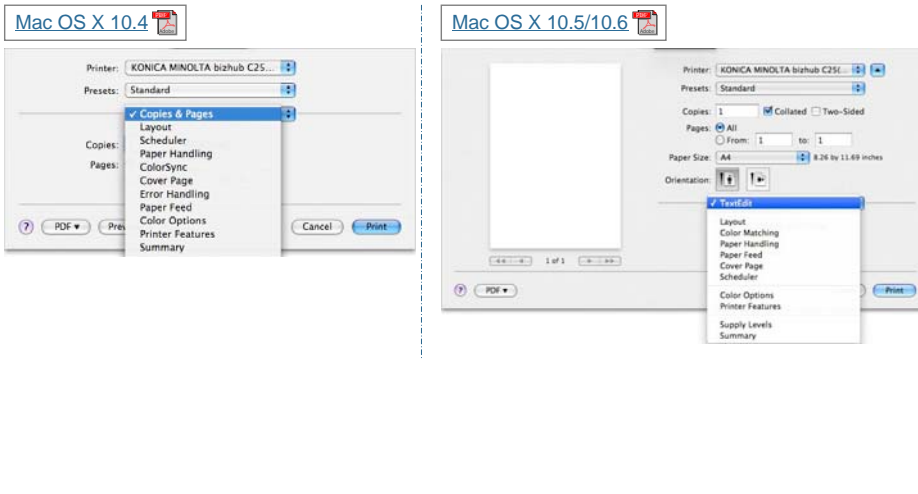
\* *Regardless of which paper size is selected, the machine does not print within 0.165" (4.2 mm) of the edge of the paper.*

NARRATION: This is an explanation of the procedure for specifying the page setup settings. The "Page Setup" dialog box is used to specify the settings for the paper size, print orientation, and scaling, and to also save the new settings as the default. For details regarding the custom paper size, click on the link.

## Mac OS X [4/5]

### ❖ Print Settings

- 1) Select "Print" from the "File" menu in the application being used.
- 2) Select this printer in the "Printer" pop-up menu of the opened "Print" dialog box.



NARRATION: This is an explanation of the procedure for specifying the print settings. For details regarding the setting items, click on the links.

## Mac OS X [5/5]

### ❖ Color Profile

Use Download Manager to download any color profile to the hard disk or the CompactFlash card of this machine. By adding the color profiles to the printer driver, printing can be performed by specifying any color profile.

This procedure for specifying the color profile on Mac OS X 10.5 is described.

#### Preparation

- Install the printer driver, and then add the printer.
- Install the Download Manager.

#### Downloading the Color Profiles

Use Download Manager to download any color profile to the hard disk or the CompactFlash card of this machine.

[Downloading the Color Profiles](#) 

#### Specifying the Printer Driver Settings

Add the color profile to the printer driver.

[Specifying the Printer Driver Settings](#) 

NARRATION: This is an explanation of the procedure for specifying the color profile. For details regarding the procedure, click on the links.

## ❖ Displaying the Settings Page

This operation on Red Hat Enterprise Linux 5 is described.

- 1) Start up the web browser.
- 2) Enter the URL “http://localhost:631”, and then click [Manage Printers].
- 3) The “Printers” page appears.
- 4) Click [Set Printer Options].
- 5) The “Set Printer Options” page appears.

[Printer Driver Settings](#) 



NARRATION: This is an explanation of the procedure for specifying the printer driver settings. For details regarding the printer driver settings, click on the link.

## ❖ Network Printing in a NetWare Environment

| NetWare Version | Protocol Used | Emulation   | Service Mode     |
|-----------------|---------------|-------------|------------------|
| NetWare 4.x     | IPX           | Bindery/NDS | Pserver/Nprinter |
| NetWare 5.x/6   | IPX           | NDS         | Pserver          |
|                 | TCP/IP        | NDPS(lpr)   |                  |

## ❖ Operation on NetWare

- ❖ **PSWC:** In Administrator, "Network" page → "NetWare" → "NetWare"

[Operation on NetWare](#) 



The screenshot shows the NetWare Administrator interface with the following configuration details:

- NetWare:**
  - NetWare Print: Disable
  - Print Type: Auto
  - Mode: Disable
- Printers:**
  - Print Server Name: BHC25-0048E1
  - Print Server Password: [Empty]
  - Printype Password: [Empty]
  - Print Queue Scan Rate: 1 (Send&C(1-4533))
  - BinderyNDG: NDS
  - Printed File Server: [Empty]
  - Printed HGS Client Name: [Empty]
  - Printed HGS Tree Name: [Empty]
- NPrinter/Printer:**
  - Printer Name: BHC25-0048E1
  - Printer Number: 255 (0.255.255.Auto)

Buttons: Apply | Clear

NARRATION: This is an explanation of the procedure for operating this machine on NetWare. For details regarding the settings, click on the link.

## 4.4 Limitations of Printer Driver Functions

If Point and Print is performed with the following server and client combinations, there are limitations on some printer driver functions.

- Server and client combinations  
Server : Windows Server 2003/Server 2008/Server 2008 R2  
Client : Windows 7/XP/Vista
- Function with limitations applied  
Skip Blank Pages (PCL and XPS printer driver only), Booklet, Front Cover Page, Back Cover Page, Separator Page, Watermark, Create Overlay (PCL and XPS printer driver only), Print in Overlay

NARRATION: These are the limitations of the printer driver functions when Point and Print is performed.



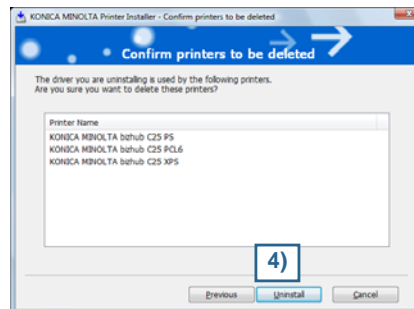
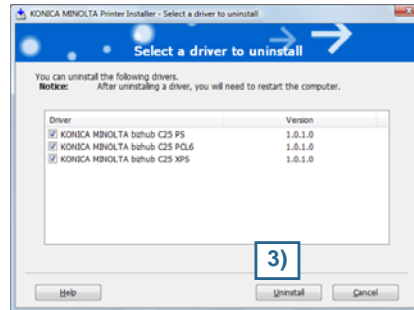
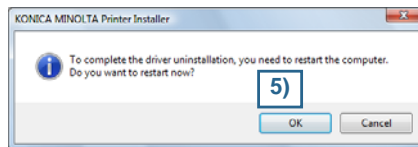
## 4.5 Uninstalling the Printer Driver

- Windows
- Mac OS X

NARRATION: This section will cover “uninstalling the printer driver”.

## Windows

- 1) Close all applications.
- 2) Choose the uninstall program from the "Start" menu → "All programs" → "KONICA MINOLTA" → "bizhub C25" → "Uninstall Printer Driver".
- 3) When the uninstall dialog box appears, select the name of the driver to be deleted, and then click [Uninstall].
- 4) Click [Uninstall].
- 5) Click [OK], and restart your computer.
- 6) The printer driver will be uninstalled from your computer.



NARRATION: This is an explanation of the procedure for uninstalling the windows printer driver if necessary.

## Mac OS X

- 1) Select the name of the printer to be deleted, and then click [Delete] or [-] (delete button).  
For Mac OS X 10.3/10.4: "Applications" → "Utilities" → "Printer Setup Utility"  
For Mac OS X 10.5/10.6: "Apple" menu → "System Preference" → "Print & Fax"
- 2) When the confirmation message appears, click [OK] or [Delete Printer]. The selected printer is deleted. Close the printer list.
- 3) Delete the unnecessary files.
  - ❖ For Mac OS X 10.3/10.4
    - The "KONICA MINOLTA bizhub C25.gz" file in the "Library" → "Printers" → "PPDs" → "Contents" → "Resources" → "en.lproj"
    - The "KONICA MINOLTA bizhub C25 Color.plugin" file in the "Library" → "Printers" → "KONICAMINOLTA" → "PDEs"
    - The "pstobzC25PS" file in the "Library" → "Printers" → "KONICAMINOLTA" → "filter"
    - The "fileExistbzC25.icons" and the "KONICA MINOLTA bizhub C25.icns" file in the "Library" → "Printers" → "KONICAMINOLTA" → "Icons"
    - The "bzC25ps.icc" file in the "Library" → "Printers" → "KONICAMINOLTA" → "Profiles"
    - The "bizhub\_C25\_103104.pkg" file in the "Library" → "Receipts".
  - ❖ For Mac OS X 10.5/10.6
    - The "KONICA MINOLTA bizhub C25.gz" file in the "Library" → "Printers" → "PPDs" → "Contents" → "Resources"
    - The "C25" folder in the "Library" → "Printers" → "KONICAMINOLTA"
    - The "bizhub\_C25\_105.pkg" or the "bizhub\_C25\_106.pkg" file in the "Library" → "Receipts".
- 4) Restart the computer. This completes uninstallation of the Mac OS X printer driver.

NARRATION: If it becomes necessary to delete the Mac OS X printer driver, for example when you want to reinstall it, delete the printer driver according to this procedure.

## 4.6 Network Printing

- Printing via IPP (Internet Printing Protocol)
- Printing via Web Service Print Function

NARRATION: This section will cover “network printing”.

## Printing via IPP (Internet Printing Protocol)

- ❖ You must have administrator privileges in order to install the printer driver.
- ❖ If the "User Account Control" window appears when installing on Windows 7/Vista/Server 2008/Server 2008 R2, click [Continue] or [Yes].
- ❖ For IPP printing, specify the network setting.

### ❖ Preparation

- Enable the IPP print function.
  - ❖ **Control Panel:** "UTILITY" → "ADMIN. MANAGEMENT" → "NETWORK SETTING" → "IPP"  
Select "ENABLE".
  - ❖ **PSWC:** In Administrator, "Network" page → "IPP"  
Select "Enable" in IPP Print.
- Specify the settings in the operating system when using Windows Server 2008/Server 2008 R2.

[Setting Procedure](#) 

### ❖ Adding an IPP Port

[Using the Drivers CD/DVD](#) 

[Using Add Printer Wizard \(Windows XP/Server 2003\)](#) 

[Using Add Printer Wizard \(Windows 7/Vista/Server 2008/Server 2008 R2\)](#) 

NARRATION: IPP is a protocol for end users' most common printing situations over the Internet. It allows users to find out about a printer's capabilities, submit print jobs to a printer, determine the status of the printer or print job, and cancel a previously submitted print job. For details regarding the procedure, click on the links.

## Printing via Web Service Print Function

- ❖ You must have administrator privileges in order to install the printer driver.
- ❖ Before proceeding with the installation, be sure to exit all running applications.
- ❖ If the "User Account Control" window appears when installing, click [Continue] or [Yes].
- ❖ For Web Service Print, specify the network setting.

### ❖ Preparation

- Enable the IPP print function.
  - ❖ **Control Panel:** "UTILITY" → "ADMIN. MANAGEMENT" → "NETWORK SETTING" → "WSD PRINT"  
Select "ENABLE".
  - ❖ **PSWC:** In Administrator, "Network" page → "WSD"  
Select "Enable" in WSD Print.
- Specify the settings in the operating system when using Windows Server 2008/Server 2008 R2.

[Setting Procedure](#) 

### ❖ Setting Procedure

[Setting Procedure](#) 

NARRATION: Printing is possible using the Web Service Print function. A connection supports Web Service Print, detects the printer on the network automatically, and connects. Specifying a Web Service printer when printing from Windows 7/Vista/Server 2008/Server 2008 R2 allows printing using Web Service for communication.

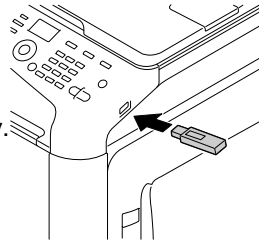
For details regarding the procedure, click on the links.

## 4.7 Convenient Print Functions

- Memory Direct
- Direct Print using PageScope Web Connection

NARRATION: This section will cover the “convenient print functions”.

## Memory Direct

- ❖ Memory direct function can be used only if an optional hard disk or a CompactFlash card is installed.
- 1) Plug the USB memory device into the USB HOST port.
  - 2) In the main screen, select “MEMORY PRINT”, and then press the **[Select]** key.
  - 3) Select “TYPE OF FILES”, and then press the **[Select]** key.
  - 4) Select the type of files to be displayed, and then press the **[Select]** key.
  - 5) Select “LIST OF FILES”, and then press the **[Select]** key.
  - 6) Select the file to be print from the file list, and then press the **[Select]** key.  
If the file to be printed is in a folder, select the folder, and then press the **[Select]** key.
    - \* A maximum of 99 folders and files can be displayed.
    - \* Up to 7 folder levels can be displayed.
  - 7) Specify the desired print settings.
  - 8) Press the **[Start (Color)]** key or the **[Start (B&W)]** key to begin printing.
    - \* Do not unplug the USB memory device from the USB HOST port during memory direct printing.
- 

NARRATION: PDF, XPS, TIFF, and JPEG files saved on USB memory devices can be printed by plugging the USB memory device into the machine. This is the procedure for printing from a connected USB memory.

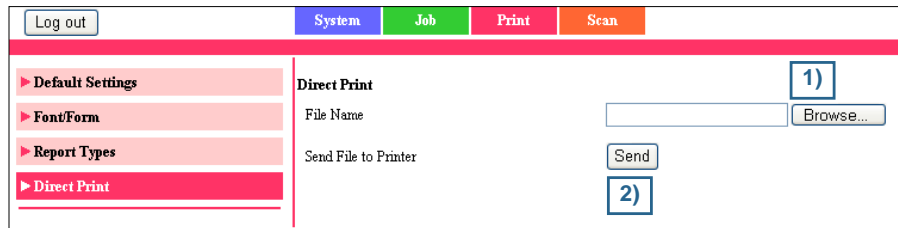


## Direct Print using PageScope Web Connection

- ❖ The “Direct Print” page appears only if an optional hard disk or a CompactFlash card is installed.
- ❖ PDF, XPS, TIFF, and JPG file formats can be printed using direct printing.

### ❖ Operation Procedures

- ❖ **PSWC:** In Public User or Registered User, “Print” page → “Direct Print”



The screenshot shows the 'Direct Print' interface. At the top, there is a navigation bar with buttons for 'Log out', 'System', 'Job', 'Print', and 'Scan'. Below this is a sidebar with expandable sections: 'Default Settings', 'Font/Form', 'Report Types', and 'Direct Print'. The main content area is titled 'Direct Print' and contains a 'File Name' input field with a 'Browse...' button (labeled 1), and a 'Send File to Printer' section with a 'Send' button (labeled 2).

- 1) Click [Browse], and specify the file to be printed.
- 2) Click [Send]. The specified file is sent to the printer.

NARRATION: The “Direct Print” page of PageScope Web Connection allows you to print a file directly from the printer without starting up the application.

**Lesson 4 Quiz** Point Value: 33


Question 1 of 3 ▾


What is the minimum requirement of a CPU to install the Windows printer driver on?

- Pentium II : 400 MHz
- Pentium III : 400 MHz
- Pentium 4 : 1 GHz
- Pentium Pro : 200 MHz

**PROPERTIES**

On passing, 'Finish' button: [Goes to Next Slide](#)  
On failing, 'Finish' button: [Goes to Next Slide](#)  
Allow user to leave quiz: [At any time](#)  
User may view slides after quiz: [At any time](#)  
User may attempt quiz: [Unlimited times](#)

 Properties...

 Edit in Quizmaker

NARRATION: This is the review quiz for this lesson.

## 4.8 Lesson 4 Review

### Lesson 4

In this lesson you learned to:

- 1) Describe the print specifications.
- 2) Describe the system requirements for the printer driver installation of each operating system.
- 3) Specify the printer driver settings of each operating system.
- 4) Describe the limitations of the printer driver functions when Point and Print is performed.
- 5) Uninstall the printer driver.
- 6) Operate the network printing.
- 7) Operate the various convenient print functions.

NARRATION: In this lesson, you learned about the following items.

## Lesson 5: Scan Functions

### Lesson 5

Topics covered in the lesson include:

- 5.1 Scan Specifications
- 5.2 Scanning from a Computer Application
- 5.3 Scanning with the Machine
- 5.4 Lesson 5 Review

NARRATION: The following “scan function” topics will be covered in this lesson.

## 5.1 Scan Specifications

|                        |   | bizhub C20  | bizhub C25  | bizhub C35   |
|------------------------|---|---|---|--|
| <b>Scan Resolution</b> | <b>Optical Scan Resolution (Color/Gray Scale)</b> | 600 x 300 dpi<br>600 x 600 dpi                          | 300 x 300 dpi<br>600 x 300 dpi<br>600 x 600 dpi         | 600 x 300 dpi<br>600 x 600 dpi<br>600 x 1200 dpi                 |
|                        | <b>Scan to XX</b>                                 | 150 x 150 dpi<br>300 x 300 dpi<br>600 x 600 dpi         | 150 x 150 dpi<br>300 x 300 dpi                          | 150 x 150 dpi<br>200 x 200 dpi<br>300 x 300 dpi<br>600 x 600 dpi |
|                        | <b>Network TWAIN</b>                              | 150 dpi, 300 dpi, 600 dpi, 1200 dpi, 2400 dpi, 4800 dpi | 150 dpi, 300 dpi, 600 dpi, 1200 dpi, 2400 dpi, 4800 dpi | 150 dpi, 300 dpi, 600 dpi, 1200 dpi, 2400 dpi, 4800 dpi          |
| <b>File Format</b>     |   | TIFF, PDF, JPEG   | TIFF, PDF, JPEG   | TIFF, PDF, CompactPDF, JPEG, XPS                                 |
| <b>Scanner Driver</b>  | <b>TWAIN Driver</b>                               | Supported   | Supported   | Supported  |
|                        | <b>WIA Driver</b>                                 | Supported   | Supported   | Supported  |
| <b>Scan Function</b>   | <b>Scan to E-mail</b>                             | Supported   | Supported   | Supported  |
|                        | <b>Scan to FTP</b>                                | Supported   | Supported   | Supported  |
|                        | <b>Scan to SMB</b>                                | Supported   | Supported   | Supported  |
|                        | <b>Scan to WebDAV</b>                             | Not Supported   | Not Supported   | Supported  |
|                        | <b>Scan to USB Memory</b>                         | Supported   | Supported   | Supported  |
|                        | <b>Scan to HDD</b>                                | Not Supported   | Not Supported   | Supported  |
|                        | <b>Scan to PC</b>                                 | Supported   | Supported   | Not Supported  |
|                        | <b>Web Service Scan</b>                           | Not Supported   | Not Supported   | Supported  |

NARRATION: These are the scan specifications. This list identifies differences from existing products.

## 5.2 Scanning from a Computer Application

- System Requirements
- Process of Basic Operation
- TWAIN Driver Settings
- WIA Driver Settings

NARRATION: This section will cover “scanning from a computer application”.

## System Requirements

|                             | TWAIN Driver   | WIA Driver   |
|-----------------------------|--|--|
| <b>CPU</b>                  | <ul style="list-style-type: none"> <li>▪ <b>Windows</b><br/>Intel Pentium II: 400 MHz or higher</li> <li>▪ <b>Mac OS X</b><br/>PowerPC G3 or later (PowerPC G4 or later is recommended)<br/>Intel processor</li> </ul>   | <ul style="list-style-type: none"> <li>▪ <b>Windows</b><br/>Intel Pentium II: 400 MHz or higher</li> </ul>   |
| <b>Operating System</b>     | <ul style="list-style-type: none"> <li>▪ <b>Windows</b><br/>[32bit] Windows 7 Home Premium/Professional/Ultimate/Enterprise, Windows XP Home Edition/Professional (Service Pack 2 or later), Windows Vista Home Basic/Home Premium/Ultimate/Business/Enterprise (Service Pack 1), Windows Server 2003, Windows Server 2008 Standard/Enterprise<br/>[64bit] Windows 7 Home Premium/Professional/Ultimate/Enterprise, Windows XP Professional, Windows Vista Home Basic/Home Premium/Ultimate/Business/Enterprise, Windows Server 2003, Windows Server 2008 Standard/Enterprise, Windows Server 2008 R2 Standard/Enterprise</li> <li>▪ <b>Mac OS X</b><br/>Mac OS X (10.3.9/10.4/10.5/10.6; We recommend installing the latest patch)</li> </ul> | <ul style="list-style-type: none"> <li>▪ <b>Windows</b><br/>[32bit] Windows 7 Home Premium/Professional/Ultimate/Enterprise, Windows XP Home Edition/Professional (Service Pack 2 or later), Windows Vista Home Basic/Home Premium/Ultimate/Business/Enterprise (Service Pack 1), Windows Server 2003, Windows Server 2008 Standard/Enterprise<br/>[64bit] Windows 7 Home Premium/Professional/Ultimate/Enterprise, Windows XP Professional, Windows Vista Home Basic/Home Premium/Ultimate/Business/Enterprise, Windows Server 2003, Windows Server 2008 Standard/Enterprise, Windows Server 2008 R2 Standard/Enterprise</li> </ul> |
| <b>Free Hard Disk Space</b> | <ul style="list-style-type: none"> <li>▪ 256 MB or more</li> </ul>   | <ul style="list-style-type: none"> <li>▪ 256 MB or more</li> </ul>   |
| <b>RAM</b>                  | <ul style="list-style-type: none"> <li>▪ 128 MB or more</li> </ul>   | <ul style="list-style-type: none"> <li>▪ 128 MB or more</li> </ul>   |

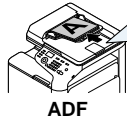
**NARRATION:** Before installing the scanner driver, make sure that your system meets these system requirements, and that the computer is equipped with a built-in or external CD/DVD-ROM drive.

## Process of Basic Operation

### Position the document to be scanned.



Original glass



ADF

#### \* Notes for loading the document into the ADF

- Check that no document pages remain on the original glass.
- The maximum number of sheets able to be placed is 35 (media weight:80g/m<sup>2</sup>).
- Do not load the pages bound together with paper clips or staples.

### Start the application to be used for scanning.

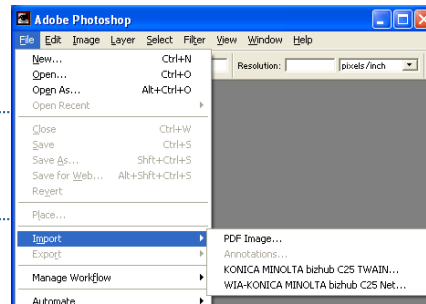
### Start the scanner driver according to the application settings.

- ❖ Select "KONICA MINOLTA bizhub C25 TWAIN" when TWIN driver will be started.
- ❖ Select "WIA-KONICA MINOLTA bizhub C25" when WIA driver will be started.

### Specify the scanner driver settings.

- Specify the necessary scanner driver settings from TWAIN driver or the WIA driver.

### Click [Scan] in the scanner driver.

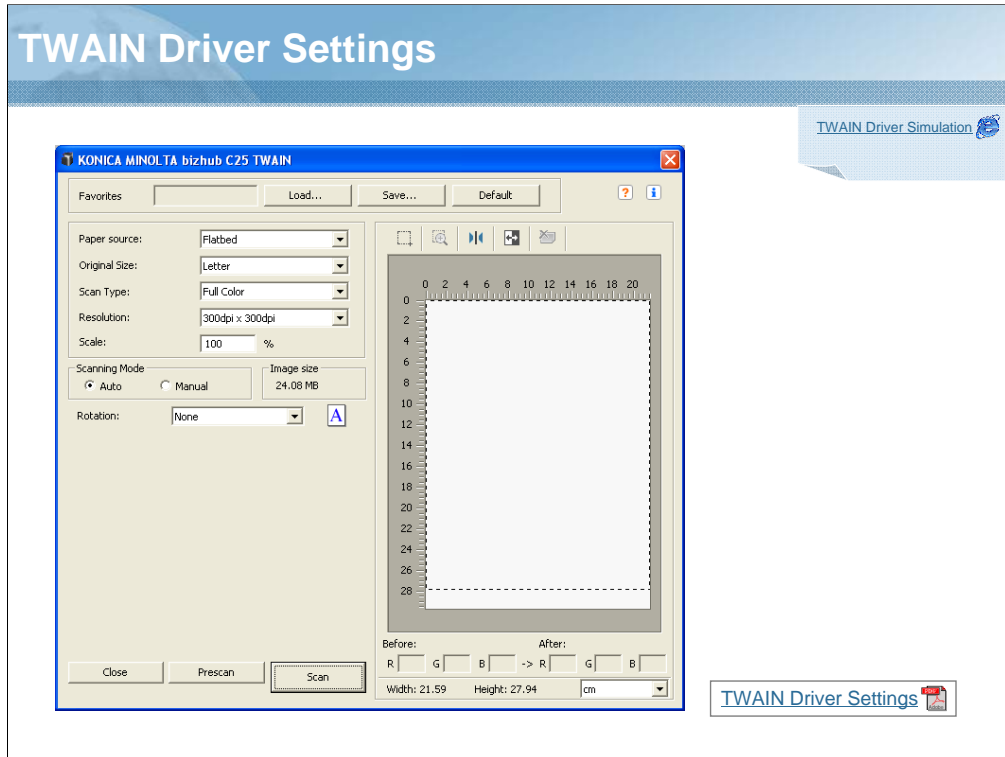


NARRATION: This is an explanation of the general procedure for scanning from a computer application.

Documents can be scanned from a computer connected to this machine with a USB cable or via a network. Scanning settings can be specified and the scanning operation can be performed from TWAIN- or WIA-compatible applications.



# TWAIN Driver Settings



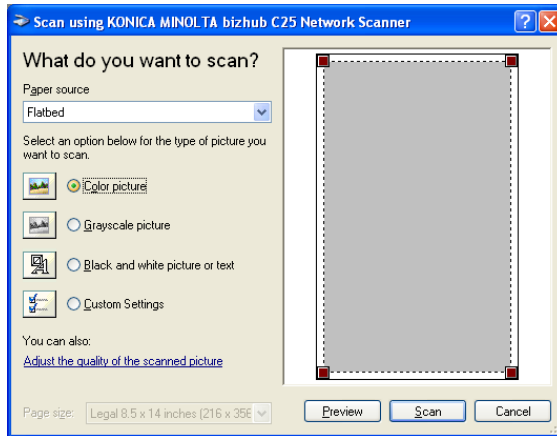
NARRATION: From the TWAIN driver, a preview can be displayed, and various adjustments, such as the size of the scan area, can be specified.

Click on the link and use the TWAIN driver simulation to check the setting items. In the TWAIN driver simulation, only the button enclosed with the red frame can be operated.

For details regarding the TWAIN driver settings, click on the link.

# WIA Driver Settings

[WIA Driver Simulation](#)



[WIA Driver Settings](#)

NARRATION: From the WIA driver, a preview can be displayed, and various adjustments, such as the size of the scan area, can be specified.

Click on the link and use the WIA driver simulation to check the setting items. In the WIA driver simulation, only the button enclosed with the red frame can be operated.

For details regarding the WIA driver settings, click on the link.

## 5.3 Scanning with the Machine

- Process of Basic Operation
- Scan Settings
- Register the Destination
- Specify the Destination
- Scan to PC
- Scan to USB Memory
- Scan to E-mail
- Scan to FTP
- Scan to SMB

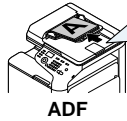
NARRATION: This section will cover “scanning with the machine”.

## Process of Basic Operation

### Position the document to be scanned.



Original glass



ADF

#### \* Notes for loading the document into the ADF

- Check that no document pages remain on the original glass.
- The maximum number of sheets able to be placed is 35 (media weight:80g/m<sup>2</sup>).
- Do not load the pages bound together with paper clips or staples.

### Press the [Scan] key to enter the scan mode.

### Specify the scan settings.

- As necessary, specify the image format, the quality (resolution, mode, density, sharpness), the simplex or duplex mode, the scan size, the start key, or the subject.

### Specify the destination.

- Specify the destination of the data. The address can be typed in directly, or an address registered on the machine can be selected.

### Press the [Start] key.

- To scan color scans, press the [Start (Color)] key. To scan monochrome scans, press the [Start (B&W)] key. Scanning begins, and then the data is sent to the specified location.

NARRATION: This is an explanation of the general procedure for scanning with the machine.

The machine keys can be used to make scans. This operation differs from scanning from a computer application since the destination of the scan data can also be specified.

## Scan Settings

1 PDF MEMORY:100%

2 MIX 150x150dpi

SCAN TO

Select

3 1-SIDE

4 SIZE:A4

5 COLOR or GRAY

Select

6 SUBJECT

CANCEL RESERV.

UTILITY

Select

| No. | Setting Item   | Choice                               | Description  |
|-----|----------------|--------------------------------------|--|
| 1   | IMAGE FORMAT   | TIFF, PDF, JPEG                      | Select the data format for the scanned image.<br><i>* If "2-SIDE" was selected, only "PDF" appears.</i><br><i>* If "BW Only" was selected, "JPEG" does not appear.</i>                     |
| 2   | QUALITY        |                                      |  |
|     | RESOLUTION     | 150x150dpi, 300x300dpi               | Select the resolution for the scanned image.   |
|     | MODE           | MIX, TEXT, PHOTO                     | Select the scan mode for the scanned image.  |
|     | DENSITY        | ☐☐☐☐☐☐                               | Select the scan density for the scanned image.   |
| 3   | SIMPLEX/DUPLEX | 1-SIDE, 2-SIDE                       | Select whether or not double-sided scanning is used.<br>"2-SIDE" is available only if the document is loaded in the ADF.<br><i>* This setting is available only if "PDF" was selected.</i> |
|     | SCAN SIZE      | A5, A4, B5, STATEMENT, LETTER, LEGAL | Specify the size of the scan data.   |
| 5   | Start Key      | BW Only, COLOR or GRAY               | Specify the color of the scan data.<br><i>* If "JPEG" was selected, this is set to "BW Only".</i>  |
| 6   | SUBJECT        | (Default) From bizhub C25            | Specify the subject used when sending scan data as e-mail.   |

NARRATION: This is an explanation of the scan settings. When you press the [Scan] key, the following screens are displayed.

## Register the Destination [1/5]

### ❖ Overview

The following destinations can be registered with this machine.

|                   | Description   |
|-------------------|---|
| <b>Favorite</b>   | <ul style="list-style-type: none"><li>▪ Select from the “speed dial” and “group dial” registered on this machine for convenient access to frequently specified destinations.</li><li>▪ Four types can be registered for destinations: Fax, E-mail, FTP and SMB.</li><li>▪ A maximum of 20 destinations can be registered.</li><li>▪ Either the control panel, PageScope Web Connection or Local Setup Utility can be used to register.</li></ul>  |
| <b>Speed Dial</b> | <ul style="list-style-type: none"><li>▪ Four types can be registered for destinations: Fax, E-mail, FTP and SMB.<ul style="list-style-type: none"><li>◇ Address (Fax and E-mail) destinations (Registration number: between 001 and 220)<ul style="list-style-type: none"><li>▪ A maximum of 220 destinations can be registered.</li><li>▪ Either the control panel, PageScope Web Connection or Local Setup Utility can be used to register.</li><li>▪ The address destinations can be registered by using information on the LDAP server.</li></ul></li><li>◇ Server (FTP and SMB) destinations (Registration number: between 221 and 250)<ul style="list-style-type: none"><li>▪ A maximum of 30 destinations can be registered.</li><li>▪ Either the PageScope Web Connection or Local Setup Utility can be used to register. The control panel cannot be used to registered.</li></ul></li></ul></li></ul> |
| <b>Group Dial</b> | <ul style="list-style-type: none"><li>▪ Multiple speed dial destinations can be registered together as a group.</li><li>▪ Two types can be registered for groups: Fax and E-mail.</li><li>▪ Fax destinations and E-mail destinations cannot be registered in a same group.</li><li>▪ A maximum of 20 groups can be registered.</li><li>▪ A maximum of 50 address destinations can be registered with one group.</li></ul>   |

NARRATION: The destination addresses can be registered and edited as “Favorite”, “Speed Dial”, or “Group Dial” from the control panel, PageScope Web Connection, or Local Setup Utility included in the Applications CD/DVD. For ease of use, it is advisable to register frequently used destinations with this machine in advance, so that the user will not have to enter the destination data directly each time they send the data.

## Register the Destination [2/5]

### ❖ Favorite

#### Preparation

- Register the “speed dial” or the “group dial” to select by “favorite”.

#### From Speed Dial

Control Panel

PSWC

LSU

- ❖ **Control Panel:** “UTILITY” → “DIAL REGISTER” → “FAVORITE” → “SPEED DIAL”
- ❖ **PSWC:** In Administrator, “Scan” page → “Favorite” → [From Speed Dial]
- ❖ **LSU:** “Dial Registration” → “Favorite” → [New Registration] → “From Speed Dial”
  - Select a speed dial destination registered in the list to be added to the favorite.

#### From Group Dial

Control Panel

PSWC

LSU

- ❖ **Control Panel:** “UTILITY” → “DIAL REGISTER” → “FAVORITE” → “GROUP DIAL”
- ❖ **PSWC:** In Administrator, “Scan” page → “Favorite” → [From Group Dial]
- ❖ **LSU:** “Dial Registration” → “Favorite” → [New Registration] → “From Group Dial”
  - Select a group dial destination registered in the list to be added to the favorite.

NARRATION: This is the method used for registering a favorite destination.

## Register the Destination [3/5]

### ❖ Speed Dial

#### E-mail

[Control Panel](#)[PSWC](#)[LSU](#)

- ❖ **Control Panel:** "UTILITY" → "DIAL REGISTER" → "SPEED DIAL" → registration number (between 1 and 220) → "MANUAL SETTING"
- ❖ **PSWC:** In Administrator, "Scan" page → "Speed Dial Setting" → registration number (between 001 and 220) → "E-mail"
- ❖ **LSU:** "Dial Registration" → "Speed Dial" → "Fax/E-mail" → registration number (between 001 and 220) → [New Registration] → "E-mail"

|                            | Description  |
|----------------------------|--|
| <b>Destination Name</b>    | Specify the name of the destination. (Up to 20 characters)           |
| <b>Destination Address</b> | Specify the E-mail address of the destination. (Up to 64 characters) |

#### LDAP Search

[Control Panel](#)[PSWC](#)[LSU](#)

#### Preparation

- Specify the LDAP settings with this machine.

- ❖ **Control Panel:** "UTILITY" → "DIAL REGISTER" → "SPEED DIAL" → registration number (between 1 and 220) → "LDAP SEARCH"
- ❖ **PSWC:** In Administrator, "Scan" page → "Speed Dial Setting" → registration number (between 001 and 220) → "LDAP Search"
  - Select the method used for searching, and specify the LDAP search string. (Up to 20 characters)

NARRATION: This is the method used for registering a speed dial destination.



## Register the Destination [4/5]

### FTP

Control Panel

PSWC

LSU

- ❖ **PSWC:** In Administrator, "Scan" page → "Speed Dial Setting" → registration number (between 221 and 250) → "FTP"
- ❖ **LSU:** "Dial Registration" → "Speed Dial" → "Scan to Server" → registration number (between 221 and 250) → [New Registration] → "FTP"

|                            | Description  |
|----------------------------|--|
| <b>File Destination</b>    | Specify the FTP server information (such as server address, directory, etc.) of the destination. |
| <b>Basic Setting</b>       | Select the desired basic settings (such as color setting, resolution, mode, etc.) used.          |
| <b>E-mail Notification</b> | Select whether or not e-mail notifications are to be sent after a transmission is completed.     |
| <b>Account Information</b> | Specify the account for logging into the FTP server.   |

### SMB

Control Panel

PSWC

LSU

- ❖ **PSWC:** In Administrator, "Scan" page → "Speed Dial Setting" → registration number (between 221 and 250) → "SMB"
- ❖ **LSU:** "Dial Registration" → "Speed Dial" → "Scan to Server" → registration number (between 221 and 250) → [New Registration] → "SMB"

|                            | Description  |
|----------------------------|--|
| <b>File Destination</b>    | Specify the SMB information (such as destination address, directory, etc.) of the destination. |
| <b>Basic Setting</b>       | Select the desired basic settings (such as color setting, resolution, mode, etc.) used.        |
| <b>E-mail Notification</b> | Select whether or not e-mail notifications are to be sent after a transmission is completed.   |
| <b>Account Information</b> | Specify the account for logging into the SMB.  |

NARRATION: This is a continuation of the method used for registering a speed dial destination. The control panel cannot be used to register an FTP address or a SMB address as a speed dial destination.

## Register the Destination [5/5]

### ❖ Group Dial

#### Preparation

- Register the “speed dial” to select by “group dial”.

#### E-mail

Control Panel

PSWC

LSU

- ❖ **Control Panel:** “UTILITY” → “DIAL REGISTER” → “GROUP DIAL” → registration number (between 1 and 20)
- ❖ **PSWC:** In Administrator, “Scan” page → “Group Dial Setting” → registration number (between 01 and 20) → “E-mail”
- ❖ **LSU:** “Dial Registration” → “Group Dial” → registration number (between Group01 and Group20) → [Edit]
  - Specify the name of the group dial destination. (Up to 20 characters)
  - Select the speed dial destinations registered in the list to be added to the group.

NARRATION: This is the method used for registering a group dial destination.

## Specify the Destination

### Direct Input (E-mail)

- Type in the destination directly.

### Using the Favorite (E-mail, FTP, and SMB)

- Press the [Addressbook] key, so that "FAVORITE" appears. Select the desired favorite destination.

### Using the Speed Dial (E-mail, FTP, and SMB)

- Press the [Addressbook] key twice, so that "SPEED DIAL" appears. Type in the number (between 1 and 250) to select the desired speed dial destination.

### Using the Group Dial (E-mail, FTP, and SMB)

- Press the [Addressbook] key three times, so that "GROUP DIAL" appears. Type in the number (between 1 and 20) to select the desired group dial destination.

### Using the Address Book (E-mail, FTP, and SMB)

- Press the [Addressbook] key four times, so that "ADDRESS BOOK" appears.
  - ❖ If you select "LIST", a list of the address book contents appears. Select the desired destination.
  - ❖ If you select "SEARCH", type in the search keyword, and then select the desired destination.

### LDAP Search (E-mail)

- Press the [Addressbook] key four times, so that "ADDRESS BOOK" appears. Select "LDAP SEARCH", and then select "NAME" or "E-MAIL". Type in the search keyword, and then select the desired destination.

NARRATION: This is the method used for specifying the destination.

The speed dial destinations and group dial destinations registered on this machine are saved in the address book.

A maximum of 236 e-mail destinations can be specified at one time. However a maximum of 16 e-mail destinations can be specified by direct input and LDAP search.

The FTP or SMB destinations cannot specify multiple destinations.

## Scan to PC

### ❖ Overview

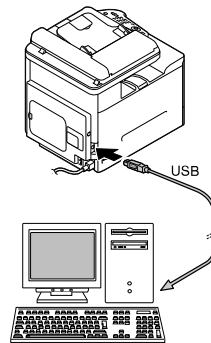
- ❖ This operation can be used only if this machine is connected to a computer with a USB cable.
- ❖ When scanning with this operation, a multi-page document cannot be scanned with the original glass. To scan a multi-page document, load the document into the ADF.

### ❖ Preparation

- Install the TWAIN scanner driver, the printer driver, and LinkMagic on your computer.
- Activate LinkMagic, and display the LinkMagic icon in the notification area.

### ❖ Operation Procedures

- 1) Position the document to be scanned.
- 2) Press the [Scan] key to enter the scan mode.
- 3) Select "SCAN TO", and then press the [Select] key.
- 4) Select "SCAN TO PC", and then press the [Select] key.
- 5) Press the [Start (Color)] key or the [Start (B&W)] key.
- 6) Follow the instructions that appear on the computer screen.
  - \* *The scan settings specified with LinkMagic are given priority. Specify the various settings with LinkMagic.*
  - \* *The scan data is saved in the folder specified with LinkMagic.*



NARRATION: The "Scan to PC" function is used to send scanned data to a computer connected to this machine with a USB cable.

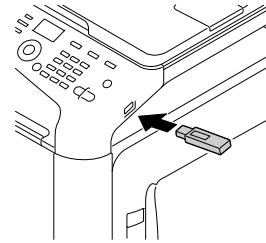
## Scan to USB Memory

### ❖ Overview

- ❖ This machine is compatible with a USB memory device of 4 GB or less.
- ❖ Depending on the USB memory device that is used, it may take some time for the scan data to be transferred.

### ❖ Operation Procedures

- 1) Plug the USB memory device into the USB HOST port of this machine.
- 2) Position the document to be scanned.
- 3) Press the [Scan] key to enter the scan mode.
- 4) Specify the desired scan settings.
- 5) Select "SCAN TO", and then press the [Select] key.
- 6) Select "SCAN TO USB MEMORY", and then press the [Select] key.
- 7) Press the [Start (Color)] key or the [Start (B&W)] key.



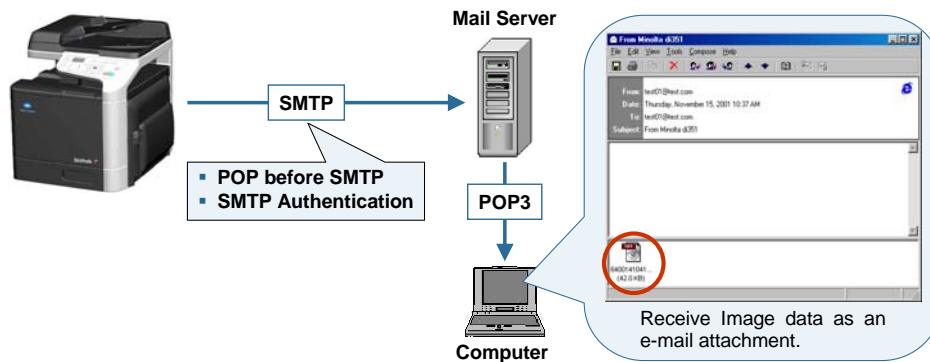
NARRATION: The "Scan to USB memory" function is used to send scanned data to a USB memory device plugged into the USB HOST port of this machine.

## Scan to E-mail [1/2]

### ❖ Overview

This function is used to send scanned data by E-mail attachment. The following settings can be specified according to the operating environment.

|                            | Description  |
|----------------------------|--|
| <b>POP before SMTP</b>     | The POP server authenticates users before they send E-mail, and allows access to the SMTP server only if the IP address or host name that has authenticated. |
| <b>SMTP Authentication</b> | The SMTP server authenticates users, and allows access to the SMTP server if authentication is successful.   |



NARRATION: The “Scan to E-mail” function can send scanned data via the network to a specified e-mail address.

## Scan to E-mail [2/2]

### ❖ Setting Method

Control Panel

PSWC

- ❖ **Control Panel:** "UTILITY" → "ADMIN. MANAGEMENT" → "E-MAIL SETTING"
- ❖ **PSWC:** In Administrator, "Network" page → "Email" → "Send Email"

#### E-mail Settings (Requirement)

- Enable the "SMTP" and "Scan Sending" function.
- Specify the E-mail address of the sender.
- Specify the IP address or host name for the SMTP server.

#### POP before SMTP Settings (To use POP before SMTP)

- Enable the "POP before SMTP" function.
- Specify the IP address or host name for the POP3 server used for authentication.
- Specify the account name and password used for POP3 server.

#### SMTP Authentication Settings (To use SMTP Authentication)

- Enable the "SMTP Authentication" function.
- Specify the user name and password used for authentication.

The screenshot shows the 'E-mail Settings' configuration page. The page is divided into three main sections: 'E-mail', 'POP before SMTP', and 'SMTP Authentication'. The 'E-mail' section includes fields for 'SMTP' (set to 'Enable'), 'Scan Sending' (set to 'Enable'), 'Sender Name' (set to 'localhost\_C25'), 'E-mail Address', 'Default Subject', 'SMTP Server Address' (set to '0.0.0.0'), 'Port Number' (set to '25'), and 'Connection Timeout' (set to '60'). The 'POP before SMTP' section includes 'POP before SMTP' (set to 'Disable'), 'POP before SMTP Time' (set to '1'), 'POP3 Server Address' (set to '0.0.0.0'), 'Account Name', 'Password', 'Port Number' (set to '110'), and 'POP3 Timeout' (set to '30'). The 'SMTP Authentication' section includes 'SMTP Authentication' (set to 'Disable'), 'User Name', 'Password', and 'Realm'. A sidebar on the left contains a list of settings categories: TCP/IP, Bonjour, LDAP, WSD, LLTD, NetFlow, IPv6, FTP, SNMP, AppleTalk, Email, POP before SMTP, SMTP, and Authentication. The 'Email' category is highlighted in yellow. The 'SMTP' and 'Authentication' categories are highlighted in blue. Arrows point from the text boxes to the corresponding settings in the screenshot.

NARRATION: This is an explanation of the settings required before using the "Scan to E-mail" function with this machine.

To specify the "Scan to E-mail" settings, either the control panel or PageScope Web Connection can be used. Specify the settings according to the operating environment.

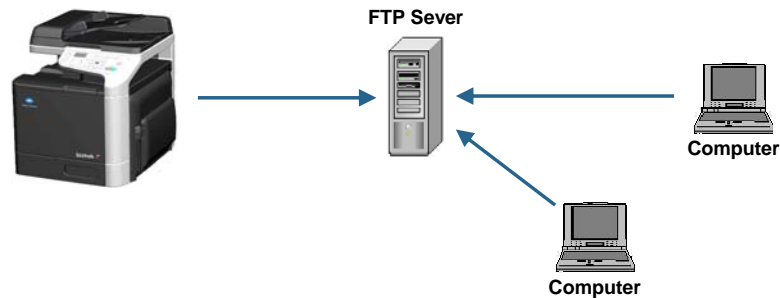
## Scan to FTP [1/2]

### ❖ Overview

This function is used to send scanned data to a specified folder on the FTP server connected to the network.

This allows you to download the data sent to the FTP server from a computer via the network.

\* *If a proxy is used to connect to the FTP server, the proxy sever must be registered to this machine.*



NARRATION: The "Scan to FTP" function can send scanned data via the network to a specified FTP address.



## Scan to FTP [2/2]

### ❖ Setting Method

Control Panel

PSWC

- ❖ **PSWC:** In Administrator, "Network" page → "FTP" → "Client"

#### FTP TX Settings (Requirement)

- Enable the "Send" function.
- Select the amount of time (in seconds) until the connection with the FTP server times out.

#### Proxy Settings (To use Proxy)

- Specify the server address of the proxy server.
- Specify the port number of the proxy server.
- Turn on the "Use Proxy" function for each destination.

#### PASV Settings (To use PASV)

- ❖ **PSWC:** In Administrator, "Scan" page → "Speed Dial Setting" → registration number (between 221 and 250) → "FTP"
- Turn on the "PASV Mode" function for each destination.

The image displays two screenshots of the PSWC control panel. The top screenshot shows the 'FTP TX' settings page. The left sidebar has a menu with items like TCP/IP, Bonjour, LDAP, WSD, LLTD, NetFlow, and FTP. The main content area is titled 'FTP TX' and includes a 'Send' checkbox (checked), a 'Proxy Server' field (0.0.0.0), a 'Proxy Port Number' field (21), and a 'Connection Timeout' field (30). The bottom screenshot shows the 'File Destination' settings page. The left sidebar has a menu with items like Events, Speed Dial Setting, Group Dial Setting, Fax Configuration, Downloading/Uploading Destinations List, and Authentication. The main content area is titled 'File Destination' and includes a 'Destination Name' field, an 'FTP Server Address' field, a 'Username' field, a 'Use Proxy' checkbox (checked), a 'Proxy Port Number' field (21), and a 'PASV Mode' checkbox (checked). Below these are 'Block Setting' options for Color or Gray, Resolution (300x300), Mode (MFC), Attachment file format (FTP), and Check method (None).

NARRATION: This is an explanation of the settings required before using the "Scan to FTP" function with this machine.

Please note that you cannot use the control panel of this machine to specify the "Scan to FTP" settings. All "Scan to FTP" settings can be specified using PageScope Web Connection. Specify the settings according to the operating environment.

## Scan to SMB [1/2]

### ❖ Overview

This function is used to send scanned data to a folder on the shared computer folder by using the SMB service.

\* *Windows file share setting must be enabled on the computer.*

The following settings can be specified according to the operating environment.

|                       | Description  |
|-----------------------|--|
| <b>Direct Hosting</b> | Specify this option to use Direct Hosting of the SMB function. This function allows you to specify the destination computer IP address (port: 445) for connection. In an IPv6 environment, NetBIOS is not used. Therefore, this setting is required. |
| <b>LLMNR</b>          | This option is available when sending data to a computer with the Windows Vista operating system or later. Although the DNS server is not used, the destination computer can be specified by the DNS host name and the connection is established.    |



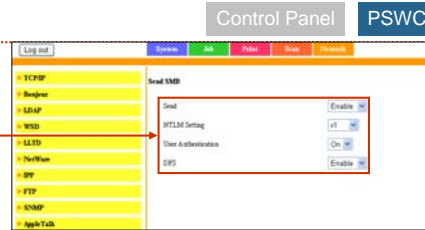
NARRATION: The “Scan to SMB” function can send scanned data via the network to a specified SMB address.

## Scan to SMB [2/2]

### ❖ Setting Method

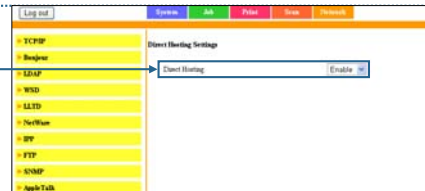
#### SMB Settings (Requirement)

- ❖ **PSWC:** In Administrator, “Network” page → “SMB” → “Send SMB”
- Enable the “Send” function.
- Specify whether it is performed in a DFS (Distributed File System) environment.



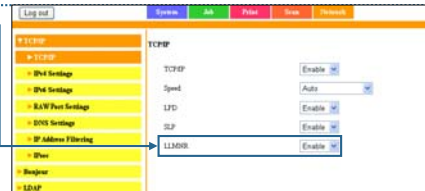
#### Direct Hosting Settings (To use Direct Hosting)

- ❖ **PSWC:** In Administrator, “Network” page → “SMB” → “Direct Hosting Settings”
- Enable the “Direct Hosting” function.



#### LLMNR Settings (To use LLMNR)

- ❖ **PSWC:** In Administrator, “Network” page → “TCP/IP” → “TCP/IP”
- Enable the “LLMNR” function.



NARRATION: This is an explanation of the settings required before using the “Scan to SMB” function with this machine.

Please note that you cannot use the control panel of this machine to specify the “Scan to SMB” settings. All “Scan to SMB” settings can be specified using PageScope Web Connection. Specify the settings according to the operating environment.

**Lesson 5 Quiz** Point Value: 30

Question 1 of 3 ▾

A maximum of 30 destinations can be registered in the Favorite.

True

False

---

**PROPERTIES**


On passing, 'Finish' button: [Goes to Next Slide](#)


On failing, 'Finish' button: [Goes to Next Slide](#)

Allow user to leave quiz: [At any time](#)

User may view slides after quiz: [At any time](#)

User may attempt quiz: [Unlimited times](#)

 Properties...

 Edit in Quizmaker

NARRATION: This is the review quiz for this lesson.

## 5.4 Lesson 5 Review

### Lesson 5

In this lesson you learned to:

- 1) Describe the scan specifications.
- 2) Scan from a computer application.
- 3) Scan with the machine such as “Scan to PC”, “Scan to USB Memory”, “Scan to E-mail”, “Scan to FTP”, and “Scan to SMB”.

NARRATION: In this lesson, you learned about the following items.

## Lesson 6: Fax Functions

### Lesson 6

Topics covered in the lesson include:

- 6.1 Fax Specifications
- 6.2 G3 Fax
- 6.3 PC Fax
- 6.4 Confirmation Mode
- 6.5 Lesson 6 Review

NARRATION: The following “fax function” topics will be covered in this lesson.

## 6.1 Fax Specifications

|                             | bizhub C20  | bizhub C25  | bizhub C35   |
|-----------------------------|---|---|--|
| <b>Fax Resolution</b>       | 203 x 98 dpi (Standard)<br>203 x 196 dpi (Fine)<br>203 x 392 dpi (Super Fine) | 203 x 98 dpi (Standard)<br>203 x 196 dpi (Fine)<br>203 x 392 dpi (Super Fine) | 200 x 100 dpi (Standard)<br>200 x 200 dpi (Fine)<br>400 x 400 dpi (Super Fine) |
| <b>Compatibility</b>        | ECM/Super G3  | ECM/Super G3  | ECM/Super G3   |
| <b>Modem Speed</b>          | V.34 (up to 33.6 kbps)  | V.34 (up to 33.6 kbps)  | V.34 (up to 33.6 kbps)   |
| <b>Transmit Speed</b>       | 3 sec/page (at V.34)  | 3 sec/page (at V.34)  | 3 sec/page (at V.34)   |
| <b>Compression</b>          | MH, MR, MMR, JBIG   | MH, MR, MMR, JBIG   | MH, MR, MMR, JBIG  |
| <b>Memory for Receiving</b> | 6 MB for Fax RX   | 6 MB for Fax TX/RX  | 256 MB for Fax TX/RX   |
| <b>Fax Function</b>         | <b>Speed Dial</b>   | 220 destinations  | 2000 destinations  |
|                             | <b>Group Dial</b>   | 20 groups (50 for 1 group)  | 100 groups (500 for 1 group)   |
|                             | <b>Program Dial</b>   | Not Supported   | 400 destinations   |
|                             | <b>Broadcast TX</b>   | 236 destinations  | 500 destinations   |
|                             | <b>Timer TX</b>   | Supported   | Supported  |
|                             | <b>Batch TX</b>   | Supported   | Not Supported  |
|                             | <b>Auto Redial</b>  | Supported   | Supported  |
|                             | <b>Memory RX</b>  | Supported   | Supported  |
|                             | <b>Duplex Print</b>   | Not Supported   | Supported  |
|                             | <b>Polling RX</b>   | Supported   | Supported  |
| <b>Forwarding</b>           | Supported (to E-mail/Fax)   | Supported (to E-mail/Fax)   | Supported (to E-mail/Fax)  |
| <b>Internet Fax</b>         | Not Supported   | Not Supported   | Supported  |

NARRATION: These are the fax specifications. This list identifies differences from existing products.

## 6.2 G3 Fax

- Overview
- Initial Settings
- Process of Basic Operation
- Fax Settings
- Register the Destination
- Specify the Destination
- Fax Transmission Functions
- Fax Reception Functions

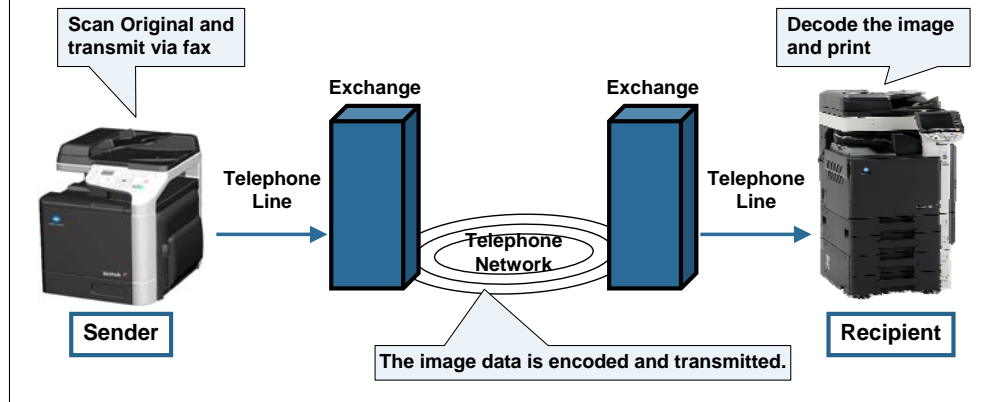
NARRATION: This section will cover the “G3 fax”.



## Overview

### What is G3 Fax?

- The scanned image data is transmitted via a telephone line.
- One of the international fax specifications standardized by the ITU-TS (International Telecommunication Union Telecommunication Standardization sector) concerning analog telephone lines.
- This machine includes the 33.6 kbps modem that complies with the ITU-T V.34 recommendation to support the Super G3 standard.



NARRATION: This is an overview concerning the G3 fax of this machine.

## Initial Settings

|                        | Description   |
|------------------------|---|
| <b>PTT SETTING</b>     | <ul style="list-style-type: none"> <li>▪ Select the country where this machine is installed.</li> <li>❖ <b>Control Panel:</b> "UTILITY" → "ADMIN. MANAGEMENT" → "USER SETTING" → "PTT SETTING"</li> </ul>   |
| <b>DATE&amp;TIME</b>   | <ul style="list-style-type: none"> <li>▪ Specify the current date, time, and time zone.</li> <li>❖ <b>Control Panel:</b> "UTILITY" → "ADMIN. MANAGEMENT" → "USER SETTING" → "DATE&amp;TIME"</li> <li>❖ <b>PSWC:</b> In Administrator, "System" page → "Date/Time" → "Manual Settings"</li> <li>* <i>If the time is automatically adjusted with NTP, use PageScope Web Connection for the setting.</i></li> <li>❖ <b>PSWC:</b> In Administrator, "System" page → "Date/Time" → "Time Adjustment Settings"</li> </ul> |
| <b>USER FAX NUMBER</b> | <ul style="list-style-type: none"> <li>▪ Enter your fax number. (A maximum of 20 characters)</li> <li>❖ <b>Control Panel:</b> "UTILITY" → "ADMIN. MANAGEMENT" → "USER SETTING" → "USER FAX NUMBER"</li> <li>❖ <b>PSWC:</b> In Administrator, "Scan" page → "Fax Configuration" → "User Data Registration" → "Fax Number (20 char.)"</li> <li>* <i>The specified number is printed in the header and footer of faxes.</i></li> </ul>   |
| <b>USER NAME</b>       | <ul style="list-style-type: none"> <li>▪ Enter your name. (A maximum of 32 characters)</li> <li>❖ <b>Control Panel:</b> "UTILITY" → "ADMIN. MANAGEMENT" → "USER SETTING" → "USER NAME"</li> <li>❖ <b>PSWC:</b> In Administrator, "Scan" page → "Fax Configuration" → "User Data Registration" → "User Name (32 char.)"</li> <li>* <i>The specified name is printed in the header of faxes.</i></li> </ul>   |
| <b>STONE/PULSE</b>     | <ul style="list-style-type: none"> <li>▪ Select the dialing system.</li> <li>❖ <b>Control Panel:</b> "UTILITY" → "ADMIN. MANAGEMENT" → "COMM. SETTING" → "STONE/PULSE"</li> <li>❖ <b>PSWC:</b> In Administrator, "Scan" page → "Fax Configuration" → "Communication Setting" → "Tone/Pulse"</li> </ul>  |
| <b>PSTN/PBX</b>        | <ul style="list-style-type: none"> <li>▪ Select the using environment.</li> <li>❖ <b>Control Panel:</b> "UTILITY" → "ADMIN. MANAGEMENT" → "COMM. SETTING" → "PSTN/PBX"</li> <li>❖ <b>PSWC:</b> In Administrator, "Scan" page → "Fax Configuration" → "Communication Setting" → "PSTN/PBX"</li> </ul>  |

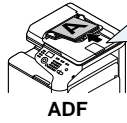
**NARRATION:** This is an explanation of the settings required before using the fax functions with this machine. At first, specify the following settings according to the operating environment.

## Process of Basic Operation

### Position the document to be faxed.



Original glass



ADF

#### \* Notes for loading the document into the ADF

- Check that no document pages remain on the original glass.
- The maximum number of sheets able to be placed is 35 (media weight:80g/m<sup>2</sup>).
- Do not load the pages bound together with paper clips or staples.

### Press the [Fax] key to enter the fax mode.

### Specify the fax settings.

- As necessary, specify the quality (original), or the density.

### Specify the destination.

- Specify the destination of the fax. The address can be typed in directly, an address registered on the machine can be used, or the redial function can be selected.

### Press the [Start] key.

- The document is scanned, and then the fax is sent.
- \* *Even if the [Start (Color)] key is pressed, the fax is sent by monochrome.*

NARRATION: This is an explanation of the general procedure for sending faxes.

## Fax Settings

12:00      MEMORY:100%

1— STD/TEXT     

FAX TO     

-> Select

| No. | Setting Item | Choice             | Description   |
|-----|--------------|--------------------|---|
| 1   | QUALITY      | QUALITY (ORIGINAL) | STD/TEXT, FINE/TEXT, S-FINE/TEXT, STD/PHOTO, FINE/PHOTO, S-FINE/PHOTO |
|     |              | DENSITY            | Select the scan density.  |

NARRATION: This is an explanation of the fax settings. When you press the [Fax] key, the following screens are displayed.

## Register the Destination [1/3]

### ❖ Favorite

#### Preparation

- Register the “speed dial” or the “group dial” to select by “favorite”.

#### From Speed Dial

Control Panel

PSWC

LSU

- ❖ **Control Panel:** “UTILITY” → “DIAL REGISTER” → “FAVORITE” → “SPEED DIAL”
- ❖ **PSWC:** In Administrator, “Scan” page → “Favorite” → [From Speed Dial]
- ❖ **LSU:** “Dial Registration” → “Favorite” → [New Registration] → “From Speed Dial”
  - Select a speed dial destination registered in the list to be added to the favorite.

#### From Group Dial

Control Panel

PSWC

LSU

- ❖ **Control Panel:** “UTILITY” → “DIAL REGISTER” → “FAVORITE” → “GROUP DIAL”
- ❖ **PSWC:** In Administrator, “Scan” page → “Favorite” → [From Group Dial]
- ❖ **LSU:** “Dial Registration” → “Favorite” → [New Registration] → “From Group Dial”
  - Select a group dial destination registered in the list to be added to the favorite.

NARRATION: This is the method used for registering a favorite destination.

## Register the Destination [2/3]

### ❖ Speed Dial

#### Fax

Control Panel

PSWC

LSU

- ❖ **Control Panel:** "UTILITY" → "DIAL REGISTER" → "SPEED DIAL" → registration number (between 1 and 220) → "MANUAL SETTING"
- ❖ **PSWC:** In Administrator, "Scan" page → "Speed Dial Setting" → registration number (between 001 and 220) → "Fax"
- ❖ **LSU:** "Dial Registration" → "Speed Dial" → "Fax/E-mail" → registration number (between 001 and 220) → [New Registration] → "Fax"

|                           | Description  |
|---------------------------|--|
| <b>Destination Name</b>   | Specify the name of the destination. (Up to 20 characters)       |
| <b>Destination Number</b> | Specify the fax number of the destination. (Up to 50 characters) |
| <b>Speed</b>              | Select the speed of the fax modem.                               |
| <b>Batch Time (hh:mm)</b> | Specify the batch transmission time of speed dial.               |

NARRATION: This is the method used for registering a speed dial destination.

## Register the Destination [3/3]

### ❖ Group Dial

#### Preparation

- Register the “speed dial” to select by “group dial”.

#### Fax

Control Panel

PSWC

LSU

- ❖ **Control Panel:** “UTILITY” → “DIAL REGISTER” → “GROUP DIAL” → registration number (between 1 and 20)
- ❖ **PSWC:** In Administrator, “Scan” page → “Group Dial Setting” → registration number (between 01 and 20) → “Fax”
- ❖ **LSU:** “Dial Registration” → “Group Dial” → registration number (between Group01 and Group20) → [Edit]
  - Specify the name of the group dial destination. (Up to 20 characters)
  - Select the speed dial destinations registered in the list to be added to the group.

NARRATION: This is the method used for registering a group dial destination.

## Specify the Destination

### Direct Input

- Type in the destination directly.

### Using the Favorite

- Press the [Addressbook] key, so that "FAVORITE" appears. Select the desired favorite destination.

### Using the Speed Dial

- Press the [Addressbook] key twice, so that "SPEED DIAL" appears. Type in the number (between 1 and 220) to select the desired speed dial destination.

### Using the Group Dial

- Press the [Addressbook] key three times, so that "GROUP DIAL" appears. Type in the number (between 1 and 20) to select the desired group dial destination.

### Using the Address Book

- Press the [Addressbook] key four times, so that "ADDRESS BOOK" appears.
  - ❖ If you select "LIST", a list of the address book contents appears. Select the desired destination.
  - ❖ If you select "SEARCH", type in the search keyword, and then select the desired destination.

### Using the Redial Function

- Press the [Redial/Pause] key.

NARRATION: This is the method used for specifying the destination.

The speed dial destinations and group dial destinations registered on this machine are saved in the address book.

When the redial function is used, the destination that dialed last can be specified.

A maximum of 236 destinations can be specified at one time. However a maximum of 16 destinations can be specified by direct input.



## Fax Transmission Functions [1/6]

### ❖ Transmission Method

Control Panel

PSWC

#### [Default Setting]

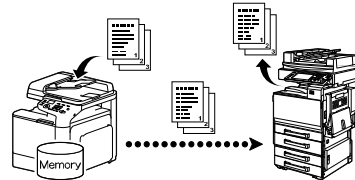
- ❖ **Control Panel:** "UTILITY" → "FAX TX OPERATION" → "DEFAULT TX"
- ❖ **PSWC:** In Administrator, "Scan" page → "Fax Configuration" → "Transmission Operation" → "Default TX"

#### [Temporarily Setting]

- ❖ **Control Panel:** [Fax] key → "TX MODE"

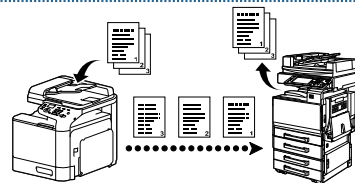
#### Memory Transmission

- The fax transmission starts after the entire document is scanned and stored into memory.
- The total number of pages is automatically printed with the page number in the header.
- The memory may become full if there are many pages in the document or if the data is large due to the fine image quality (resolution).



#### Direct Transmission

- The fax transmission is performed in real time in the transmission sequence of the destinations.
- If there are many pages in the document, the fax can be sent with this method without the memory becoming full.



NARRATION: There are two methods for sending the fax documents with this machine: memory transmission and direct transmission.

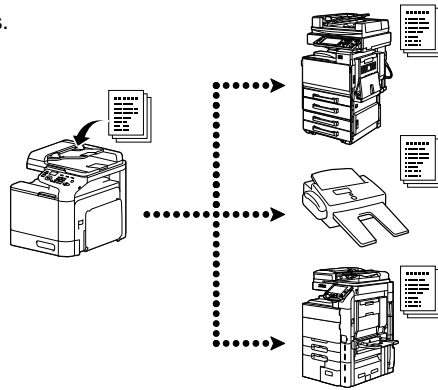
The transmission method can be temporarily changed from the default setting. Then the transmission method returns to the default setting after transmission.

## Fax Transmission Functions [2/6]

### ❖ Broadcast Transmission

Specify the destinations in the following methods.

- ❖ Direct Input
- ❖ Using the Favorite
- ❖ Using the Speed Dial
- ❖ Using the Address Book
- A maximum of 236 destinations can be specified at one time. However a maximum of 16 destinations can be specified by direct input.
- With the transmission result report, you can check whether the fax was sent to all recipients.
- Broadcast transmission can be combined with timer transmission.

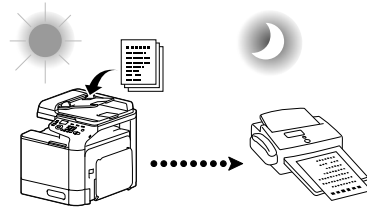


NARRATION: A fax can be sent to multiple recipients in a single transmission.

## Fax Transmission Functions [3/6]

### ❖ Timer Transmission

- When sending multiple documents together to a single destination at a specified time, batch transmission is useful since only a single connection is required.
- **If the machine is not programmed with the current time, the fax cannot be sent at the specified time.**
- Timer transmission can be combined with broadcast transmission.
- **T** appears in the screen when a document is queued for timer transmission.



The scanned document is sent at the specified time.

### Settings

Control Panel

PSWC

- ❖ **Control Panel:** [Fax] key → "TIMER TX"
  - Specify the desired transmission time. (The time is set in the 24-hour format.)
  - \* *If the specified speed dial number is registered with batch transmission settings, the fax will be sent at the time specified for the batch transmission.*

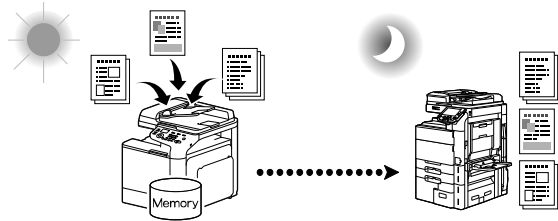
NARRATION: A document can be scanned and stored in the memory of this machine to be sent at a specified time. This function is convenient for sending faxes at discounted calling times.

Timer transmission can be combined with broadcast transmission.

## Fax Transmission Functions [4/6]

### ❖ Batch Transmission

- If the machine is not programmed with the current time, the fax cannot be sent at the specified time.
- **I** appears in the screen when a document is queued for batch transmission.



### Settings

Control Panel

PSWC

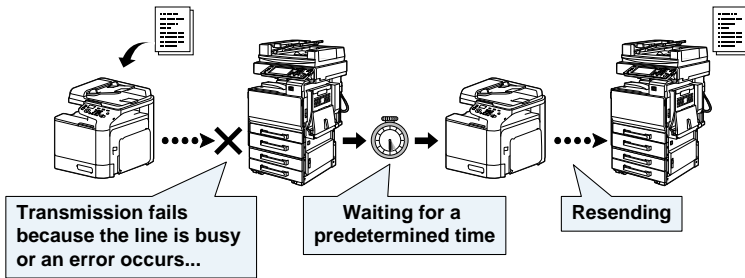
LSU

- ❖ **Control Panel:** "UTILITY" → "DIAL REGISTER" → "SPEED DIAL" → registration number (between 1 and 220) → "MANUAL SETTING"
- ❖ **PSWC:** In Administrator, "Scan" page → "Speed Dial Setting" → registration number (between 001 and 220) → "Fax"
- ❖ **LSU:** "Dial Registration" → "Speed Dial" → "Fax/E-mail" → registration number (between 001 and 220) → "New Registration" → "Fax"
  - Specify the batch transmission time with each speed dial in advance.

NARRATION: Multiple documents can be scanned and stored in the memory of this machine to be sent together to a single destination at a specified time.

## Fax Transmission Functions [5/6]

### ❖ Auto Redial



#### Settings

Control Panel

PSWC

- Specify the number of times (between 1 and 10 times) a redial is attempted.
  - ❖ **Control Panel:** "UTILITY" → "ADMIN. MANAGEMENT" → "FAX SETTING" → "AUTO REDIAL" → "NUMBER OF REDIAL"
  - ❖ **PSWC:** In Administrator, "Scan" page → "Fax Configuration" → "Auto Redial Setting" → "Number of Redials"
- Specify the interval (between 2 and 99 minutes) between redial attempts.
  - ❖ **Control Panel:** "UTILITY" → "ADMIN. MANAGEMENT" → "FAX SETTING" → "AUTO REDIAL" → "INTERVAL"
  - ❖ **PSWC:** In Administrator, "Scan" page → "Fax Configuration" → "Auto Redial Setting" → "Redial Interval"

NARRATION: If the fax cannot be sent, for example when the recipient's line is busy, the fax number can be dialed again after some time has passed.

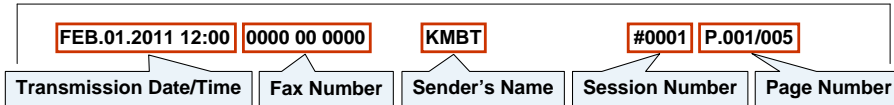
## Fax Transmission Functions [6/6]

### ❖ Fax Header

Control Panel

PSWC

- ❖ **Control Panel:** "UTILITY" → "FAX TX OPERATION" → "HEADER"
- ❖ **PSWC:** In Administrator, "Scan" page → "Fax Configuration" → "Transmission Operation" → "Header"
  - Select whether or not the transmission information is printed at the top of each sent fax.



|                               | Description   |
|-------------------------------|---|
| <b>Transmission Date/Time</b> | Shows the date/time that the fax was sent. The time is indicated in the 24-hour format.   |
| <b>Fax Number</b>             | Shows the fax number specified for this machine.<br>❖ <b>Control Panel:</b> "UTILITY" → "ADMIN. MANAGEMENT" → "USER SETTING" → "USER FAX NUMBER"<br>❖ <b>PSWC:</b> In Administrator, "Scan" page → "Fax Configuration" → "User Data Registration" |
| <b>Sender's Name</b>          | Shows the sender's name specified for this machine.<br>❖ <b>Control Panel:</b> "UTILITY" → "ADMIN. MANAGEMENT" → "USER SETTING" → "USER NAME"<br>❖ <b>PSWC:</b> In Administrator, "Scan" page → "Fax Configuration" → "User Data Registration"    |
| <b>Session Number</b>         | Shows the session number used to manage the sent fax.   |
| <b>Page Number</b>            | <ul style="list-style-type: none"> <li>▪ Shows the page number. [Direct Transmission]</li> <li>▪ Shown as page number/total number of pages. [Memory Transmission]</li> </ul>   |

**NARRATION:** The sender's information registered in this machine is printed in the header of the fax received by the recipient.

## Fax Reception Functions [1/6]

### ❖ Reception Mode

Control Panel

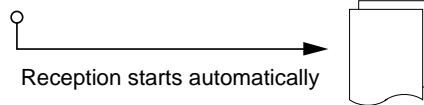
PSWC

- Select the reception mode.
  - ❖ **Control Panel:** "UTILITY" → "FAX RX OPERATION" → "RX MODE"
  - ❖ **PSWC:** In Administrator, "Scan" page → "Fax Configuration" → "Reception Operation" → "RX Mode"
- Enter the number of rings (between 1 and 16) until the machine automatically begins receiving.
  - ❖ **Control Panel:** "UTILITY" → "FAX RX OPERATION" → "NO. of RINGS"
  - ❖ **PSWC:** In Administrator, "Scan" page → "Fax Configuration" → "Reception Operation" → "Number of Rings"

#### Automatic Reception

- Automatically begins receiving the fax. No special operation is needed.
- Reception begins after the specified number of rings.

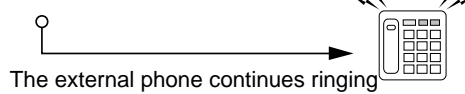
Incoming



#### Manual Reception

- Does not automatically receive the fax.
- If a telephone is connected to this machine and the same line is used for phoning and faxing, the fax can be received after picking up the handset.

Incoming



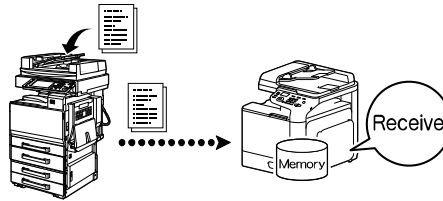
NARRATION: There are two methods for receiving the fax documents with this machine: automatic reception and manual reception.

If you select "Auto RX", enter the number of rings until the machine automatically begins receiving the fax.

## Fax Reception Functions [2/6]

### ❖ Memory Reception

- If the on/off time is not specified, saved fax data in memory is printed when “Memory RX Mode” function is set to “Off”.
- If the on time and off time are the same, saved fax data in memory is printed at the start/end time.



#### Settings

Control Panel

PSWC

- ❖ **Control Panel:** “UTILITY” → “FAX RX OPERATION” → “MEMORY RX MODE”
- ❖ **PSWC:** In Administrator, “Scan” page → “Fax Configuration” → “Reception Operation” → “Memory RX Mode”

|                        | Description   |
|------------------------|---|
| <b>Memory RX Mode</b>  | Select “On”.  |
| <b>On Time</b>         | Specify the time when memory reception mode begins.<br>* <i>It is possible to specify no on time.</i>   |
| <b>Off Time</b>        | Specify the time when memory reception mode ends.<br>* <i>It is possible to specify no off time.</i>  |
| <b>Password (XXXX)</b> | Specify the password (4-digit number).<br>* <i>It is possible to specify no password.</i><br>* <i>The password required for turning off memory reception, or changing the on/off times.</i> |

**NARRATION:** With memory reception, received fax documents can be stored in memory and printed at a specified time. This is convenient, for example when confidential documents are received.



## Fax Reception Functions [3/6]

### ❖ Duplex Print

Duplex Print cannot be performed under the following conditions.

- ❖ When the paper size for printing received documents is 8 1/2 x 13 1/2.
- ❖ When the received document can be printed on a single page.
- ❖ When each page of the received document is to be printed on paper of a different size.

#### Settings

Control Panel

PSWC

- ❖ **Control Panel:** "UTILITY" → "FAX RX OPERATION" → "DUPLEX PRINT"
- ❖ **PSWC:** In Administrator, "Scan" page → "Fax Configuration" → "Reception Operation" → "Duplex Print"
  - Select whether or not both sides of the paper is printed on when a document containing multiple pages is received.

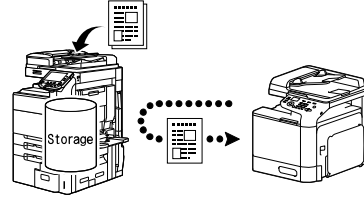
NARRATION: Paper can be conserved by printing on both sides of the page when a document containing multiple pages is received.

## Fax Reception Functions [4/6]

### ❖ Manual Polling Reception

#### Operation Procedure

- 1) Press the [Fax] key to enter the fax mode.
- 2) Press the [On hook] key, or pick up the handset.
- 3) Specify the fax number.
- 4) Press the [Start] key.  
Polling reception begins.
- 5) If the handset was picked up, return it to its cradle after reception is finished.

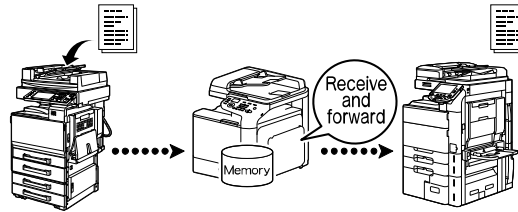


NARRATION: Documents stored on the sender's machine can be received with an operation performed on this machine.

## Fax Reception Functions [5/6]

### ❖ Forwarding

- A fax number or e-mail address can be specified as the forwarding destination.



### Settings

Control Panel

PSWC

- ❖ **Control Panel:** "UTILITY" → "FAX RX OPERATION" → "FORWARD"
- ❖ **PSWC:** In Administrator, "Scan" page → "Fax Configuration" → "Reception Operation" → "Forward Mode" and "Forward Address"

|                        | Description  |
|------------------------|--|
| <b>Forward Mode</b>    | Select the forwarding mode.  |
| <b>Off</b>             | Select this setting to not forward the document.   |
| <b>On</b>              | Select this setting to forward the received fax document to the specified destination.   |
| <b>On (Print)</b>      | Select this setting to forward the received fax document to the specified destination at the same time that the machine prints it.   |
| <b>Forward Address</b> | Specify the forwarding address for fax (Up to 50 characters) or e-mail (Up to 64 characters).<br>* If you specify it from the control panel, it is possible to select from the speed dial destinations. To select from the speed dial destinations, press the [Addressbook] key, and then specify the speed dial number. |

NARRATION: Received documents can be forwarded to a previously specified destination.

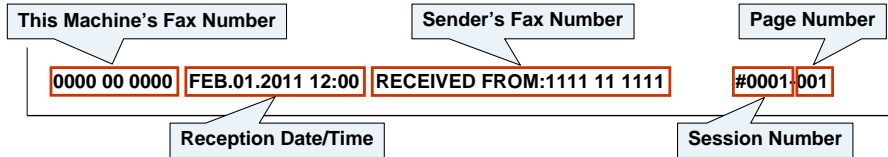
## Fax Reception Functions [6/6]

### ❖ Fax Footer

Control Panel

PSWC

- ❖ **Control Panel:** "UTILITY" → "FAX RX OPERATION" → "FOOTER"
- ❖ **PSWC:** In Administrator, "Scan" page → "Fax Configuration" → "Reception Operation" → "Footer Enable"
  - Select whether or not the reception information is printed at the bottom of each received fax.



|                                  | Description   |
|----------------------------------|---|
| <b>This Machine's Fax Number</b> | Shows the fax number specified for this machine.<br>❖ <b>Control Panel:</b> "UTILITY" → "ADMIN. MANAGEMENT" → "USER SETTING" → "USER FAX NUMBER"<br>❖ <b>PSWC:</b> In Administrator, "Scan" page → "Fax Configuration" → "User Data Registration" → "Fax Number (20 char.)" |
| <b>Reception Date/Time</b>       | Shows the date/time that the fax was received. The time is indicated in the 24-hour format.   |
| <b>Sender's Fax Number</b>       | Shows the sender's fax number.  |
| <b>Session Number</b>            | Shows the session number used to manage the received fax.   |
| <b>Page Number</b>               | Shows the page number.  |

NARRATION: The reception information is printed in the footer of the fax received.

## 6.3 PC Fax

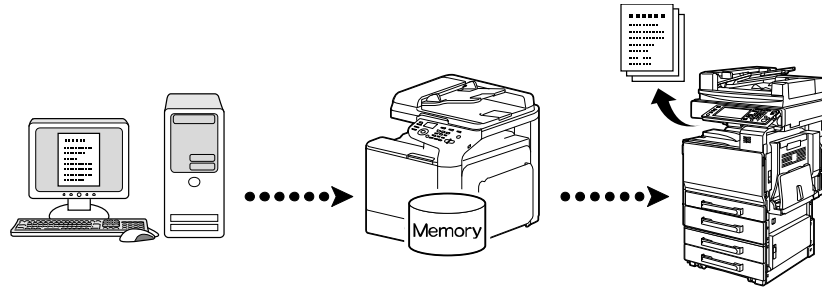
- Overview
- System Requirements
- Process of Basic Operation
- Fax Driver Settings
- Uninstalling the Fax Driver

NARRATION: This section will cover the “PC fax”.

## Overview

### What is PC Fax?

- Using a fax driver, a fax can be sent directly from a Windows-compatible computer.
- In order to perform a PC fax operation, the fax driver must be installed.
- The fax driver of this machine is not compatible with IPP (Internet Printing Protocol).



NARRATION: This is an overview concerning the PC fax of this machine.

## System Requirements

|                             | System Requirement  |
|-----------------------------|---|
| <b>CPU</b>                  | Intel Pentium II: 400 MHz or higher   |
| <b>Operating System</b>     | <ul style="list-style-type: none"><li>▪ [32bit]<br/>Windows 7 Home Premium/Professional/Ultimate/Enterprise, Windows XP Home Edition/Professional (Service Pack 2 or later), Windows Vista Home Basic/Home Premium/Ultimate/Business/Enterprise (Service Pack 1), Windows Server 2003, Windows Server 2008 Standard/Enterprise</li><li>▪ [64bit]<br/>Windows 7 Home Premium/Professional/Ultimate/Enterprise, Windows XP Professional, Windows Vista Home Basic/Home Premium/Ultimate/Business/Enterprise, Windows Server 2003, Windows Server 2008 Standard/Enterprise, Windows Server 2008 R2 Standard/Enterprise</li></ul> |
| <b>Free Hard Disk Space</b> | 256 MB or more  |
| <b>RAM</b>                  | 128 MB or more  |

**NARRATION:** Before installing the fax driver, make sure that your system meets these system requirements, and that the computer is equipped with a built-in or external CD/DVD-ROM drive.

## Process of Basic Operation

### Specify the fax driver settings.

- 1) Using a computer application, open the data to be sent.
- 2) Select "Print" from the "File" menu of the application.
- 3) Select "KONICA MINOLTA bizhub C25 (FAX)" as the printer.
- 4) If necessary, click [Properties] or [Preferences], and then change the fax driver settings.
- 5) Click [OK].

### Specify the destination.

- Specify the destination in the "Destination Settings" tab of the appeared "Destination Settings" dialog box.
  - ❖ When directly typing in the destination, enter the information in the "Name" and "Fax Number", and then click [>]. The recipient moves under "Destination List".
  - ❖ When selecting the destination from the address book, click the desired destination in the list", and then click [>]. The recipient moves under "Destination List".
- \* "P" (pause) can only be entered as an uppercase letter.

### Select the cover page format.

- If necessary, select the desired cover page format in the "Cover Sheet" tab of the "Destination Settings" dialog box.

### Click [OK].

- The PC fax data is sent via this machine.

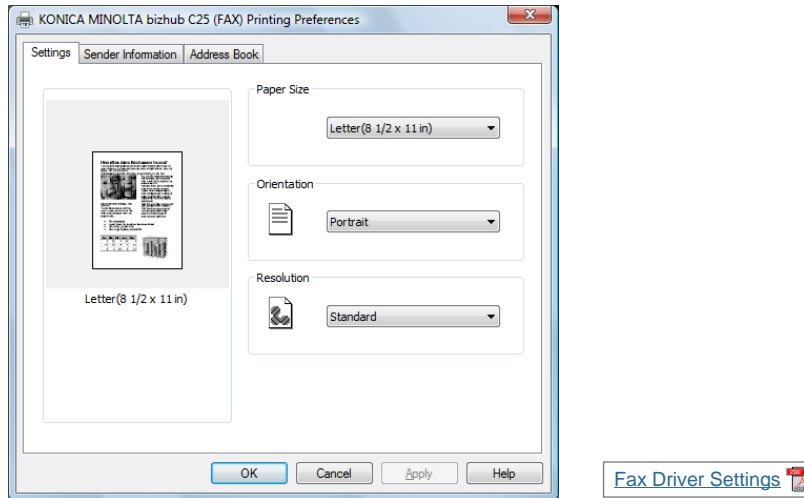
NARRATION: This is an explanation of the general procedure for PC faxing.



## Fax Driver Settings

If you display the fax driver settings, right-click the "KONICAMINOLTA bizhub C25 (FAX)" printer icon, then click "Printing Preferences".

[Fax Driver Simulation](#)



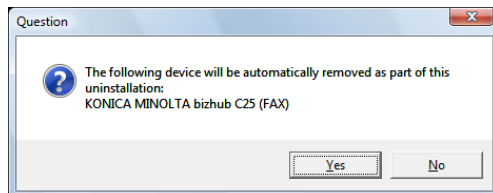
**NARRATION:** Before you start the PC fax operation with your machine, you are advised to verify/change the default fax driver settings. Select the default settings for your machine, such as the paper size you use, in the appropriate tabs. Moreover, it is convenient to register the destination in the Address Book.

Click on the link and use the fax driver simulation to check the setting items. In the fax driver simulation, only the button enclosed with the red frame can be operated.

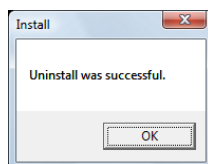
For details regarding the fax driver settings, click on the link.

## Uninstall the Fax Driver

- 1) Close all applications.
- 2) Choose the uninstall program from the “Start” menu → “All programs” → “KONICA MINOLTA” → “bizhub C25” → “Fax” → “Uninstall”.
- 3) When the uninstall dialog box appears, click [Yes] to uninstall.



- 4) Click [OK]. The fax driver will be uninstalled from your computer.



NARRATION: This is an explanation of the procedure for uninstalling the fax driver if necessary.

## 6.4 Confirmation Mode

- Transmission/Reception Result
- Fax-related Reports and Lists

NARRATION: This section will cover the “confirmation mode”.

## Transmission/Reception Result

The results of a maximum of 60 fax transmissions/receptions can be viewed.


- ❖ **Control Panel:** "REPORT/STATUS" → "TX/RX RESULT"
  - Displays the communications log.
  - The transmission/reception results can be printed by pressing the [Start] key.

NARRATION: This is an explanation of the procedure for checking the transmission and reception results.

## Fax-related Reports and Lists

The following fax-related reports and lists can be printed by this machine.

❖ **Control Panel:** "REPORT/STATUS" → "REPORT"

[Fax-related Reports and Lists](#) 

|                           | Description  |
|---------------------------|--|
| <b>TX RESULT REPORT</b>   | A report that contains the results of fax transmissions.                             |
| <b>RX RESULT REPORT</b>   | A report that contains the results of fax receptions.                                |
| <b>ACTIVITY REPORT</b>    | A report that contains the results of fax transmissions and fax receptions.          |
| <b>MEMORY DAT LIST</b>    | A list that contains the information for queued fax transmissions.                   |
| <b>MEMORY IMAGE PRINT</b> | A list that contains the information reduced first page of queued fax transmissions. |
| <b>FAVORITE LIST</b>      | A list that contains the destinations registered in the favorite.                    |
| <b>SPEED DIAL LIST</b>    | A list that contains the destinations registered in the speed dial.                  |
| <b>GROUP DIAL LIST</b>    | A list that contains the destinations registered in the group dial.                  |

❖ **Control Panel:** In Service mode, "PS/PCL" → "PRINT MENU" → "EVENT LOG"

|                  | Description   |
|------------------|---|
| <b>EVENT LOG</b> | A report that contains the event logs. (For service engineer use) |

❖ **Control Panel:** In Service mode, "REPORT" → "T. 30 PROTOCOL LIST"

|                            | Description   |
|----------------------------|---|
| <b>T. 30 PROTOCOL LIST</b> | A list that contains the T. 30 protocol. (For service engineer use) |

NARRATION: Reports of the status of fax transmissions and receptions, and the dial settings, can be printed.

For details regarding the fax-related reports and lists, click on the link.

**Lesson 6 Quiz** Point Value: 40

Question 1 of 3 ▾

Which items can be entered into a Fax header? (select the three that apply)

- Session Number
- Transmission Date/Time
- Transmission Speed
- Page Number

**PROPERTIES**


On passing, 'Finish' button: [Goes to Next Slide](#)


On failing, 'Finish' button: [Goes to Next Slide](#)

Allow user to leave quiz: [At any time](#)

User may view slides after quiz: [At any time](#)

User may attempt quiz: [Unlimited times](#)

 Properties...

 Edit in Quizmaker

NARRATION: This is the review quiz for this lesson.

## 6.5 Lesson 6 Review

### Lesson 6

In this lesson you learned to:

- 1) Describe the fax specifications.
- 2) Operate the G3 fax.
- 3) Operate the PC fax.
- 4) Confirm the fax-related results, reports and lists.

NARRATION: In this lesson, you learned about the following items.

## Lesson 7: User Authentication

### Lesson 7

Topics covered in the lesson include:

- 7.1 Overview
- 7.2 User Authentication Settings
- 7.3 Lesson 7 Review

NARRATION: The following “user authentication” topics will be covered in this lesson.



## 7.1 Overview [1/2]

### ❖ What is the user authentication function?

- Registering information about users who can use this machine.  
It is possible to restrict access to this machine and restrict available functions.

### ❖ What user authentication can do?

User authentication enable you to use the following two "A" functions.



#### Authentication

##### Identifies users.

This machine becomes available for use only when the correct user name and user password are entered.

⇒ Security enhancement

#### Authorization

##### Assigns appropriate privileges to users.

Restrict available functions by user.  
(For example, prohibition of color printing.)

⇒ Security enhancement,  
Cost reduction

NARRATION: With the user authentication function, you can identify a user, and assign privileges to a user.

When this function is enabled, only the registered users can use this machine, enhancing the security in your office.

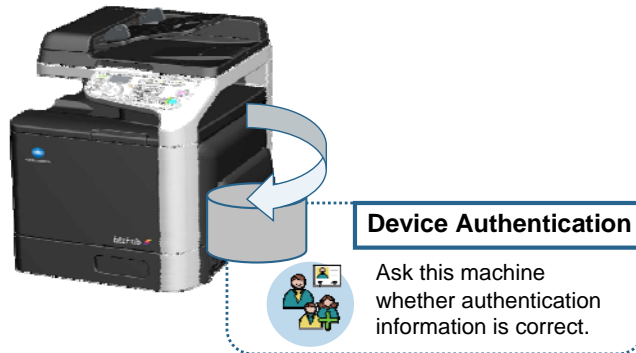
Furthermore, it is possible to reduce costs because you can specify the function permission for each registered user. For example, an unnecessary expenditure can be reduced by restricting the use of a specific function, such as color printing, and specifying it so that only the users requiring that function can print.

To enable an unregistered user to use this machine, allow public access. A public access user does not require user information, such as a user name and user password.

## 7.1 Overview [2/2]

### ❖ Authentication Method

- ❖ Device authentication
  - Register user information in this machine in order for this machine to perform user authentication.
  - Use this function when a small number of devices are installed, or when central management of authentication information is not required.



NARRATION: This machine supports one authentication method, device authentication; it does not support external server authentication.

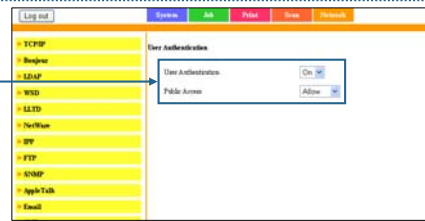
In device authentication, authentication information for each user is registered in this machine. This method is not suitable for synchronizing authentication information among multiple devices, although it does make it easy to realize user authentication.

## 7.2 User Authentication Settings

### ❖ Setting Procedure

#### 1 User Authentication Settings

- ❖ **PSWC:** In Administrator, “Network” page → “Authentication” → “User Authentication”
  - Select whether or not user authentication is performed.
  - Select whether or not logon as a public user is permitted when authentication settings have been specified.



#### 2 Default Permission Settings (If “Public Access” is set to “Allow”)

- ❖ **PSWC:** In Administrator, “System” page → “Authentication” → “Default Permission Settings”
  - Select whether or not printing is performed when public access is used.



#### 3 User Registration

- ❖ **PSWC:** In Administrator, “System” page → “Authentication” → “User Registration”
  - Register the users.



NARRATION: This is an explanation of the procedure for specifying the user authentication settings.

Please note that you cannot use the control panel of this machine to specify the authentication settings. All authentication settings can be specified using PageScope Web Connection.

**Lesson 7 Quiz** Point Value: 50

Question 1 of 2 ▾

This machine supports the external server authentication.

True

False

---

**PROPERTIES**


On passing, 'Finish' button: [Goes to Next Slide](#)


On failing, 'Finish' button: [Goes to Next Slide](#)

Allow user to leave quiz: [At any time](#)

User may view slides after quiz: [At any time](#)

User may attempt quiz: [Unlimited times](#)

 Properties...

 Edit in Quizmaker

NARRATION: This is the review quiz for this lesson.

## 7.3 Lesson 7 Review

### Lesson 7

In this lesson you learned to:

- 1) Describe the overview of user authentication functions of this machine.
- 2) Specify the user authentication settings of this machine.

NARRATION: In this lesson, you learned about the following items.

## Lesson 8: Security Functions

### Lesson 8

Topics covered in the lesson include:

- 8.1 Overview
- 8.2 SSL/TLS
- 8.3 IPsec
- 8.4 IP Address Filtering
- 8.5 IEEE802.1x
- 8.6 Lesson 8 Review

NARRATION: The following “security function” topics will be covered in this lesson.

## 8.1 Overview

### ❖ Security Functions

Enabling the security functions of this machine enhances the security in your office.

#### ❖ Ensure Communication Security

- ❖ Spoofing Prevention (certification of data source)
- ❖ Data Encryption
- ❖ Data Falsification Prevention

##### SSL/TLS

- Encrypt communication from client to SSL/TLS server.
  - ❖ Encrypt Page Scope Web Connection communication from computer (client) to this machine (server).
  - ❖ Encrypt IPP communication from computer (client) to this machine (server).

##### IPsec

- Create virtual tunnel using encryption technology.

#### ❖ Access Restriction

- ❖ Restrict Access to This Machine
- ❖ Compatible with Network Protocols that Support IEEE802.1x

##### IP Address Filtering

- Restrict computers that can access this machine by IP address. [[Restrict Access to This Machine](#)]

##### IEEE802.1x

- Compatible with RADIUS server authentication. [[Compatible with Network Protocols that Support IEEE802.1x](#)]

NARRATION: Various functions to enhance the security in your office are provided with this machine.

Among these security functions, SSL/TLS, and IPsec use encryption technologies to secure the network communication.

IP Address Filtering and IEEE802.1x restrict access to this machine or to the network, and enhance security.

In addition, SSL/TLS, IPsec, and IEEE802.1x are realized by a combination of multiple encryption technologies. To understand these functions, you must understand the encryption technologies, in particular the algorithms of common key and public key.

## 8.2 SSL/TLS

- Overview
- Setting Method

NARRATION: This section will cover “SSL/TLS”.

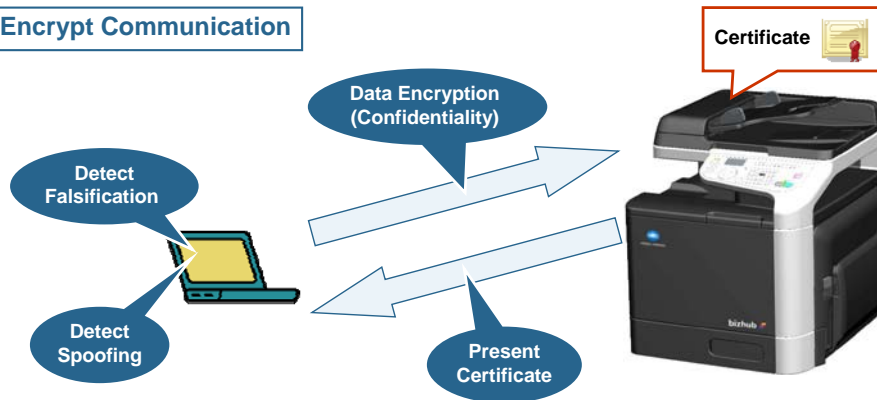


## Overview

### What is SSL/TLS (Secure Socket Layer/Transport Layer Security)?

- Combines multiple encryption technologies, such as one-way hash function, common key and public key, and secures communications.
  - ❖ Encrypt Page Scope Web Connection communication from computer to this machine.
  - ❖ Encrypt IPP communication from computer to this machine.

### Encrypt Communication



NARRATION: SSL/TLS is a protocol used to enable encryption technology to provide secure communication between the client and server. In general, it is used to ensure communication security between client computers and a server. The primary usages of SSL/TLS in this machine are to encrypt communication between PageScope Web Connection and client computers, and encrypt communication between IPP and client computers.

In this machine, you can install a certificate issued by a certificate authority to this machine. Also, you can create a self-signed certificate.

However, to protect against spoofing, the certificate must be signed by a trusted certificate authority. If you enable SSL connections and access to PageScope Web Connection of this machine, the Web browser displays a warning message when you use a self-signed certificate.

# Setting Method

## ❖ Setting Procedure

### 1 Install a Certificate

- ❖ **PSWC:** In Administrator, “Network” page → “SSL/TLS” → [Setting]
- Install a certificate to this machine by using either of the following.
  - ❖ Create a self-signed certificate.
  - ❖ Install a certificate issued by the CA (certificate authority).



### 2 Enable SSL/TLS

- ❖ **PSWC:** In Administrator, “Network” page → “SSL/TLS” → [Setting] → “Mode Using SSL/TLS”
- Enable the SSL/TLS function, to establish SSL/TLS-encrypted communication on this machine.



NARRATION: This is an explanation of the procedure for specifying the SSL/TLS settings.

Please note that you cannot use the control panel of this machine to specify the SSL/TLS settings. All SSL/TLS settings can be specified using PageScope Web Connection.

First, you must install a certificate to use in the SSL/TLS communication. There are two types of certificate that can be registered to this machine. One is a certificate issued by the certification authority, and the other is a self-signed certificate that is created by yourself on this machine. In addition, you can create the data for requesting the certification authority to issue a certificate.

Next, you must enable the SSL/TLS function on this machine.

## 8.3 IPsec

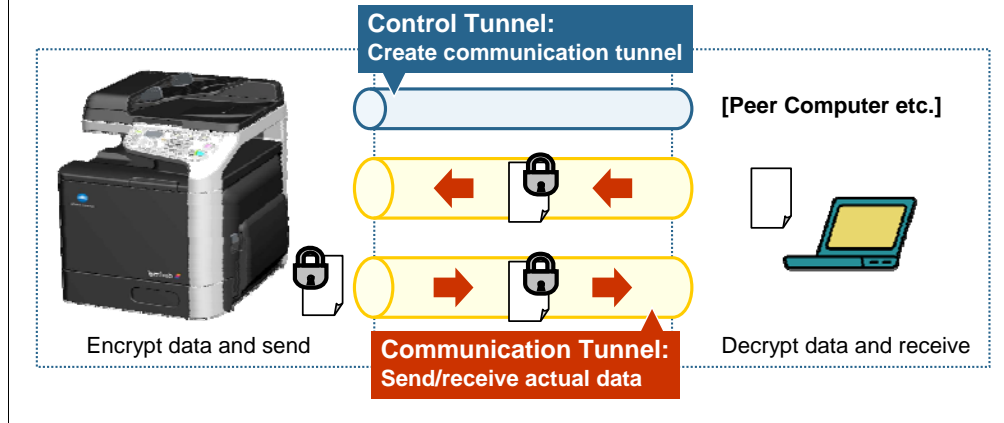
- Overview
- Setting Method

NARRATION: This section will cover “IPsec”.

## Overview

### What is IPsec (Security Architecture for Internet Protocol)?

- Combines multiple encryption technologies to exchange data securely through the Internet.
- Using encryption technology, creates a virtual tunnel between the data sender and recipient.
- Sends encrypted data through the virtual tunnel so that data is sent securely.



NARRATION: IPsec is a protocol used to secure the data exchange through the Internet.

Using encryption technology, it creates a virtual tunnel between the sender and recipient to exchange data through the Internet.

Data streams are sent through this virtual tunnel to avoid the risk of data being stolen by a third party. Even in the event that data is actually stolen by a third party, confidentiality is still maintained due to the data encryption process that occurs at the entrance of the tunnel.

At the exit of the tunnel, data is decrypted and delivered to the recipient.

## Setting Method

❖ **PSWC:** In Administrator, "Network" page → "TCP/IP" → "IPsec"

Control Panel PSWC

**General Settings**

**IPsec Overall Settings**

**IKE Settings**

**Control Tunnel Settings**

**IPsec SA Settings**

**Communication Tunnel (SA: Security Association) Settings**

**IPsec Peer Settings**

**IPsec Operation Mode Settings**

- Enable the IPsec function.
- Specify the IKE life time.
- Select IKE Diffie-Hellman group.
- Specify the IPsec SA life time.

- Select the encryption algorithm to be used when creating a control tunnel.
- Select the authentication algorithm to be used when creating a control tunnel.

- Select the security protocol used for data communication.
- ❖ AH (Authentication Header): You can use the authentication function and falsification prevention function.
- ❖ ESP (Encapsulated Security Payload): You cannot use the authentication function.
- Specify the necessary settings for each of the selected security protocols.

- Select whether to increase the IKE strength.
- Specify the IP address of the peer.
- Specify the pre-shared key text shared with the peer.
- Specify the operation mode of IPsec.

**NARRATION:** This is an explanation of the necessary settings for using the IPsec function.

In the General Settings section, specify the overall IPsec settings. To use IPsec, first you must enable IPsec in this section.

In the IKE Settings section, specify the settings related to the control tunnel.

In the IPsec SA settings section, specify the communication tunnel through which the data is exchanged.

In the IPsec Peer Settings section, specify the setting for use during communication between IPsec gateways.

In the peer's address, select the IP address of the peer IPsec gateway. This is because, when you use the main mode to create the control tunnel, you will need to notify the peer IPsec gateway of your IP address at the last step of the control tunnel creation.

When the tunnel mode is selected in encapsulation mode, the entire data is encrypted, including the header. When the transport mode is selected, only the packet data portion will be encrypted.

## 8.4 IP Address Filtering

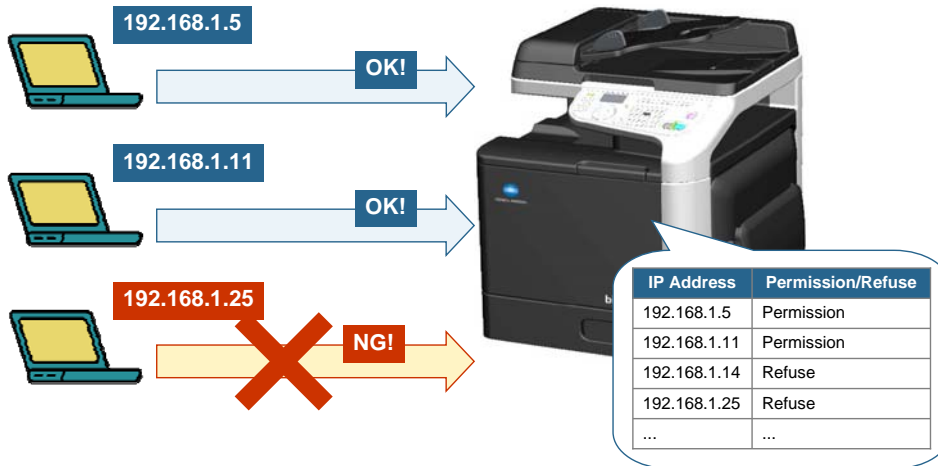
- Overview
- Setting Method

NARRATION: This section will cover “IP address filtering”.

## Overview

### What is IP Address Filtering?

- Function to restrict computers accessible to this machine.
- Specify the IP addresses of the computers permitted access and refused access to this machine.



NARRATION: You can restrict computers accessible to this machine.

# Setting Method

❖ **PSWC:** In Administrator, “Network” page → “TCP/IP” → “IP Address Filtering”

Control Panel

PSWC

## Access Permission Address

### Permit Connection

- Select whether to enable the access permission address.
- Specify the range of IP address permitted access to this machine when “Enable” was selected.

\* To specify a single IP address, type the same IP address into both the box.

\* If the starting IP address is larger than the ending IP address, the setting is not applied.

\* If the range of permitted IP address overlaps the range of refused IP address, the refuse setting is given priority.

## Access Refuse Address

### Refuse Connection

- Select whether to enable the access refusal address.
- Specify the range of IP address refused access to this machine when “Enable” was selected.

NARRATION: This is an explanation of the necessary settings for using the IP address filtering function.



## 8.5 IEEE802.1x

- Overview
- Setting Method

NARRATION: This section will cover “IEEE802.1x”.

## Overview [1/2]

### What is IEEE802.1x?

- A system that performs authentication on the authentication server before connecting a device to a LAN, and connects only the permitted devices to a LAN.
- Because this protocol prevents access of unauthorized devices to the network, robust security can be achieved.
- It was first widely used as the authentication technology for wireless LAN connections only. However, it is now also used for wired LAN connections.

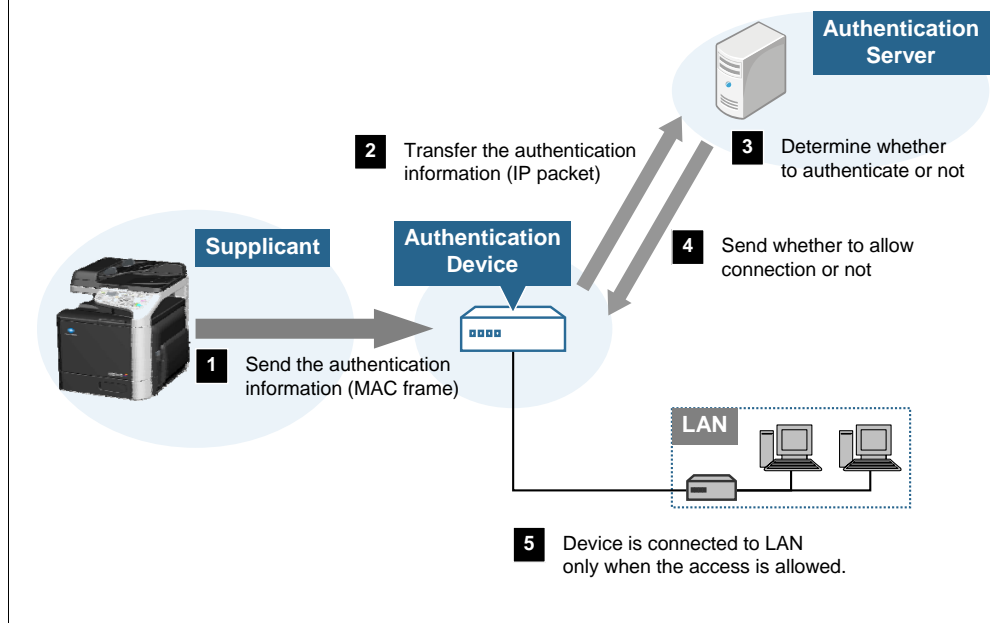
IEEE802.1x consists of the following three elements:

| Name   | Description   | Note  |
|--|---|---|
| <b>Supplicant</b>                            | <ul style="list-style-type: none"><li>▪ Exchange authentication information with authentication device.</li><li>▪ The software that operates on the device that wants to be connected with the network, such as computer and printer.</li></ul> | Standard feature of Windows 7/XP/Vista, Mac OS X and others.    |
| <b>Authentication Device (Authenticator)</b> | <ul style="list-style-type: none"><li>▪ Exchange authentication information between supplicant and authentication server.</li><li>▪ Connect the device to the network only after the device has been authenticated.</li></ul>                   | IEEE802.1x-compatible LAN switch and wireless LAN access point. |
| <b>Authentication Server (RADIUS Server)</b> | <ul style="list-style-type: none"><li>▪ Use the authentication information received from the authentication device, and determine whether to allow connection to LAN.</li></ul>   |   |

\* *The supplicant is installed on this machine.*

NARRATION: This is a protocol used to authenticate devices, such as a computer and printer connected to the network. Unlike the authentication between the client and server within a LAN, it uses hardware-level authentication, such as a LAN switch and wireless LAN access point. Therefore, robust security can be achieved.

## Overview [2/2]



**NARRATION:** This is an explanation of the procedure for connecting this machine to the IEEE802.1x network.

First, connect this machine to a IEEE802.1x-compatible LAN switch. In the technical term of IEEE802.1x, this LAN switch is called an authentication device.

Once this machine is connected to the authentication device, the supplicant installed on this machine sends authentication information to the authentication device. At this time, the port used to connect this machine is closed. Therefore the data in this machine will not be sent to the LAN. The authentication information from this machine is sent to the authentication device on the MAC frame.

The authentication device receives the authentication information, and then transfers the information to the authentication server. At this time, the authentication information is transformed on the IP packet and then transferred.

Once the authentication server receives the authentication information, it determines whether to allow authentication or not, and sends back the result to the authentication device.

Only after the authentication server allows connection, the authentication device opens the port to which this machine is connected.

## Setting Method

❖ **PSWC:** In Administrator, "Network" page → "Authentication" → "IEEE802.1x"

Control Panel

PSWC

IEEE802.1x

IEEE802.1x: Disable

EAP Type: None

User ID: [ ]

Password: [ ]

TTLS Anonymous Name: anonymous

TTLS Authentication Type: MS-CHAPv2

Server Certificate Check:  Validity  CA Chain  Server ID

Send Client Certificate: Disable

Client Certificate: Not Installed

CA Certificate: Not Installed

Server ID: [ ]

Encryption Strength: Low

Limit Time of Network Stop: 0 Seconds(60-255,0 Disable)

Apply Clear

▪ Enable the IEEE802.1x function.

▪ Specify the settings related to the exchange of authentication information with the authentication server (EAP).

▪ Specify the length of time to postpone stopping the network when authentication fails from the start of authentication.

NARRATION: This is an explanation of the necessary settings for using the IEEE802.1x function.

**Lesson 8 Quiz** Point Value: 33

Question 1 of 3 ▾

Which security function can send encrypted data through the virtual tunnel so that data is sent securely?

- IPsec
- IP Address Filtering
- IEEE802.1x
- SSL/TLS

**PROPERTIES**


On passing, 'Finish' button: [Goes to Next Slide](#)


On failing, 'Finish' button: [Goes to Next Slide](#)

Allow user to leave quiz: [At any time](#)

User may view slides after quiz: [At any time](#)

User may attempt quiz: [Unlimited times](#)

 Properties...

 Edit in Quizmaker

NARRATION: This is the review quiz for this lesson.

## 8.6 Lesson 8 Review

### Lesson 8

In this lesson you learned to:

- 1) Describe the security functions available to this machine: SSL/TLS, IPsec, IP address filtering, and IEEE802.1x.
- 2) Enable the security functions of this machine.

NARRATION: In this lesson, you learned about the following items.

## Lesson 9: Application

### Lesson 9

Topics covered in the lesson include:

- 9.1 LinkMagic
- 9.2 Local Setup Utility (LSU)
- 9.3 Lesson 9 Review

NARRATION: The following “application” topics will be covered in this lesson.

## 9.1 LinkMagic

- Overview
- System Requirement
- How to Use

NARRATION: This section will cover “LinkMagic”.



## Overview

### ❖ What LinkMagic can do?

- Saving scanned images as files
- Saving scanning documents as files
- Saving scanned images to the clipboard
- Attaching scanned images to an E-mail message
- Printing scanned images
- Registering frequently used software

NARRATION: By installing LinkMagic on a computer connected to this machine, these operations can be performed from the computer.

## System Requirements

|                                       | System Requirement  |
|---------------------------------------|---|
| <b>CPU</b>                            | Intel Pentium II: 400 MHz or higher   |
| <b>Operating System</b>               | <ul style="list-style-type: none"> <li>▪ [32bit]<br/>Windows 7 Home Premium/Professional/Ultimate/Enterprise, Windows XP Home Edition/Professional (Service Pack 2 or later), Windows Vista Home Basic/Home Premium/Ultimate/Business/Enterprise (Service Pack 1), Windows Server 2003 (Service Pack 2 or later), Windows Server 2008 Standard/Enterprise</li> <li>▪ [64bit]<br/>Windows 7 Home Premium/Professional/Ultimate/Enterprise, Windows XP Professional (Service Pack 2 or later), Windows Vista Home Basic/Home Premium/Ultimate/Business/Enterprise, Windows Server 2003 (Service Pack 2 or later), Windows Server 2008 Standard/Enterprise, Windows Server 2008 R2 Standard/ Enterprise</li> </ul> |
| <b>Compatible E-mail Applications</b> | <ul style="list-style-type: none"> <li>▪ Microsoft Outlook Express ver.6.0</li> <li>▪ Microsoft Outlook 2000/2003/XP/2007/2010</li> <li>▪ EUDORA 7.0.1</li> <li>▪ Netscape Messenger 7.1</li> <li>▪ Windows Mail ver.6.0</li> <li>▪ Windows Live Mail</li> <li>▪ Lotus Notes Client 7.0.2/8</li> </ul>  |
| <b>Supported Language</b>             | <ul style="list-style-type: none"> <li>▪ English, French, German, Italian, Spanish, Portuguese, Russian, Czech, Slovak, Hungarian, Polish, Korean, Simplified Chinese, Traditional Chinese</li> </ul>   |

\* *Before installing LinkMagic, connect the machine to the computer with a USB cable or via a network, and then install the printer driver and the scanner driver.*

NARRATION: Before installing LinkMagic, make sure that your system meets these system requirements, and that the computer is equipped with a built-in or external CD/DVD-ROM drive.

## How to Use



| No. | Name              | Description  |
|-----|-------------------|--|
| 1   | Scan Modes        | <ul style="list-style-type: none"> <li>This group box contains buttons programmed with various LinkMagic functions (Scan Image, Scan Document, Scan to Clipboard, Scan and Mail, and Scan and Print).</li> </ul> |
| 2   | [Start] key       | <ul style="list-style-type: none"> <li>A function from the "Scan Mode" group box can be assigned to these keys.</li> <li>Pressing each [Start] key on the machine performs the assigned function.</li> </ul>     |
| 3   | [Settings] button | <ul style="list-style-type: none"> <li>Displays the "Settings" dialog box.</li> </ul>  |
| 4   | [Help] button     | <ul style="list-style-type: none"> <li>Displays the help.</li> </ul>   |
| 5   | Launcher Area     | <ul style="list-style-type: none"> <li>Frequently used software can be registered.</li> <li>Clicking this button starts the registered software.</li> </ul>  |

NARRATION: This is an explanation of how to use LinkMagic. For details, click on the link.

## 9.2 Local Setup Utility (LSU)

- Overview
- System Requirement
- How to Use

NARRATION: This section will cover the “Local Setup Utility”.

## Overview

### ❖ What Local Setup Utility can do?

- Saving the speed dial, group dial, and favorite
- Changing the speed dial, group dial, and favorite
- Printing the speed dial, group dial, and favorite
- Checking the counters and machine status

NARRATION: By installing the Local Setup Utility on a computer connected to this machine, these operations can be performed from the computer.

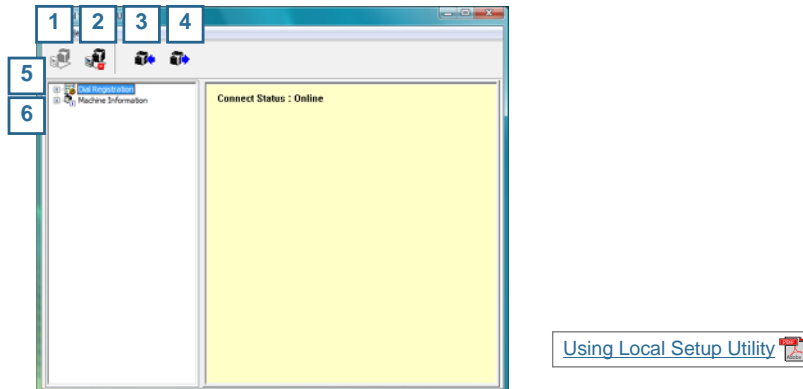
## System Requirements

|  | System Requirement   |
|--|--|
| <b>CPU</b>                                     | Intel Pentium II: 400 MHz or higher  |
| <b>Operating System</b>                        | <ul style="list-style-type: none"> <li>▪ [32bit]<br/>Windows 7 Home Premium/Professional/Ultimate/Enterprise, Windows XP Home Edition/Professional (Service Pack 2 or later), Windows Vista Home Basic/Home Premium/Ultimate/Business/Enterprise (Service Pack 1), Windows Server 2003 (Service Pack 2 or later), Windows Server 2008 Standard/Enterprise</li> <li>▪ [64bit]<br/>Windows 7 Home Premium/Professional/Ultimate/Enterprise, Windows XP Professional (Service Pack 2 or later), Windows Vista Home Basic/Home Premium/Ultimate/Business/Enterprise, Windows Server 2003 (Service Pack 2 or later), Windows Server 2008 Standard/Enterprise, Windows Server 2008 R2 Standard/Enterprise</li> </ul> |
| <b>Memory</b>                                  | <ul style="list-style-type: none"> <li>▪ Memory capacity recommended for the operating system.</li> <li>* <i>There should be enough memory for the operating system and the applications used.</i></li> </ul>  |
| <b>Free Hard Disk Space</b>                    | 100 MB or more   |
| <b>Connecting the Computer and the Machine</b> | USB 2.0 (High-Speed) connection  |
| <b>Web Browser</b>                             | Microsoft Internet Explorer version 6.0 or later   |
| <b>Supported Language</b>                      | <ul style="list-style-type: none"> <li>▪ English, French, German, Italian, Spanish, Portuguese, Russian, Czech, Slovak, Hungarian, Polish, Korean, Simplified Chinese, Traditional Chinese</li> </ul>  |

\* *Before installing the Local Setup Utility, connect the machine to the computer with a USB cable, and then install the printer driver and the scanner driver.*

NARRATION: Before installing the Local Setup Utility, make sure that your system meets these system requirements, and that the computer is equipped with a built-in or external CD/DVD-ROM drive.

## How to Use



| No. | Name                | Description   |
|-----|---------------------|---|
| 1   | [Connect] button    | Connect the machine with the computer.                                  |
| 2   | [Disconnect] button | Cut the connection between the machine and the computer.                |
| 3   | [Upload] button     | Send the settings file to the machine.                                  |
| 4   | [Download] button   | Send the machine's settings to the computer                             |
| 5   | Dial Registration   | Display and set the "Speed Dial", "Group Dial" and "Favorite" settings. |
| 6   | Machine Information | Display the machine information.  |

NARRATION: This is an explanation of how to use the Local Setup Utility. For details, click on the link.

**Lesson 9 Quiz**



Question 1 of 3 Point Value: 40

What can you operate by LinkMagic? (select the two that apply)

- Attaching scanned images to an E-mail message.
- Checking the counters and machine status.
- Saving scanned images as files.
- Changing the Speed Dial.

**PROPERTIES**

On passing, 'Finish' button: [Goes to Next Slide](#)  
On failing, 'Finish' button: [Goes to Next Slide](#)  
Allow user to leave quiz: [At any time](#)  
User may view slides after quiz: [At any time](#)  
User may attempt quiz: [Unlimited times](#)

 Properties...  Edit in Quizmaker

NARRATION: This is the review quiz for this lesson.



## 9.3 Lesson 9 Review

### Lesson 9

In this lesson you learned to:

- 1) Operate LinkMagic.
- 2) Operate Local Setup Utility.

NARRATION: In this lesson, you learned about the following items.

## Lesson 10: Maintenance

### Lesson 10

Topics covered in the lesson include:

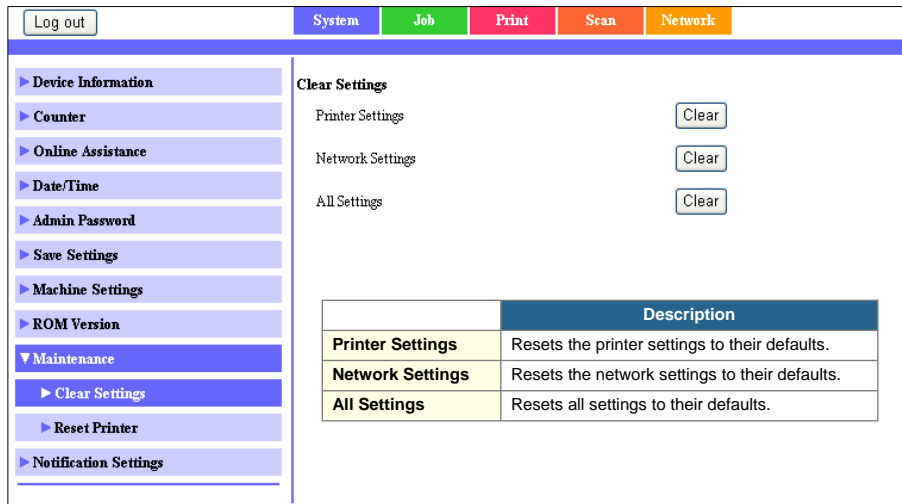
- 10.1 Print a Configuration Page
- 10.2 Clear Settings
- 10.3 Reset Printer
- 10.4 HDD Format/Card Format
- 10.5 Firmware Upgrade
- 10.6 Lesson 10 Review

NARRATION: The following “maintenance” topics will be covered in this lesson.



## 10.2 Clear Settings

- ❖ **PSWC:** In Administrator, "System" page → "Maintenance" → "Clear Settings"
  - Click [Clear], the message "Is it OK to restore Factory Defaults?" appears. Click [OK] to automatically restart the machine and return the settings to their default values.



Log out System Job Print Scan Network

▶ Device Information  
▶ Counter  
▶ Online Assistance  
▶ Date/Time  
▶ Admin Password  
▶ Save Settings  
▶ Machine Settings  
▶ ROM Version  
▼ Maintenance  
▶ Clear Settings  
▶ Reset Printer  
▶ Notification Settings

**Clear Settings**

Printer Settings

Network Settings

All Settings

|                         | Description                                    |
|-------------------------|--|
| <b>Printer Settings</b> | Resets the printer settings to their defaults. |
| <b>Network Settings</b> | Resets the network settings to their defaults. |
| <b>All Settings</b>     | Resets all settings to their defaults.         |

NARRATION: This item allows you to return the settings to their factory default values. After this item is used, the machine is automatically restarted.

## 10.3 Reset Printer

- ❖ **PSWC:** In Administrator, "System" page → "Maintenance" → "Reset Printer"
  - Click [Reset], the message "Is it OK to reset the Printer?" appears. Click [OK] to automatically restart the machine.



NARRATION: This item allows you to restart the machine from PageScope Web Connection.

## 10.4 HDD Format/Card Format

### ❖ HDD Format

❖ **Control Panel:** In Copy mode, “PS/PCL PRINT” → “SYS DEFAULT MENU” → “HDD FORMAT”

\* *This menu item appears only if an optional hard disk kit is installed.*

- The message “ARE YOU SURE?” appears. Click **[Select]** key to format the hard disk.

|                       | Description  |
|-----------------------|--|
| <b>USER AREA ONLY</b> | Format the user area of the hard disk of this machine. When this item is used, the machine is automatically restarted. |
| <b>ALL</b>            | Format the hard disk of this machine. When this item is used, the machine is automatically restarted.                  |

### ❖ Card Format

❖ **Control Panel:** In Copy mode, “PS/PCL PRINT” → “SYS DEFAULT MENU” → “CARD FORMAT”

\* *This menu item appears only if an optional CompactFlash card is installed.*

- The message “ARE YOU SURE?” appears. Click **[Select]** key to format the CompactFlash card.

|                       | Description  |
|-----------------------|--|
| <b>USER AREA ONLY</b> | Format the user area of the CompactFlash card of this machine. When this item is used, the machine is automatically restarted. |
| <b>ALL</b>            | Format the CompactFlash card of this machine. When this item is used, the machine is automatically restarted.                  |

NARRATION: This item allows you to format the hard disk or the CompactFlash card of this machine.

## 10.5 Firmware Upgrade

### ❖ Check the Firmware Version

- ❖ **Control Panel:** In Service mode, "DISPLAY"
- ❖ **PSWC:** In Administrator, "System" page → "ROM Version"

|                         |                               |                |       |      |         |
|-------------------------|-------------------------------|----------------|-------|------|---------|
| Log out                 | System                        | Job            | Print | Scan | Network |
| ▶ Device Information    | <b>ROM Version</b>            |                |       |      |         |
| ▶ Counter               | Engine ROM Version            | A2YF50G0010000 |       |      |         |
| ▶ Online Assistance     | Controller ROM Version        | A2YF35G0011200 |       |      |         |
| ▶ Date/Time             | PS/PCL Controller ROM Version | A2YF30G0010900 |       |      |         |
| ▶ Admin Password        | Boot ROM Version              | A2YF98G0010100 |       |      |         |
| ▶ Save Settings         | PS/PCL Boot ROM Version       | A2YF99G0010100 |       |      |         |
| ▶ Machine Settings      | CPLD Version                  | V003           |       |      |         |
| ▶ ROM Version           |                               |                |       |      |         |
| ▶ Maintenance           |                               |                |       |      |         |
| ▶ Notification Settings |                               |                |       |      |         |

### ❖ Firmware Upgrading Procedure

[Controller Firmware](#) 

[PS/PCL Firmware](#) 

[Engine Firmware](#) 

NARRATION: This is an explanation of the method for upgrading firmware. For details regarding the firmware upgrading procedure, click on the links.

**Lesson 10 Quiz** Point Value: 40



Question 1 of 3 ▾

Where can you check the firmware version of this machine from? (select the two that apply)

- Service mode of the control panel
- Administrator of PageScope Web Connection
- ADMIN. MANAGEMENT menu of the control panel
- Registered User of PageScope Web Connection

**PROPERTIES**

On passing, 'Finish' button: [Goes to Next Slide](#)  
On failing, 'Finish' button: [Goes to Next Slide](#)  
Allow user to leave quiz: [At any time](#)  
User may view slides after quiz: [At any time](#)  
User may attempt quiz: [Unlimited times](#)

 Properties...  Edit in Quizmaker

NARRATION: This is the review quiz for this lesson.



## 10.6 Lesson 10 Review

### Lesson 10

In this lesson you learned to:

- 1) Print a configuration page.
- 2) Clear the settings to their factory default values.
- 3) Reset the printer from PageScope Web Connection.
- 4) Format an optional hard disk and CompactFlash card of this machine.
- 5) Upgrade the firmware.

NARRATION: In this lesson, you learned about the following items.

## Course Completion

Congratulations! You have successfully completed the **bizhub C25** Controller & Fax Web Based Technical Training Course.

After reviewing this course you should now have a good understanding of:

- Product Overview
- PageScope Web Connection
- Copy Functions
- Print Functions
- Scan Functions
- Fax Functions
- User Authentication
- Security Functions
- Application
- Maintenance



NARRATION: Congratulations! You have successfully completed the bizhub C25 Controller & Fax Web Based Technical Training Course.