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INSTRUCTION MANUAL

IP-421

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..... *Index-1 iv Print Controller INSTRUCTION MANUAL Introduction I Introduction The IP-421 is a print controller designed to be housed in the Konica 7020 Copier/Printer, and to work as a network printer when a KN-303 network interface card is used. By using the Printer EKC feature, you can manage the number of prints on the copier. An optional hard disk, HD-103, is available for the IP-421 Print Controller. By installing this hard disk, the copier can be used as a network scanner.*

You can save image data scanned by the copier to the Print Controller's hard disk and read the saved data into TWAIN-compliant applications ,such as Adobe Photoshop LE. Installation of a hard disk makes it possible to use a Password Print feature. This feature prohibits a print job from being carried out unless a user ID and password are entered on the copier. This is useful for protecting sensitive information. The copier can also function as a network fax machine when used in conjunction with the FK-101 Fax Kit (a faxing facility called PC-FAX). The copier/printer, the optional network card and Fax kit include operating manuals (7020 series INSTRUCTION MANUAL/KN-303 INSTRUCTION MANUAL (CD)/FK-101 INSTRUCTION MANUAL respectively) .



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Copyright COPYRIGHT © 2001 Konica corporation. All rights reserved. Patent Notice The product includes an implementation of LZW licensed under U.S. Patent 4,558,302.

Built-in Fonts The IP-421 Print Controller supports PCL5e Language (HP PCL clone) and includes 45 built-in Agfa Microtype fonts. For a complete list, see "Appendix C Font List". G Part or all of this INSTRUCTION MANUAL shall not be used or copied without permission. G Konica shall have no liability for any problems caused by using the 7020 series copier + IP-421 system and this manual. G Information written in this INSTRUCTION MANUAL is subject to change without notice. G Konica Corporation shall have the copyright of this printer driver. Print Controller INSTRUCTION MANUAL v Introduction I

About Supplied Items The following items are supplied with the IP-421 Print controller: · User Software CD · · · · Printer Driver INSTRUCTION MANUAL (this manual) Release Note (The latest information and limits of the system and user software are included.) Scanner driver vi Print Controller INSTRUCTION MANUAL Introduction I About This Manual This manual describes how to operate the Konica IP-421 print controller when the Konica 7020 series copier is used as a printer by connecting it to a computer or your network. The optional Network Interface Card (KN-303) and Hard Disk (HD-103) are required for connecting to a network on which the Konica 7020 series can function as a network printer/scanner. Refer to the "7020 series INSTRUCTION MANUAL" and the "KN-303 INSTRUCTION MANUAL" included with the printer engine (7020 series) and the optional network interface card (KN-303) respectively for their operations.

This manual is composed of the following seven chapters and Appendix: Chapter 1: Overview Chapter 1 describes the Print controller hardware and the overview of its functions, and briefly explains how to connect the parallel ports of computers to the Print controller and the Printer (7020 series). Chapter 2: Setup Chapter 2 describes how to install the user software included on the user software CD on Windows®-compliant computers. Installing the user software enables printing from each application of Windows®-compliant computers to the Printer (7020 series) by way of a network/ parallel port. Chapter 3: Printer Driver Chapter 3 describes the corresponding environment and various functions of the Printer Driver installed on Windows®-compliant computers. Chapter 4: Control Panel Setup Chapter 4 describes the layout of the control panel of the Printer (7020 series) and shows how to operate and set functions on the control panel. Chapter 5: Scanner Chapter 5 describes how to scan a graphic at the Printer (7020 series) and transfer it to a Windows®-compliant computer and then to the Printer (7020 series) by way of a network. Chapter 6: Printer EKC Chapter 6 describes how to set and use the Printer EKC. Chapter 7: PC-FAX Chapter 7 describes faxing a file directly from your PC by using a Fax kit. Appendix · · · Appendix A describes troubleshooting tips for the Print Controller. Appendix B describes product specifications.

Appendix C lists the built-in printer fonts included with the Print Controller. Print Controller INSTRUCTION MANUAL vii Introduction I System Requirements G Windows The following are required to print from Windows®-compliant computers to the Print Controller. · · · Computer with Windows95/98/Me operating system and its CPU is equivalent to or higher than Intel 80486 or Pentium class. Operating system requires 32 MB RAM or more. CD-ROM drive (necessary to install the user software) Parallel Port The following are required to print to the Print controller by way of the parallel port.

· · Windows-compliant computers IEEE 1284 parallel cable One end of the cable must have an amphenol 36 pin male connector connected to the Print controller. viii Print Controller INSTRUCTION MANUAL Introduction I Conventions Used in this Manual · Notation of each product The following abbreviations are used in this manual: (1) IP-421 Print Controller: (2) Konica 7020 series Printer/Copier: (3) KN-303 Network Interface Card: (4) HD-103 (5) FK-101 (6) A system that combines the above (1) and (2) or (1),(2) and (3) products: printing system print controller copier network interface card hard disk fax kit · Notational conventions used in this manual when referring to specific features are written within quotation marks e.g., "Chapter 1: Overview" . · Notation of names shown on the screen are enclosed in brackets [].

(e.g. Click the [OK] button.) · Notation of cautions Important items to be heeded are indicated by caution symbols and memos. Each mark used in this manual has the following meaning. Precautions and limits at the time the operating hardware or software was written. Hints, advice, confirming items, etc. at the time the operating hardware or software was written. Print Controller INSTRUCTION MANUAL ix Chapter 1 Overview I Contents of this Chapter ..

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Controller INSTRUCTION MANUAL Chapter 1 Overview I Overview of the Print Controller G Print Controller and Printer Engine The print controller
enables the copier connected to a computer or network to print from applications on Windows 95/98/Me or NT4.0/2000. To connect to a network, the optional
network interface card is required. When the command for printing is executed from applications on Windows 95/98/Me or NT4.0/ 2000, print data is sent to
the print controller by way of a parallel cable (IEEE 1284) or a network.



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Then, the print controller rasterizes the print data to image data, which is sent to the copier Printer Engine by way of the PCI bus.

The print controller can receive the command for printing from applications even while the Printer Engine is printing the previous print jobs or receiving data. The printing system can continuously print Letter/A4-size paper at a print speed of 20-35 ppm. In addition, this system supports the duplex function and the finisher function which enables using four paper trays, alternate printing and stapling. Conceptual Connection Fax Kit When used as a networked printer Copier Network Interface Card is required. Print Controller PSTN When used as a local printer E-RDH (Electronic Recirculating Document Handler) The E-RDH is a system which temporarily saves print data in the memory of the copier to enable printing in accordance with the selected option. To print from the print controller, the ERDH of the copier is used. The E-RDH memory of the copier is 32 MB (standard) and can be extended to 288 MB maximum. The E-RDH is used in the 1 bit mode. Data of approximately 180 pages of A4-size paper can be saved in the 32 MB (standard) E-RDH memory. Print Controller INSTRUCTION MANUAL 1-3 Chapter 1 Overview Copy Mode, FAX Mode and Printer / Scanner Mode Every mode of the copier operation panel can be used.

Even while the copier is printing or copying, the print controller can receive the next job, and while the print controller is receiving a print job, you can copy or send faxes. Network Scanner By installing the optional network interface card and hard disk on the print controller, image data scanned by the copier is stored to the print controller's hard disk and read into TWAIN-compliant applications via a network. It can be also modified by this application. Printer EKC Printer EKC is a feature to manage the number of prints on the copier. Provided the previously established password is entered, the Printer EKC feature counts printouts and determines when a preset limit has been reached.

The Printer EKC feature rejects print requests from a client without a valid password. PC-FAX By outfitting the print controller with an optional network interface card, a hard disk and a fax kit, you can send a fax via your printing system from the separate client PCs on the network in the same way as for normal printing. 1-4 Print Controller INSTRUCTION MANUAL Chapter 1 Overview G Print Controller Hardware Configuration Basic Configuration Configuration of the print controller is as follows: Control board CPU: Pentium MMX-166 MHz Program memory: FLASH ROM (Compact Flash) 16 MB System memory: 32 MB SD-RAM Memory The print controller is equipped with 32 MB memory as standard and can be expanded to 160 MB maximum. G I/O Interface Parallel Centronics (IEEE1284)/ amphenol 36 pin male connector PCI Bus Card Edge Type/20 MHz/32 bit Ethernet (option) 100Base-TX and 10Base-T The optional network interface card is used to connect to the Ethernet. The network interface card is the internal print server card which supports multiple protocols on the Ethernet.

This card includes a CPU and a flash memory with an upgradable program. The network interface card supports the following network protocol. · IPX/SPX (NetWare, Peer to Peer) TCP/IP (LPD/LPR, Peer to Peer) Refer to the corresponding INSTRUCTION MANUAL for connection to the network interface card. Print Controller INSTRUCTION MANUAL 1-5 Chapter 1 Overview G Data Flow Computer Application Print Commands Printer Spooler Browser HTML Parallel I / F (IEEE1284) Ethernet I/F (TCP/IP, IPX/SPX) Interface Network Interface Card (Option) Parallel I / F PCI bus Print Controller Input Buffer Hard disk (Option) PDL Processing (Rasterization) Page memory PCI bus Printer Engine E-RDH memory Engine(Print) PDL command Rasterized image data Printer status 1-6 Print Controller INSTRUCTION MANUAL Chapter 1 Overview G How to Use Memory Most print controller memory is used for rasterizing images and the functions of cache and overlay, only a small part of memory is used for system operation. In addition, the copier's E-RDH memory is used for print processing. The basic memory setting of the print controller is 32 MB, which allows 1 bit mode (600 dpi) printing for all paper sizes. The print controller memory can be expanded to 160 MB maximum. In addition, the copier E-RDH can be expanded to 288 MB maximum. The more memory included in the print controller, the more pages that can be rasterized while waiting for printing of the previous job. When letter-size paper is used, approximately 4,345 KB memory is required to print 1 bit data in 600dpi.

If you have a very complex page in a print job or if you frequently need to print out data on A3 or larger size paper, memory errors may occasionally occur depending on the print controller's memory size available for rasterization (bitmap extracting process). In this case, it is recommended that you extend the print controller's memory. When printing out data using Duplex print, Staple print or other advanced features, you need data of the whole job rasterized by the print controller and stored in E-RDH memory. Therefore, when printing a document with a very large number of pages, the data may be not print out according to the printing features specified. To solve this problem, it is recommended that you expand the print engine's (copier's) memory (E-RDH memory).

Memory Upgrading To obtain optimum printer performance, memory expansion is recommended. Contact your service representative for details. Print Controller INSTRUCTION MANUAL 1-7 Chapter 1 Overview G General View The print controller is mounted onto the copier. The following shows the general view from the front. Print Controller Network Interface Card (Option) Parallel Port The print controller is attached to the rear side of the copier. Copier 1-8 Print Controller INSTRUCTION MANUAL Chapter 1 Overview I About the Printer Driver G Compliant OS The printer driver can be used on the following OS. Windows 95 Windows 98 Windows Me Windows NT4.0 Windows 2000 Refer to "Chapter 2 Setup" (page 2-1) to learn how to install the printer driver. Refer to "Chapter 3 Printer Driver" (page 3-1) for detailed functions of the printer driver. Print Controller INSTRUCTION MANUAL 1-9 Chapter 2 Setup I Contents of this Chapter .

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.... 2-12 Print Controller INSTRUCTION MANUAL 2-1 Chapter 2 Setup 1 Contents of this Chapter To use the printing system, connect the printing system to computers by way of the parallel port or Ethernet port and install the printer driver in the computers.



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This chapter describes the installation of the printer driver and explains how to print from applications. Refer to "Parallel Port" (page viii) for detailed information on connecting to the parallel port. Refer to "Chapter 3 Printer Driver" (3-1 page) for functions of the printer driver. When the optional network interface card is added to the print controller, you must specify an appropriate network port, not an LPT1 (parallel port), to send output from the printer driver. For network ports, consult the network administrator.

2-2 Print Controller INSTRUCTION MANUAL Chapter 2 Setup I Installation of the Printer Driver G Before Installation Models and Computer Environment
The print controller for the copier can be used with Windows - based computers. The print controller includes the printer driver for Windows95/98/Me and WindowsNT4.0/2000.. The printer driver can be installed on any computer model installed with Windows95/98/Me or Windows NT4.0/2000. When installing the printer driver, a screen may appear that asks the user to select whether the printer driver file (file to be copied) or a new file that exists in the computer is to be used. If this screen appears, select use of a new file that already exists in the computer. If a new file is not used, the OS may not start up properly the next time the OS is started up. G Installing to Windows95/98/Me Perform the following steps to install the Printer Driver to Windows 95/98/Me.

Please keep the "User Software CD" on hand since it is required to install the printer driver. When an old version printer driver is installed, make sure to uninstall the driver before installing the new printer driver. Refer to [Uninstalling the Printer Driver] for instructions on uninstalling the printer driver. 1. 2. Turn on the computer and start Windows. When Windows applications are active, quit all of them. Click the [Start] button of the task bar. Then, select [Settings] of the Start menu to click [Printers] from the sub-menu. The [Printers] window will open.

Opening from [My Computer] You can open the [Printers] window by double-clicking the [Printers] folder after double clicking the [My Computer] icon of the desktop. Print Controller INSTRUCTION MANUAL 2-3 Chapter 2 Setup 3. Double-click the [Add Printer] icon of the [Printers] window. The [Add Printer Wizard] to install the printer driver will appear. Then, follow the [Add Printer Wizard] to install the printer driver.

The PCL printer driver for Windows 95/98/Me is stored in the [Win9x] folder of the [Printer] folder on the [User Software CD] (CD-ROM). G Installing to WindowsNT4.0/2000 The installation of the printer driver in Windows 2000 or Windows NT4.0 should be performed by a qualified system administrator or printer administrator. The process of installing the printer driver necessitates the User Software CD.

Get it ready in advance. About Printer Administration under Windows 2000 or Windows NT4.0 Since Windows 2000 and Windows NT4.0 are operating systems intended for network operations, they offer more security options than in other Windows versions. There are limitations to what you can operate or set up with their internal printers depending on the selected security level (access authorization). The table below provides an overview of the printer access authorizations and operational limits. Access Rights Operation Range No Rights No operations of printers are allowed. Printing Execution of document printing and the following print conditions of each document are allowed to be set. · Operations related to printing (selection of a paper size and paper tray, etc.) · Operations related to graphics (processing of resolution and halftone, etc.

) · Printer functions (selection of functions peculiar to the copier) · Control of document settings · Pause, restart, reprinting, and deletion of documents · All of "Printing" and "Document Management" · Pause and restart of the printer and deletion of all documents · Settings and changes of printer information · Deletion of the printer · Settings and changes of printer access rights Document Management Full Control After installing the printer driver, set up an appropriate access authorization for the person assigned to operate the printer. For guidance in setting up the printer access authorization, refer to "System Guide" for Windows 2000 and Windows NT4.0. 2-4 Print Controller INSTRUCTION MANUAL Chapter 2 Setup Installation Using [Add Printer] In this method, only the printer driver is installed. 1. 2. 3. Turn on the computer and start Windows NT 4.0 or Windows 2000. Exit from all active Windows applications, if required.

Log on as an administrator (or a user entitled to install the Power User, etc.). Click the [Start] button of the task bar. Then, select [Settings] of the [Start] menu and click [Printers] from the sub-menu. The [Printers] window will open.

Opening from [My Computer] Using Windows NT4.0 To open the [Printers] window, double-click the [Printers] folder after double clicking the [My Computer] icon on the desktop. Using Windows 2000 To open the [Printers] window, double-click the [Printers] folder after double clicking the [Control Panel] folder in [My Computer] icon on the desktop. 4. Double-click the [Add Printer] icon of the [Printers] window.

The [Add Printer Wizard] to install the printer driver will appear. Then, follow [Add Printer Wizard] to install the printer driver. PCL printer driver for Windows NT4.0/2000 is stored in the [WinNT&2000] folder of the [Printer] folder on the [User Software CD] (CD-ROM). Print Controller INSTRUCTION MANUAL 2-5 Chapter 2 Setup G Uninstalling the Printer Driver 1. 2. Quit all active Windows applications. Click the [Start] button of the task bar. Then, select [Settings] of the Start menu and click [Printers] from the sub-menu. The [Printers] window will open.

3. 4. 5. Right-click the [Konica IP-421 PCL] icon. Select [Delete]. Click the [Yes] button. The printer driver will be uninstalled. I Test Page You can check whether the printer driver functions properly by performing a test page after the printer driver has been installed. 1. Click the [Start] button of the task bar.

Then, select [Settings] of the Start menu and click [Printers] in the sub menu. The [Printers] window will open. Opening from [My Computer] Using Windows NT4.0/95/98 To open the [Printers] window, double-click the [Printers] folder after double clicking the [My Computer] icon on the desktop. Using Windows 2000 To open the [Printers] window, double-click the [Printers] folder after double clicking the [Control Panel] folder in [My Computer] icon on the desktop.

2. 3. Right-click [Konica IP-421 PCL] and click [Properties]. [Konica IP-421 PCL Properties] will appear. Select [General] of [Konica IP-421 PCL Properties] and click the [Print Test Page] button.



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A test print will start and a screen to confirm print end will appear. 4. Click the [Yes] button. A test print will end. 2-6 Print Controller INSTRUCTION MANUAL Chapter 2 Setup I Printing from Applications The method of printing depends upon your OS or applications. Printing with a Windows application is explained below. Please perform printing with an application using the "PCL printer driver" in the following way. G Execution of Printing 1. 2. Click the [File] menu of each application and click [Print].

Check that [Konica IP-421 PCL] is shown on [Printer Name] and click [OK]. When [Konica IP-421 PCL] is not shown, select it from the list box. Setting the [Print] dialog box Refer to the user's manual of each application. Print settings of the printer driver Refer to "Chapter 3 Printer Driver" for print settings of the printer driver. G Print Settings Perform various settings at the time of printing on the printer driver setup screen. Displaying the Setup Screen 1. 2. Click the [File] menu of each application and click [Print]. Check that [Konica IP-421 PCL] is shown on [Printer Name] and click [Properties]. When [Konica IP-421 PCL] is not shown, select it from the list box.

[Konica IP-421 PCL on (Port Name) : Properties] will appear. Print Controller INSTRUCTION MANUAL 2-7 Chapter 2 Setup I Contents of Settings The displayed screen depends on your OS. Certain tabs may not be displayed depending on settings. For instructions regarding how to set the printer driver's individual items, refer to "Chapter 3, Printer Driver Function List". G Windows 95/98/Me Click [Start]-[Settings]-[Printers] so that the [Printers] window appears.

Right-click on the Printer icon in the resulting window. A menu will appear; you can click on [Properties] to access the Properties window which looks like this: [Details] tab [Graphics] tab Print to the following Port / Print using the following driver / Add Port / Delete Port / New Driver / Capture Printer Port / End Capture / Timeout settings / Spool Settings / Port Settings Solid Black and White / Patterned Grays / Diffused Grays / Brightness / Contrast / Negative [Setup] tab [Paper] tab Available options / Installed options / Installed memory Copies / Collate / Orientation / Offset / Staple / Combination / Front Cover / Back Cover / Cover Tray / Paper Size / Media Type / Paper Source / Duplex / Output Tray 2-8 Print Controller INSTRUCTION MANUAL Chapter 2 Setup [Overlay] tab [Watermarks] tab Symbol / Shade / Size / Position Watermark / Font / Position [FAX] tab [About] tab Mode Selection / Fax Mode Setup / Enter Recipient / Phonebook / Recipients Print Controller INSTRUCTION MANUAL 2-9 Chapter 2 Setup G Windows NT4.0 Click [Start]-[Settings]-[Printers] so that the [Printers] window appears. Right-click on the Printer icon in the resulting window. A menu will appear, in which you can click on [Properties] or [Document Defaults] to get access to the Properties window which looks like this: [Sharing] tab [Paper] tab Not Shared / Shared / Share Name / Alternate Drivers Copies / Collate / Orientation / Offset / Staple / Combination / Front Cover / Back Cover / Cover Tray / Paper Size / Media Type / Paper Source / Duplex / Output Tray [Security] tab [Graphics] tab Permissions / Auditing / Ownership Solid Black and White / Patterned Grays / Diffused Grays / Negative 2-10 Print Controller INSTRUCTION MANUAL Chapter 2 Setup [Options] tab [Setup] tab Outline soft fonts / Bitmap soft fonts / Rasters Available options / Installed options / Installed memory [FAX] tab [About] tab Mode Selection / Fax Mode Setup / Enter Recipient / Phonebook / Recipients Print Controller INSTRUCTION MANUAL 2-11 Chapter 2 Setup G Windows 2000 Click [Start]-[Settings]-[Printers] so that the [Printers] window appears.

Right-click on the Printer icon in the resulting window. A menu will appear, in which you can click on [Properties] or [Printing Preferences] to get access to the Properties window which looks like this: [Sharing] tab [Paper] tab Not shared / Shared as / Drivers for different versions of Windows / Additional Drivers Copies / Collate / Orientation / Offset / Staple / Combination / Front Cover / Back Cover / Cover Tray / Paper Size / Media Type / Paper Source / Duplex / Output Tray [Security] tab [Graphics] tab Name / Permissions / Advanced Solid Black and White / Patterned Grays / Diffused Grays / Negative 2-12 Print Controller INSTRUCTION MANUAL Chapter 2 Setup [Setup] tab [FAX] tab Available options / Installed options / Installed memory Mode Selection / Fax Mode Setup / Enter Recipient / Phonebook / Recipients [Options] tab [About] tab Automatic / Bitmap soft fonts / Rasters Print Controller INSTRUCTION MANUAL 2-13 Chapter 3 Printer Driver I Contents of this Chapter

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. 3-7 I Description of Printer Driver Functions

.... 3-11 Print Controller INSTRUCTION MANUAL 3-1 Chapter 3 Printer Driver I Contents of this Chapter This chapter fully describes the functions of the Printer Driver installed in computers connected to the printing system. The Printer Driver functions are presented in two parts, listed first, then described individually. Refer to "Chapter 2 Setup" (page 2-1) for installation of the printer driver. 3-2 Print Controller INSTRUCTION MANUAL Chapter 3 Printer Driver I Working Environment G Compliant OS The Printer Driver can be used on the following OS. Windows 95/98/Me Windows NT4.0/2000 Refer to "Chapter 2 Setup" (page 2-1) for installation of the Printer Driver.

I Property of Printer Driver You have two ways of changing the settings of the printer driver. One way is by selecting [Control Panel]-[Printers]-[Properties] of [Konica IP-421 PCL](or [Document Defaults]-[Printing Preferences]). The other is by making settings within applications for each printing session. The settings made in the first way are effective on all printouts, whatever the application. The settings made in the second way are effective only when the application for which they have been made is running.

When launching the application again, the settings made by going through [Control Panel]-[Printers] are applied. The display windows shown in this manual are those available with Windows95/98. They vary according to the OS in use. Also among the tabs, there are some that are not displayed depending on settings. You can make the settings of the printer from applications with the exception of the settings on [General], [Details], [Color management] and [Sharing] tabs in the [Konica IP-421 PCL] properties.

For guidance in setting the printer from applications, refer to "Chapter 2 Setup"(page 2-1). For guidance in setting the printer from the copier control panel, refer to "Chapter 4 Control Panel Setup" (page 4-1).



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Print Controller INSTRUCTION MANUAL 3-3 Chapter 3 Printer Driver Windows95/98/Me 1. Click [Start]-[Settings]-[Printers], right-click the [KONICA IP-421 PCL] icon, and then click [Properties]. The following tabs will appear: [General], [Details], [Color Management], [Sharing], [Paper], [Graphics], [Options], [Watermarks], [Overlay], [FAX], [Setup] and [About]. [OK] When the [OK] button is clicked, all tab settings are saved and the properties screen is closed. [Cancel] When the [Cancel] button is clicked, all tab settings are canceled and the properties screen is closed. [Apply] When the [Apply] button is clicked, the present tab settings are saved. This button is used when settings continue to be performed by using other tabs, and the present tab settings are registered before using other tabs. [Help] When the [Help] button is clicked, Help for each tab will appear.

3-4 Print Controller INSTRUCTION MANUAL Chapter 3 Printer Driver Windows NT4.0/2000 1. Click [Start]-[Settings]-[Printers], right-click the [KONICA IP-421 PCL] icon, and then click [Properties]. The following tabs will appear, then settings of the printer ports and options should be made: [General], [Ports], [Scheduling], [Sharing], [Security], [Paper], [Graphics], [Options], [FAX], [Setup], and [About]. 2. Click [Start]-[Settings]-[Printers], right-click the [KONICA IP-421 PCL] icon, and then click [Document Defaults] or [Printing Preferences]. The following tabs will appear: [Paper], [Graphics], [Options], and [About]. [OK] When the [OK] button is clicked, all tab settings are saved and the properties screen is closed. [Cancel] When the [Cancel] button is clicked, all tab settings are canceled and the properties screen is closed. [Apply] When the [Apply] button is clicked, the present tab settings are saved.

This button is used when settings continue to be performed by using other tabs, and the present tab settings are registered before using other tabs. [Help] When the [Help] button is clicked, Help for each tab will appear. Print Controller INSTRUCTION MANUAL 3-5 Chapter 3 Printer Driver Setting details of each tab [General] tab Enables a print test of a printer. [Details] tab Performs settings related to ports, drivers, timeout and spooling. [Sharing] tab Performs share settings of a printer.

[Paper] tab Performs settings related to Copies, Collate, Orientation, Paper Size, Paper Source, Duplex and Output Tray. [Graphics] tab Performs settings related to Halftoning, Brightness, Contrast and Negative. [Options] tab Performs settings related to Layout and True Type options. [Watermarks] tab For watermark settings. [Overlay] tab Performs settings related to Symbol, Shade, Size, and Position.

[Setup] tab Performs settings related to optional accessories and installed memory. [About] tab This tab is used to show version information of the Printer Driver. 3-6 Print Controller INSTRUCTION MANUAL Chapter 3 Printer Driver I Printer Driver Function List The following list summarizes functions

(Setting items) which can be set by using the Printer Driver of the printing system. Refer to "Description of Printer Driver Functions" (page 3-11) for setting items of each function. In addition, refer to "Chapter 2 Setup" (page 2-1) to learn how to perform printer settings from applications, and "Chapter 4 Control Panel Setup" (page 4-1) to learn how to perform printer settings from the LCD panel. Classification Details tab Setting Items Time out settings Set Value Not selected Transmission retry Spool MS-DOS print job. Check port state before printing. COM1 / COM2 / FILE / LPT1 Description This function is used to set timeout of the parallel port and resending time. This function is used to set whether the MS-DOS print job is spooled or not and whether the status of the LPTx: port is checked before printing or not. This function is used to set the printing port.

This function is used to select the printer driver. This function is used to set the device and path of the printer at the time of printing by way of a network and whether reconnection is performed at the time of log-on. This function is used to clear the network paths of unnecessary network printers. This function is used to add a port. This function is used to delete an unnecessary port. This function is used to add a driver. Port Settings Print to the following port Print using the following driver Capture Printer Port Device Path Reconnect at logon End Capture Network Other Spool print jobs so program finishes printing faster. Print directly to the printer. Enable bi-directional support for this printer. Disable bi-directional support for this printer.

Add Port Delete Port New Driver Spool Settings This function is used to set spooling and bi-directional communication functions. Print Controller INSTRUCTION MANUAL 3-7 Chapter 3 Printer Driver Classification Paper tab Setting Items Copies Set Value 1 to 999 Description This function is used to specify the number of copies to be printed. This function is used to specify how to output multiple pages. This function is used to specify orientation. The paper sizes you can set differ depending on specifications in the country and trays.

Refer to the operating manual of the copier for details. This function is used to specify the paper type to be printed from the Bypass tray. This function is used to specify the paper tray. This function is used to set the password print (confidential output). Press this button to open [Password Print Settings] dialog.

Enter your user ID and password. This function is used to set the mode of Duplex printing. This function is used to specify the output tray. This function is used to specify offset mode. This function is used to select the staple position. This function is used to arrange page layout. This function is used when front covers are used. This function is used when back covers are used. This function is used to select a Paper Source used for front covers and back covers. This function is used to select the method of the image processing for halftone portion.

This function is used to make an adjustment on halftoning. This function is used to make an adjustment on halftoning. Collate On or Off Orientation Portrait or Landscape A3, A4, A5, B4, B5, B6, F4, 8K, 16K, 11" x 17", 8.5" x 14", 8.5" x 11", 5.5" x 8.5" Plain paper, OHP(Transparency), OHP-Interleave(Blank), OHP-Interleave(Print) Auto select, Tray 1 to 4 or Bypass tray - Paper size Media type Paper Source Password Print Settings - Duplex None, Flip on long edge Flip on short edge Default, Tray 1 to 4 Output Tray Offset On or Off None, Single Left Double Top, Double Left None, Booklet Staple Combination

Front Cover None, Printed or Blank Back Cover None, Printed or Blank None, Tray 1, Tray 2, Tray 3, Tray 4 or Bypass tray Solid Black and White, Patterned Grays or Diffused Grays -100 to 100 Cover Tray Graphics tab Halftoning Brightness Contrast -100 to 100 3-8 Print Controller INSTRUCTION MANUAL Chapter 3 Printer Driver Classification Setting Items Negative Set Value On or Off None, CONFIDENTIAL, COPY, DRAFT, FILE COPY, FINAL, PROOF, TOP SECRET All but first page, All page, First page only, No Watermark Description This function is used to print image with reverse tone.



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Watermarks tab Text The watermark selected in the [Text] list will be printed. Page From the list the user can select pages to be watermarked. This function is used to specify the font of the selected watermark.

Font Automatically User defined (X: 0 to 100) (Y: 0 to 100) Position This function is used to specify the position of the selected watermark. Position - Angle 0 to 360 This function is used to specify the control the "lean" angle of the selected watermark. This function is used to specify the type of adjustment. This function is used to print more than one page of a document on one sheet of paper. Prints the document image reduced or enlarged to the specified value. This function is used to specify how to output TrueType fonts. This function is used to specify an overlay form printed on paper. This function is used to specify the page on which a selected overlay form is printed. This function is used to register Bitmap image for overlay. This function is used to specify color for a bitmap image.

Only Black is selectable. This function is used to specify Darkness of bitmap image for overlay. This function is used to specify the magnification rate of overlay image in percentage. This function is used to specify the position of overlay image. Adjustment Move Rotate Options tab Pages per sheet 1, 2, 4, 6, 9, 16 Scaling 10-400% Outline soft fonts Bitmap soft fonts Rasters All but first page, All pages, First page only, No overlay - TrueType option Overlay tab File Page Select Bitmap Color Black Darkness 0 to 100 Automatically User defined (10 to 100) Automatically User defined (0 to 100) Size Position Print Controller INSTRUCTION MANUAL 3-9 Chapter 3 Printer Driver Classification Setting Items Mode Selection Set Value FAX / Printer 200 dpi / 400 dpi - Description Specify where to output the file. Specify a resolution. Enter the name of the recipient. Enter the fax number of the recipient Switch the ECM mode on or off, as required. Switch the International Tx on or off, as required. Switch the V.

34 mode on or off, as required. Set this setting when you need to add data to, or delete data from Phonebook or to add a registered data to the Recipient field. A list of recipients the document will be sent to is displayed. FAX tab Resolution Name Fax No. Error Correction Mode Intl Transmission - V.34 Mode - Phonebook - Recipients -. Base DB-209/210 (2 Trays), Base DB-409/410 (1 Tray), Fax Option Finisher w/2Trays, Finisher w/3Trays, Finisher w/4Trays, Inner Tray w/2 Trays 32 MB / 64 MB / 96 MB / 160MB - Setup tab Available options This function is used to specify the optional device installed on the copier. Installed memory This function is used to specify the installed memory. This function is used to show version information of the Printer Driver. This function is used to return the settings to default settings.

About tab - Others Restore Defaults - For tabs that are not mentioned on this page, refer to the Windows instruction manual. For the [PCFax] tab, refer to "Chapter 7 PC-FAX" (page 7-1). 3-10 Print Controller INSTRUCTION MANUAL Chapter 3 Printer Driver I Description of Printer Driver Functions Functions (setting items) which can be set with the Printer Driver are summarized in the tab order. These settings can be set by using [Start]-[Settings]-[Printers]- [Konica IP-421 PCL] property. The tabs in this section are those in the [Konica IP-421 PCL] property.

[General] tab Comment You can input a comment in this column. Separator page This function is used to specify the separator page. [Details] tab Print to the following port Select the printing port of the print controller from the list shown by clicking the [M] button beside [Details] tab-[Print to the following port] box. Select a printing port from [FILE], [LPT1] and so on. Print using the following driver Select the driver used for printing from the list shown by clicking the [M] button beside [Details] tab-[Print using the following driver] box.

When a driver is changed, settings of presently shown properties are saved and the properties of the newly selected driver will appear. Add Port When the port you would like to connect to is not shown on the list shown by clicking the [M] button beside the [Details] tab-[Print to the following port], click [Details] tab-[Add Port] button to add the port. When the [Add Port] button is clicked, the [Add Port] dialog is shown. The following settings are performed on the [Add Port] dialog; When [Network] is selected to set a path to a network printer, you can add a network printer to a port. When [Others] is selected to select the type of a port to be added, you can add the port selected from a list. Delete Port When a port is specified on the [Delete Port] dialog shown by clicking [Details] tab-[Delete Port] button, and the [OK] button is clicked, you can delete the specified port. Print Controller INSTRUCTION MANUAL 3-11 Chapter 3 Printer Driver New Driver Click the [Details] tab, then click the [M] button next to the field [Print using the following driver] to display the list of available print drivers. To use a print driver not listed, click the [New Driver] button. When a driver is changed, the settings of presently shown properties are saved and the properties of a newly selected driver is shown. Capture Printer Port When the device name and path are specified on the [Capture Printer Port] dialog shown by clicking [Details] tab-[Capture Printer Port] button, a network printer can be allocated as a virtual printer port.

In addition, when [Reconnect at Logon] of the [Capture Printer Port] dialog is selected, a virtual printer port is automatically reconnected at log-on. End Capture When the virtual printer port is specified on the [End Capture] dialog shown by clicking [Details] tab-[End Capture] button, you can delete a network printer allocated as a virtual printer port. Timeout settings By using [Details] tab-[Timeout Settings], the timeout value is set. Not selected The [Not Selected] box indicates the number it will take in seconds for a printer to become available for printing, from the time the computer starts outputting print data. If the waiting time exceeds the value set, a printer error is shown and the job is automatically cancelled. Transmission retry The [Transmission retry] box is used to set the amount of time in seconds until a printer is to become available for printing and allow a computer that failed to output once to output the print data again. If the waiting time exceeds the set value, a printer error is shown and the job is automatically cancelled. Spool settings Set the method of spooling (temporary saving) the print data when it is sent to the printer on the [Spool Settings] dialog shown by clicking [Details] tab-[Spool Settings] button. Spool print job so program finishes printing faster When [Spool print jobs so program finishes printing faster] is selected, Spool is set to on.



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You may select either [Start printing after last page is spooled] or [Start printing after first page is spooled] as a method of spooling.

When [Start printing after last page is spooled] is selected, it is possible to edit other documents and start up other applications while printing, since print data is sent to a printer after the printing process of applications has been completed. When [Start printing after first page is spooled] is selected, print data is spooled page by page and sent to a printer. Although this takes more time for an application to be released from the printing process, this method is suitable in the event that free space for spooling in your hard disk is small. 3-12 Print Controller INSTRUCTION MANUAL Chapter 3 Printer Driver Spool data format Select [Spool data format] either from EMF or RAW. Print directly to the printer When [Print directly to the printer] is selected, a print job is sent directly to the printer without spooling it.

Port Settings Click [Detail] tab-[Port Settings] button to perform settings of the port selected on the [Print to the following port] box. When the "LPT" is selected, the [Configure LPT Port] dialog is shown by clicking the [Port Settings] button. The following settings are performed on the [Configure LPT Port] dialog. When [Spool MS-DOS Print Job] is selected, a MS-DOS print job is spooled. When [Check port state before printing] is selected, the port status is checked before printing.

[Sharing] tab Shared As By using the [Sharing] tab, you can share a printer. Refer to your Windows manual for printer sharing. [Paper] tab Copies Click the [L] or [M] button or directly enter the number of copies from the keyboard. Default is 1. Collate This function is used to specify how to output multiple pages.

Default is ON. It is recommended that you select [Collate] ON on the [Paper] tab rather than select it for each application. collate on collate off Print Controller INSTRUCTION MANUAL 3-13 Chapter 3 Printer Driver Orientation This function is used to specify orientation. Default is Portrait. Paper size Select the paper size from the list shown by clicking the [M] button.

Default is [A4]. The paper size you can select is as follows: Paper Sizes to Be Selected A3 A4 A5 B4 B5 B6 F4 8K 16K 11" x 17" 8.5" x 14" 8.5" x 11" 5.5" x 8.5" Refer to your Copier Instruction Manual for paper sizes that can be used in each tray. Media Type Select the paper type from the list shown by clicking the [M] button. Default is [Plain paper]. The settings you can select are as follows: [Plain paper], [OHP(Transparency)], [OHP-Interleave(Blank)], [OHP-Interleave(Print)] Paper Source Select the paper source from the list shown by clicking the [M] button. Default is [Auto Select].

When [Auto Select] is selected, a paper tray with paper which a user specified from an application by using [Konica IP-421 PCL on (Port name) : Properties] is automatically selected. 3-14 Print Controller INSTRUCTION MANUAL Chapter 3 Printer Driver Duplex Select the Duplex setting from the list shown by clicking the [M] button. Default is [None]. The settings you can select is as follows: [None], [Flip on long edge], [Flip on short edge] [Flip on long edge] Prints paper so that heads of both sides become upward [Flip on short edge] Prints paper so that the head of the front becomes the foot of the back. Output Tray Select an output tray from the list shown by clicking the [M] button.

When the Finisher or Inner Tray option is not selected in [Setup] tab, or when the Finisher or Inner Tray is not installed, any setting other than [Default] and Tray 1 is ineffective. Features Offset [ON] offsets each copied set upon exit. How to offset papers differs depending on whether the Finisher is installed or not. Example) One set Three sets Two sets One set Two sets Three sets One set Two sets Three sets None Without FS-107 With FS-107 · · When the FS-107 is not installed, every set of copies is output in a direction at right angles to the previous set of copies. When the FS-107 is installed, every set of copies is offset upon exit.

When the FS-107 is not installed, make sure to set the papers same as printing paper size to both portrait tray and landscape tray. (Example: A4- and A4R-size papers or B5- and B5R-size papers) Print Controller INSTRUCTION MANUAL 3-15 Chapter 3 Printer Driver To select offset click [Features - Offset] from the list shown by using the [M] button. Default is [Off]. Staple To select the Staple position click [Features - Staple] from the list shown by using the [M] button. The settings you can select are as follows: [None], [Single-Left], [Double Top], [Double Left]. Default is [None]. However, staple setting cannot be made in the following cases: · · · [Finisher] is not selected. OHP (Transparency), OHP-Interleave (Blank) or OHP-Interleave (Print) are selected as the Media Type. Such a combination of settings as follows is made: (Example: Double Left for A3-size paper (portrait) For details on how to position the Staple, refer to the Instruction Manual of the copier. Stapling is performed as shown for the following orientations: 2-point stapling not available with papers of B5 size and under.

Single Left (portrait) Double Top (portrait) Double Left (portrait) Single Left (Landscape) Double Top (Landscape) Unavailable with B5-size paper Double Left (Landscape) 3-16 Print Controller INSTRUCTION MANUAL Chapter 3 Printer Driver Combination To select Combination click [Features - Combination] from the list shown by using the [M] button. The settings you can select are as follows: [None], [Booklet] Default is [None]. Booklet Front Cover To select Front Cover click [Features - Front Cover] from the list shown by using the [M] button. The settings you can select are as follows: [None], [Printed], [Blank] · · [None] When [Blank] is selected, nothing is printed on the Front Cover. When [Printed] is selected, the first page is printed on the front cover. [Printed] [Blank] Default is [None]. The tray for covers is selected by using [Features - Cover Tray]. The front cover settings cannot be made in the following cases: · · · [Booklet] is set up. Options other than [Plain paper] are selected as Media Type. The Sort setting is set to OFF.

Print Controller INSTRUCTION MANUAL 3-17 Chapter 3 Printer Driver Back Cover To select Back Cover click [Features - Back Cover] from the list shown by using the [M] button. The settings you can select are as follows: [None], [Printed], [Blank] · · [None] When [Blank] is selected, nothing is printed on the Back Cover. When [Printed] is selected, the last page is printed on the back cover. [Printed] [Blank] Default is [None]. The tray for covers is selected by using [Features - Cover Tray].

Cover Tray To select Cover Tray click [Features - Cover Tray] from the list shown by using the [M] button.



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The settings you can select are as follows: [Bypass tray], [Tray 1], [Tray 2], [Tray 3], [Tray 4] Default is [Bypass tray]. 3-18 Print Controller INSTRUCTION MANUAL Chapter 3 Printer Driver Password Print When [Password Print] is checked, you can use the password print function to print confidential documentation. @@Default is [Off]. @@Enter your user ID in the [User ID] text box.

You can select any 5-digit number for the User ID. Enter your password in the [Password] text box. @@@@Default is 0. Negative [Negative] prints image with reverse tone. @@@@If you want to create new text, click the [New] button. @@Page Select the pages on which to print watermarks. @@@@Click the [L] or [M] button or directly enter the page number from the keyboard. Default for the number of copies is 1. 3-22 Print Controller INSTRUCTION MANUAL Chapter 3 Printer Driver Separation Define how far apart you want multiple watermarks to be on the page. If you have set the count to one, this will be unavailable.

Font Name You can select only one font per watermark from the list shown by clicking the [M] button. When you change the font, the preview window will refresh itself by showing the effect of the new font on the existing text sample displayed there. The default font name is [Arial]. Color Select the color of watermarks. Select [Black], [Dark Gray], [Light Gray], or [White] from the color palette shown, by clicking the [M] button. Darkness You can control the "density" of the watermark text with this slider. If you slide this to the right, the "density" of the watermark text will be more dense. If you slide this to the left, it will be less dense. Bold & Italic When [Bold] is selected, bold formatting will be applied to your selected watermark text. When [Italic] is selected, italic formatting will be applied to your selected watermark text.

When both of these are selected, bold and italic formatting will be applied. Size Select a point size for the font to be used in your watermark by clicking the [L] or [M] button or by directly entering the size from the keyboard. Position Control the position of the watermark on the page manually or leave it at the automatic setting and let the driver position it for you. If you select [User defined], the controls below this option will be available and you can define X axis position (left and right) and Y axis position (up and down) of the watermark on the page by clicking the [L] or [M] button or by directly entering the values from the keyboard (0-100). The value of [X] or [Y] represents the placement of origin (beginning) of the watermark in a percentage of the total page width.

In case of [X], a value of 20% means the watermark begins 20% of the way across the page from left to right. In case of [Y], a value of 20% means the watermark begins 20% of the way down the page from top to bottom. Angle Control the "lean" angle of the watermark by sliding this control back and forth or by typing a number in the text value box from 0 degrees to 360 degrees (a full circle all the way around). Print Controller INSTRUCTION MANUAL 3-23 Chapter 3 Printer Driver Adjustment type Select [Move] or [Rotate] by clicking the radio button. When [Move] is selected, you can move the watermark as you position it manually by clicking on the page sample and "dragging" the mark around.

When [Rotate] is selected, you can rotate the watermark as you position it manually by clicking on the page sample and "dragging" the mark around. Show layout / Show single page When [Show layout] button is clicked, you can preview how your [pages per sheet] options selected in the [Options] tab will look with the current watermark settings. The [Show layout] button will change to the [Show single page] button by clicking it. When the [Show single page] button is clicked, you can preview how the single page will look with the current watermark settings. The [Show single page] button will change to the [Show layout] button by clicking it. New When the [New] button is clicked, [Custom watermark n] appears in the [Text] box. Create the new watermark text, to replace the current text by typing the new text and pressing the [Enter] key. When the [Enter] key is pressed, the [Text Change & Image Request] screen will appear. Click the [Yes] button, [No] button, or [Cancel] button. When you click the [Yes] button, your newly created watermark text will appear in the available-for-use list when you click the [M] button beside the [Text] box.

Delete Click this to delete the current watermark. You cannot undo this action, so be sure the currently-displayed watermark is the one you wish to delete. Restore Defaults When the [Restore Defaults] button is clicked, the [Watermark - Restore Defaults Request] screen will appear. Click [Yes] to restore the last saved settings for the displayed watermark, or click [No] to reset the entire watermark list to the factory default settings. 3-24 Print Controller INSTRUCTION MANUAL Chapter 3 Printer Driver [Overlay] tab Symbol File The bitmap files used for the overlay will appear in the list shown by clicking the [M] button. If you have not selected any file, the list will display [-None-]. Select a file from this list or click the [Select Bitmap] button to navigate through your system's hard disk to locate a bitmap file to use. Default is [None]. Page You can choose a page on which to place the overlay design. To select the Page setting of Symbol File click [Symbol - Page] from the list shown by using the [M] button.

The settings you can select are as follows: [All but first page], [All pages], [First page only], [No overlay] Default is [All pages]. Select Bitmap When you click the [Select Bitmap] button, the [Open overlay file] dialog box will appear. Select a suitable bitmap file for the overlay from your system's directories and click the [OK] button to load the bitmap file. Shade Color This function is used only for black and white (monochrome) bitmaps. Darkness You can define how "dark" or "solid" your overlay will be with the slider or numerical entry box.

A setting of 100% is a completely solid overlay, a setting of 50% provides equal overlay to background coverage, and lesser settings make the overlay more transparent. Size When [Automatically] is selected, a symbol you selected will be resized to 30% of the page size. When [User defined] is selected, you can set the overlay size on the page. Position You can control the position of the overlay on the page manually or leave it at the automatic setting and let the driver position it for you. If you select [User defined], you can define the X axis position (left and right) and Y axis position (up and down) of the overlay on the page by clicking the [L] or [M] button or by entering the values directly from the keyboard (0-100).

Print Controller INSTRUCTION MANUAL 3-25 Chapter 3 Printer Driver [FAX] tab Choose this tab when you intend to use the PC-FAX function.



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