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USER'S GUIDE

IP-011

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Manual abstract:

@@@Printed in Japan KONICA CORPORATION IP-011 Printer Controller i Introduction s Contents s s s s Contents

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IP-011 Printer Controller v Introduction q A part or all of this operating manual shall not be used or copied without permission. q Konica shall have no liability for any influences caused by using the 7020 series copier +IP-011 system and this manual. q Information written in this operating manual is subject to change without notice. q Konica Corp. shall have the copyright of this printer driver. q This printer driver shall not be copied except for the purpose of backup. q A part or all of this operating manual shall not be used or copied without permission. q Konica shall have no liability for any influences caused by using this printer driver and the operating manual. s About Supplied Items The following items are supplied to the IP-011 Printer Controller: · User Software CD (Including USER'S GUIDE (this manual)) · Release Note (The latest information and limits of the system and the user software are written.) vi IP-011 Printer Controller Introduction s About Positioning of This Manual This manual describes how to operate the Printer Controller Konica IP-011 when the Konica 7020 series copier is used as a printer by connecting it to computers or your network.

An optional network board (KN-304) is required so as to use the Konica 7020 series copier as a printer by connecting it to your network. Refer to the "7020 series operating manual" and the "KN-304 operating manual" which are attached to the Printer Engine (7020 series) on the printer side and the optional Network Board (KN-304) respectively for their operations. s About Composition of This Manual This manual is composed of the following five chapters and Appendix: Chapter 1: Outline Chapter 1 describes the Printer Controller' hardware and the outline of its functions, and briefly explains how to connect the parallel ports of computers to the Printer Controller and the Printer (7020 series). Chapter 2: Setup Chapter 2 describes how to install the user software which is supplied in the user software CD to the Windows*-compliant computers. Installing the user software enables printing from each application of the 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 to the Windows*-compliant computers. Chapter 4: Operation Panel Setup Chapter 4 describes the layout of the operation panel of the Printer (7020 series) and how to operate and set functions on the operation panel. Chapter 5: Status Monitor/Control Panel Chapter 5 describes the layout of the status monitor and

the control panel shown on the Windows-compliant computers and how to operate and set functions on the status monitor or the control panel. Appendix Appendix describes error messages and trouble-shootings inherent in the Printer Controller and product specifications and functions. IP-011 Printer Controller vii Introduction s System Requirements q Windows The following are required to print from the Windows*-compliant computers to the Printer Controller.*

· Computers on which Windows 95/98, WindowsNT 4.0 can run · CD-ROM drive (necessary to install the user software) In case of using Windows 95/98 · Microsoft Windows 95/98 · 32MB RAM or more In case of using Windows NT 4.0 · Microsoft Windows NT 4.0 and NT Service Pack 3 · 32MB RAM or more Parallel Port The following are required to print to the Printer Controller by way of the parallel port. · Windows-compliant computers · Minimum RAM capacity suitable for computers (Refer to the section of each operation system described above.



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) · IEEE 1284 parallel cable One end of the cable is required to have an amphenol 36 pin male connector (connected to the Printer Controller). viii IP-011 Printer Controller Introduction s Rules in This Manual · Notation of a name of each section in this manual It is written within [] (round brackets). (e.g. [Chapter 1: Outline])

(e.g. Click the [OK] button.) · Notation of cautions In this manual, important items to be paid attention to are written with marks. Each mark used in this manual has the following meaning. Precautions and limits at the time of operating hardware or software are written. Hints, advice, confirming items, etc. at the time of operating hardware or software are written. · Notation of sub-folders Sub-folders are written as "route level folder\sub folder \sub folder 2." For example, at the time of double-clicking the [Setup.

exe] icon in the [WIN_95] folder in the [PS_DRVVR] folder in the [INTALRS] folder of the User Software CD, it is written as e.g. Double-click the [Setup.exe] icon in the "\NTALRS\PS_DRVVR\WIN_95 " folder of the User Software CD. IP-011 Printer Controller ix Chapter 1 Outline Chapter 1 Outline s Contents of This Chapter .

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... 1-9 IP-011 Printer Controller 1-1 Chapter 1 Outline s Contents of This Chapter This chapter describes the outline of the Konica IP-011 Printer Controller.

For the Copier, Konica 7020 series to which the Konica IP-011 Printer Controller is attached, refer to the operating manual of the Copier.

1-2 IP-011 Printer Controller Chapter 1 Outline s Outline of the Printer Controller q IP-011 and Printer Engine The Konica IP-011 is the Printer Controller (IP-011) which is used to connect the Copier, Konica 7020 series (Konica 7020 series) to computers or a network and to use the Konica 7020 series as a printer from applications on Windows 95/98 or Windows NT (In order to connect to a network, the optional Konica KN-304 network board is required.).

When the command for printing is executed from applications on Windows 95/98 or Windows NT, print data is sent to the IP-011 by way of a parallel cable (IEEE 1284) or a network. Then, the IP011 rasterizes the print data to image data, which is sent to the Konica 7020 series Printer Engine by way of the PCI bus. The IP-011 can receive the command for printing from applications even while the Printer Engine is printing the previous print jobs or receiving data.

The 7020+IP-011 system can continuously print A4-size paper at the print speed of 20 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 In case of using as a networked printer *The

Konica KN-304 is required. In case of using as a local printer E-RDH (Electronic Recirculating Document Hander) The E-RDH is a system which temporarily saves print data in the memory of the Konica 7020 series to perform printing in accordance with the selected option. In order to print from the IP-011, the E-RDH of the 7020 series is used.

The E-RDH memory of the Konica 7020 is 32 MB (standard) and can be extended to 288 MB at the maximum. In the IP-011, 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. Copy Mode and Printer Mode The operation panel of the Konica 7020 series can be used either in the copy mode or the printer mode. Even while the Konica 7020 series is printing or copying, the IP-011 can receive the next job, and while the IP-011 is receiving a print job, you can execute copying. IP-011 Printer Controller 1-3 Chapter 1 Outline q IP-011 Hardware Configuration Basic Configuration Configuration of the IP-011 is as follows: Control board CPU: Power PC 401 GF Program memory: FLASH ROM System memory: 16MB SD-RAM Memory The IP-011 is equipped with 16 MB memory as standard and can be expanded to 80 MB at the maximum. q I/O Interface Parallel Centronics (IEEE1284)/ amphenol 36 pin male connector PCI Bus Card Edge Type/20MHz/32bit Ethernet (option) 100Base-T and 10Base-T The optional KN-304 card is used to connect to the Ethernet. The KN-304 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 KN-304 supports the following network protocol.

· IPX/SPX (NetWare) · LPD/LPR (TCP/IP) · Peer to peer (TCP/IP) Refer to the corresponding operating manual for connection to the KN-304. 1-4 IP-011 Printer Controller Chapter 1 Outline q Data Flow Computer Application Printer Tools Status Monitor Control Panel Browser HTML Printer Driver Spooler Interface IEEE1284 Network (TCP/IP,IPX/SPX) Network (TCP/IP,IPX/SPX) IEEE1284 NIC Printer Controller IEEE1284 Intermediate Language Interpreter Memory IP-011 Command for Printing Image Data Engine Status Printer Engine PCI Bus E-RDH Memory Engine IP-011 Printer Controller 1-5 Chapter 1 Outline q How to Use Memory Most of memory of the IP-011 is used for rasterizing images and a part of it is used for the system operation. In addition, E-RDH memory of the Konica 7020 series is used for print processing. The basic memory settings of the IP-011 is 16MB, which allows 1 bit mode (600 dpi) printing for all sizes of paper. The memory of the IP-011 can be expanded to 80MB at the maximum.

In addition, the E-RDH memory of the Konica 7020 can be expanded to 288MB at the maximum. The more memory the IP-011 has, the more pages are rasterized during waiting the printing of the previous job. When the A4-size paper is used, approximately 4,345 KB memory is used to print 1 bit data in 600dpi. Memory Upgrading In order to obtain the optimum printer performance, memory expansion is recommended. Contact service providers for details. 1-6 IP-011 Printer Controller Chapter 1 Outline q General View The IP-011 is mounted to the Konica 7020 series. The following is the general view. IP-011 Parallel Port The IP-011 is attached to the back side of the Konica 7020 series. Konica 7020 IP-011 Printer Controller 1-7 Chapter 1 Outline s About the Printer Tools q About the Printer Tools When you install printer driver with "setup.exe" held in the CD-ROM to the computer connected to the system of Konica 7020 series and IP-011, you can select simultaneous installation of the Printer Tools.



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The Printer Tools is the generic name of two programs, "Status Monitor" and "Control Panel." The Printer Tools enable you to monitor the printer status from computers and to perform printer settings. Refer to "5 Status Monitor and Control Panel" (5-1 page) for details of the Printer Tools. q About the Status Monitor If you set the Status Monitor to automatically start up at the time of installing the Printer Tools, when computers connected to the 7020 series + IP-011 system are started up, the Status Monitor which is a program to monitor the printer status automatically starts up. Refer to "2 Setup" (2-1 page) for installation of the printer driver.

Refer to "5 Status Monitor and Control Panel " (5-1 page) for details of the Status Monitor. q About the Control Panel When [Printer Setting] on the [setup] menu of the Status Monitor is selected by clicking it, the Control Panel which is a program to perform printer settings starts up. Refer to "5 Status Monitor and Control Panel" (5-1 page) for details of Control Panel. 1-8 IP-011 Printer Controller Chapter 1 Outline s About the Printer Driver q Compliant OS The printer driver can be used on the following OS. Windows 95 Windows 98 Windows NT 4.0 Windows 2000 (to be supported) Refer to "2 Setup" (2-1 page) for how to install the printer driver. Refer to "3 Printer Driver" (3-1 page) for detailed functions of the printer driver. IP-011 Printer Controller 1-9 Chapter 2 Setup s Contents of This Chapter ...

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..... 2-12 IP-011 IP-011 Printer Controller 2-1 Chapter 2 Setup s Contents of This Chapter In order to use the 7020 series +IP-011 system, it is required to connect the 7020 series +IP-011 system to computers by way of the parallel port and to install the printer driver to the computers. This chapter describes how to install the printer driver and how to print from applications. Refer to "Chapter 1 Outline" (1-7 page) for the detailed method of connecting to the parallel port. Refer to "Chapter 3 Printer Driver" (3-1 page) for functions of the printer driver. 2-2 IP-011 Printer Controller Chapter 2 Setup s Installation of the Printer Driver q Before Installation Models and Environment of Computers The Printer Controller for Konica 7020 series, IP-011, can be used with most computers ranging from personal computers to workstations.

The IP-011 includes the printer driver for Windows95/98 and WindowsNT. The printer driver can be installed to any models of computers as long as Windows95/98 and WindowsNT have been installed to them. About Windows95/98 and WindowsNT Since on Windows95/98 and WindowsNT, the ways to manage the user interface and the printer are different respectively, the ways to install the printer driver and the ways to print with the printer vary. Therefore, the Konica IP-011 includes the printer driver for each Windows. Please keep the "User Software CD" on hand since it is required to install the printer driver.

In this manual, the ways to install the printer driver to each Windows are explained in "Installation to Windows95/98" and "Installation to WindowsNT4.0" separately. Please read the section of your Windows. q Files to be Installed When the printer driver is installed with the "User Software CD", the following files are installed to your computer. The files to be installed vary, depending on the ways to install.

Select an appropriate way. Installation to Windows95/98 Setup. exe (User Software CD) Installation to WindowsNT Setup. exe (User Software CD) Add Printer Plug & Play Add Printer Printer Driver for 95/98 Printer Driver for NT Konica IP-011 Printer Tools Konica IP-011 Help Konica IP-011 Readme Uninstaller IP-011 Printer Controller 2-3 Chapter 2 Setup q Installation to Windows95/98 Perform the following steps to install the Konica IP-011 Printer Driver to Windows 95/98. Please keep the "User Software CD" on hand since it is required to install the printer driver. Installation with the "User Software CD" Turn on the computer and start Windows. When any Windows applications are active, exit from them. Set the "User Software CD" on the CD-ROM drive. Double-click the [My Computer] icon of the desktop to open the [My Computer] window. Then, double-click the active CD icon (user software CD).

Opening from the start menu Right-click the [Start] button of the task bar to click [Explorer]. Then, you can select the active CD iron (user software CD) from [Address]. Double-click the [95 nozomi] folder to double-click [Setup.exe] in the folder. The [Konica IP-011 setup] screen will appear. Then, click the [Next] button. The [Konica IP-011 Software License Agreement] screen will appear. Then, click the [Yes] button. To use the Konica IP-011 Printer Driver, you are required to agree to the license. When you agree to the license, click the [Yes] button to proceed.

2-4 IP-011 Printer Controller Chapter 2 Setup The [Type of Connection] screen will appear. Then, select [Local] and click the [Next] button. When the Konica 7020 series Copier (IP-011) is directly connected to a computer to which the printer driver will be installed, select [Local]. In the case of selecting [Network] When personal computers or workstations are connected to the network and, you want to print by way of the network, connect to the optional network board (KN-304) and select [Network]. The screen to select a port will appear.

Then, select the port to which the Konica 7020 series Copier is connected and click the [Next] button. The [Printer Name] screen will appear. Then, specify the printer name and click the [Next] button. Default: [Konica IP-011] The [Select Destination Path] screen will appear. Enter the location where you would like to install the component and click the [Next] button.

Default: [C:\Program Files\Konica IP-011] The [Select Components] screen will appear. Select the components you would like to install and click the [Next] button. Choice is made initially to install only the printer driver. To install Printer Tools together, put the check mark of Printer Tools additionally. When you print by way of the network, printer tools can not be operated. Remove the check mark of the printer tools so as not to be installed. If you have selected to install Printer Tools, The [Status Monitor Option] will appear. When the [Yes] button is clicked, the status monitor of the printer will automatically start when starting PC. When the [No] button is clicked, it will not automatically start. The [Confirm Setup] screen will appear.



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Confirm the installed components and click the [Next] button. The [Setup Complete] screen will appear. Select the way to complete the setup and click the [Finish] button. The printer driver of the Konica IP-011 becomes available without restarting your computer. The Konica IP-011 Printer Tools become available after restarting your computer. IP-011 Printer Controller 2-5 Chapter 2 Setup Installation by using [Add Printer] In this method, only the printer driver is installed. Turn on the computer and start Windows. When the Windows applications are active, exit from 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. 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.

Installation by Using the Plug & Play In this method, only the printer driver is installed. Connect the IP-011 to a computer with the computer turned off. Turn on the computer and start Windows Devices compliant with the Plug & Play are automatically detected, and [Add New Hardware Wizard] will appear. . Click the [Next] button.

The wizard to select the method of searching for the printer driver will appear. Select [Search for the best driver for your device] and click the [Next] button.

The wizard to select the location to search for the printer driver will appear. Set the "User Software CD" on the CD-ROM drive. Then, select [Specify a location] and click the [Browse] button. Click [95 nozomi] in the "User Software CD" and click the [OK] button. Click the [Next] button. Click the [Next] button. Specify your printer's name and click the [Next] button. Default: [Konica IP-011] The print test confirmation screen will appear.

Select whether you will perform the print test or not and click the [Finish] button. Select [Yes recommended] to perform the print test, while select [No] not to perform it. Click the [Finish] button. Necessary files will be copied from the "User Software CD" to finish the installation. 2-6 IP-011 Printer Controller Chapter 2 Setup q Installation to WindowsNT4.0 Only authorized system administrators or printer administrators are allowed to install the Konica IP-011 printer driver to WindowsNT4.0. Please keep the "User Software CD" on hand since it is required to install the printer driver. Printer Management on WindowsNT Since WindowsNT is an operating system made specially for the network operation, it is equipped with heavier security functions than other Windows. According to the security level (access right) of the user, the range of operations and settings of the installed printers allowed to the user is limited. The following figure shows the access right of the Windows NT compliant printers and its operation range. Access Right Operation Range No operations of printers are allowed. 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 a 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 setting Pause, restart, reprinting, and deletion of documents All of "Print" 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 No rights Printing Document Management Full control After installing the printer driver, set the appropriate access rights to printer users. Refer to the "System Guide" of WindowsNT for how to set access rights of the printer. IP-011 Printer Controller 2-7 Chapter 2 Setup Installation by Using the "User Software CD" Turn on the computer to start WindowsNT4.0. .

. Log on as an administrator (or a user entitled to install the Power User, etc.). Set the "User Software CD" on the CD-ROM drive. Double-click the [My Computer] icon of the desktop to open the [My Computer] window, and double-click the active CD icon (user software CD). Opening from the start menu. Right-click the [Start] button of the task bar to click [Explorer]. Then, you can select the CD icon (user software CD) from [All Folder]. Double-click the [NT nozomi] folder to double-click [Setup.exe] in the folder.

The [Konica IP-011 Setup] screen will appear. Then, click the [Next] button. The [Konica IP-011 Software License Agreement] screen will appear. Then, click the [Yes] button. To use the Konica IP-011 Printer Driver, you are required to agree to the license. When you agree to the license, click the [Yes] button to proceed. The [Type of Connection] screen will appear. Then, select [Local] and click the [Next] button. When the Konica 7020 series Copier (IP-011) is directly connected to a computer to which the printer driver is to be installed, select [Local]. In case of selecting [Network] When installing Konica IP-011 printer driver to win4.

0 that does not conduct print service, select [Network]. When the optional network board (KN-304) is used, refer to the user's manual of the KN-304 to select the appropriate port. 2-8 IP-011 Printer Controller Chapter 2 Setup The screen to select a port will appear. Then, select the port to which the Konica 7020 series Copier is connected and click the [Next] button. The [Printer Name] screen will appear.

Then, specify the printer name and click the [Next] button. Default: [Konica IP-011] The [Select Destination Path] screen will appear. Select the location where you would like to install the component and click the [Next] button. Default: [C:\Program Files\Konica IP-011] The [Select Components] screen will appear. Select the components you would like to install and click the [Next] button.

Choice is made initially to install only the printer driver. To install Printer Tools together, put the check mark of Printer Tools additionally. When you print by way of the network, printer tools can not be operated. Remove the check mark of the printer tools so as not to be installed. If you have selected to install Printer Tools, The [Status Monitor Option] will appear. When the [Yes] button is clicked, the status monitor of the printer will automatically start when starting PC. When the [No] button is clicked, it will not automatically start. The [Confirm Setup] screen will appear. Confirm the installed components and click the [Next] button. The [Setup complete] screen will appear.

Select the way to complete the setup and click the [Finish] button.



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Installation by Using [Add Printer] In this method, only the printer driver is installed. Turn on the computer and start WindowsNT4.0. . . 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] You can open the [Printer] window by double-clicking the [Printers] folder after double-clicking the [My Computer] icon of the desktop. 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.

IP-011 Printer Controller 2-9 Chapter 2 Setup q Uninstallation of the Printer Driver When any Windows applications are active, quit all of them. . Click the [Start] button of the task bar. Select [Settings] of the Start menu and click the [Control Panel] of the sub menu. The [Control Panel] window will open.

Opening from [My Computer] You can open the [Control Panel] window by double-clicking the [Control Panel] folder after double clicking the [My Computer] icon of the desktop. Uninstalling by Using the Uninstaller You can also delete the printer driver by clicking the [Start] button of the task bar to select [Program] of the Start menu and then, selecting [Konica IP-011] to click [Uninstaller]. After clicking [Uninstaller], go to the Step 6. . Double-click the [Add/Remove Programs] icon of the [Control Panel] window. The [Add/Remove Programs Properties] dialog box will appear. Click [Konica IP-011] in the [Install/Uninstall] list and click the [Add/Remove...] button.

Click the [Yes] button. Click the [OK] button. The screen to confirm unistallation will appear. When the [OK] button is displayed, click the [OK] button. The printer driver will be uninstalled by following the above steps. 2-10 IP-011 Printer Controller Chapter 2 Setup s Test Print You can check whether the printer driver functions properly by performing a test print after the printer driver has been installed. 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] You can open the [Printers] window by double-clicking the [Printers] folder after double clicking the [My Computer] icon of the desktop.

. Right-click [Konica IP-011] and click [Properties]. [Konica IP-011 Properties] will appear. . Select [General] of [Konica IP-011 Properties] and click the [Print Test Page] button.

A test print will start and a screen to confirm print end will appear. Click the [Yes] button. A test print will end. IP-011 Printer Controller 2-11 Chapter 2 Setup s Print from Applications q Execution of Printing Click the [File] menu of each application and click [Print]. .

Check that [Konica IP-011] is shown on [Printer Name] and click [OK]. When [Konica IP-011] 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 "Print Settings" (2-12 page) for print settings of the printer driver. q Print Settings Perform various settings at the time of printing on the printer driver setup screen. Displaying the Setup Screen Click the [File] menu of each application and click [Print]. . Check that [Konica IP-011] is shown on [Printer Name] and click [Properties]. When [Konica IP-011] is not shown, select it from the list box. [Konica IP-011 Printer Controller Driver Properties] will appear.

2-12 IP-011 Printer Controller Chapter 2 Setup Contents of Settings Details of each setting are described as follows; Items and their setting ranges shown on the screen and their descriptions are explained in detail. The underlined setting ranges indicate the default settings. [Setup] tab [Copies]: 1 to 999 Specifies the number of copies of the print job. [Orientation]: Portrait and Landscape Specified the print orientation. [Paper]-[Original Paper] Specified the original size set on the application. For Europe/Others : A3R, A4, A4R, A5R, B4R, B5, B5R, B6R, 8K, 16K, 16KR, F4, Ledger, Legal, Statement, Letter and Letter R For US: [Paper]-[Paper size] Specifies the paper size used for printing. For Europe/Others : A3R, A4, A4R, A5R, B4R, B5, B5R, B6R, 8K, 16K, 16KR, F4, Ledger, Legal, Statement, Letter and Letter R For US: A3, A4R, A4, A5R, B5R, B5, Legal, Letter, Letter R and Statement A3, A4R, A4, A5R, B5R, B5, Legal, Letter, Letter R and Statement [Paper]-[Zoom]: 25% to 400% (default value: 100%) Specifies the expansion and reduction rates at the time of printing. [Paper]-[Paper Tray]: Auto, Tray 1, Tray 2, Tray 3, Tray 4 and Bypass tray Specifies the paper tray which holds the paper to be used for printing. When [Auto] is specified, papers are automatically fed from the tray that has a appropriate paper size specified by a user. When [Bypass tray] is specified, you can feed paper from the bypass tray.

In order to specify [Tray 3] or [Tray 4], the DB (optional Paper Tray) must be attached to the copier. IP-011 Printer Controller 2-13 Chapter 2 Setup [Image]-[Layout]: 1-Up, 2-Up, 4-Up, 8-Up and 9-Up Specifies how many pages of documents are gathered on one piece of paper. The default value, [1-Up(Default)], indicates that an one-page document is printed on one piece of paper. [Image]-[Print Page Borders]: Default value (not printing: without check mark) Specifies whether borders are printed or not between documents when they are gathered on one piece of paper. [Image]-[Staple]: off, 1-Left, 1-Right, 2-Left, 2-Top and 2-Right Specifies the number of staples to be used and their positions.

When [off] is selected, documents are not stapled. The staple function is supported when the finisher is attached. [Image]-[Duplex]: 1-Sided, 2-Sided Long Edge Binding, 2-Sided Short Edge Binding and Booklet [1- Sided] prints only one side. [2- Sided Long Edge Binding] prints both sides so that heads of both sides become upward while [2-Sided Short Edge Binding] prints both sides so that the head of one side becomes the bottom of the other side. [Booklet] prints in consideration of making booklets.

[Output]-[Output Tray]: Printer's default, Tray 1, Tray 2, Tray 3 and Tray 4 Specifies the way to output. When [Printer's default] is selected, the output tray specified on [Paper] of the control panel will be used for output. In order to specify [Tray 2], [Tray 3] and [Tray 4], it is required that a finisher is attached to the Copier and that the [Finisher] option must be selected. [Output]-[Alternate]: On and Off This setting is available only when the finisher is not attached. The output direction of paper is changed every set of copy. [Output]-[Sorting]: Sort and Group Specifies how to output the multiple pages and multiple copy jobs.



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[Engine Display]: Shows the external view of the copier system. [About] button: Shows information on the version of the printer driver. [Default] button: Returns to the default value. 2-14 IP-011 Printer Controller Chapter 2 Setup [Paper] tab [Front Cover]: On, Off, Blank and Printed Specifies whether a front cover is attached or not.

Also specifies whether the front cover is blank or printed when it is attached. [Back Cover]: On, Off, Blank and Printed Specifies whether a back cover is attached or not. Also specifies whether the back cover is blank or printed when it is attached. [Front/Back Cover]-[Paper Tray]: Tray 1, Tray 2, Tray 3, Tray 4 and Bypass Tray Specifies the output tray where paper for a front cover or a back cover is set. [Front/Back Cover]-[Paper Type]: Plain Specifies the paper type of a front cover or a back cover. [Paper Type]: Plain, OHT Film, OHT Interleave and OHT Interleave Printed Specifies the paper type of other paper than a front cover or a back cover. IP-011 Printer Controller 2-15 Chapter 2 Setup [Print Quality] tab [Smoothing]: Off, Type 1, Type 2 and Type 3 Specifies the smoothing type. This function is unavailable for US. Type 1: processes suitable for oblique lines of general characters and pictures Type 2: processes suitable for curves of general characters Type 3: processes suitable for curves of decorated characters and fine characters [Page Protection]: Auto and On Specifies how to protect page data. The page protection is a function to secure memories required to print complicated characters or image documents in advance, and completely create one-page print data before actual printing starts.

This function secures printing of each page and avoids the memory overrun error. Normally, set this setting to [Auto]. If any errors occur, try to set it to [On]. Setting it to [On] decreases the printing speed and requires more memories, but may reduce printing errors. [Option] tab [Finisher]: None, 2 Trays, 3 Trays and 4 Trays Specifies the finisher of the copier option.

[Option Tray]: None, DB-209(2 Trays) and DB-409(1 Tray) Specifies the Option Tray of the copier option. 2-16 IP-011 Printer Controller Chapter 2 Setup [Watermark] tab [Watermark String]: None, CONFIDENTIAL, COPY, DRAFT, FILE COPY, FINAL, PROOF, TOP SECRET Specifies the watermark. [First Page Only] Prints the watermark on the first page only. [Edit] Edits the watermark. (Refer to "[Edit/Add Watermark(Sub-Menu)] dialog box" on 2-18 page.) [Add] Adds new watermarks. (Refer to "[Edit/Add Watermark(Sub-Menu)] dialog box" on 2-18 page.) You can add up to 50 watermarks. [Delete] Deletes watermarks. IP-011 Printer Controller 2-17 Chapter 2 Setup [Edit/Add Watermark(Sub-Menu)] dialog box [Edit Text] Specifies [Text], [Font], [Size] and [Style]. [Darkness] Specifies the darkness of the edit text. [Angle]: -90 degrees to +90 degrees Specifies the angle of the edit text. [Position]: Automatic centering and Manual positioning Specifies where on a page the edit text is put. 2-18 IP-011 Printer Controller Chapter 3 Printer Driver Chapter 3 Printer Driver s Contents of This Chapter ..

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..... 3-2 s Working Environment ...

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.. 3-3 q Compliant OS

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..... 3-3 s Property of Printer Driver

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@@@Refer to the operating manual of the copier for details. @@@@This function is used to edit a watermark. This function is used to add a watermark. Delete This function is used to delete a watermark. @@@This function is used to return the settings to default settings. This function is used to perform a test print. This function is used to specify the paper tray. This function is used to specify the output tray.

This function is used to specify the orientation. This function is used to specify the paper type to be printed. Paper type Edit - Add - Default - Print test page - IP-011 Printer Controller 3-7 Chapter 3 Printer Driver s Description of Printer Driver Functions (in the alphabetic order) Functions (setting items) which can be set with the Printer Driver are summarized in the alphabetic order. These settings can be set by using [Start]-[Settings]-[Printers]- [KONICA IP-011] property. The tabs in this section are those in the [KONICA IP-011] property. q Alphabetic Order A About When [Setup] tab-[About] button is clicked, version information of the Printer Driver is shown. Add Port When the port you would like to connect to is not shown on the list shown by clicking the [w] 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. Alternate When the following conditions are satisfied, you can perform settings of the alternate printing by using [Setup] tab-[Alternate]. · When [None] is selected in the Finisher settings, or when the Finisher is not installed, · When [A4], [Letter] or [B5] is selected in the paper settings, · When the same size of paper for both portrait and landscape is set to the copier, (e.g.: A4/A4R, and B5/B5R) · When Front/Back Cover are not set and, · When [Booklet] is not selected in the [Duplex]. When [On] is selected in the Alternate printing, every set of copies are output in a direction at right angles to the previous set of copies.

e.g. 1st copy 2nd copy 3rd copy 2nd copy 1st copy Off On 3-8 IP-011 Printer Controller Chapter 3 Printer Driver B Back cover By using [Paper] tab-[Back Cover], you can perform the setting to use a designated tray for printing the last page. Select either [On] or [Off]. Default of Back Cover is [None]. When [On] is selected, select either [Blank] or [Printed]. When [Blank] is selected, nothing is printed on the back cover. When [Printed] is selected, the last page is printed on a back cover. The tray for the back cover is selected by using [Front/Back Cover]-[Paper Tray]. Back Cover [On] [Blank] Back Cover [On] [Printed] Back Cover [Off] [Not indicated] Back Cover can not be set in the following conditions: · When [B6R] is selected as a paper size, · When Alternate is set to [On], · When Duplex is set to [booklet], or · When Sort is set to [Group] C 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. IP-011 Printer Controller 3-9 Chapter 3 Printer Driver Copies Click the [v] or [w] button beside [Setup] tab-[Copies] or directly enter the number of copies from the keyboard. Default of the number of copies is 1. D Default By clicking [Setup] tab-[Default] button, settings of the [Setup] tab, [Paper] tab, [Print Quality] tab, and [Watermark] tab return to defaults. 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.

3-10 IP-011 Printer Controller Chapter 3 Printer Driver Duplex printing By using [Setup] tab-[Duplex], you can perform settings of the Duplex printings. You can select [1-Sided], [2-Sided Short Edge Binding], [2-Sided Long Edge Binding] or [Booklet] from the list shown by clicking the [w] button beside the [Duplex] box. Default of the Duplex printing is [1-Sided]. When [1-Sided] is selected, only one side of paper is printed. [2-Sided Short Edge Binding], [2-Sided Long Edge Binding] and [Booklet] can not be selected in the following conditions: · When [B6R] is selected as a paper size [Booklet] can not be selected in the following conditions as well: · When other settings than [Letter], [Letter R], [Ledger], [A3], [A4], [A4R], [B4], [B5R] and [B5] are selected as a paper size, · When Staple is set to other settings than [Off], · When Front/Back Cover is set, or · When Alternate is set to [On]. [2-Sided Short Edge Binding] Prints paper so that the head of the front becomes the foot of the back. A A B [2-Sided Long Edge Binding] Prints paper so that heads of both sides become upward A A B [Booklet] Prints paper so that booklets are made when it is folded into two. IP-011 Printer Controller 3-11 Chapter 3 Printer Driver E 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. F Finisher When the Finisher is attached to the copier, you can select the Finisher setting from [None], [2 Trays], [3 Trays] or [4 Trays]. Default of the Finisher is [None].

When [None] is selected in the Finisher settings, or when the Finisher is not installed, the function has limits as follows; · You can not select other settings than [Printer's Default] as an output tray. · Staple settings can not be performed. When [None] is selected in the Finisher settings, or when the Finisher is not installed, you can perform the Alternate printing. In this case, it is required that the same size of paper for both portrait and landscape is set to the copier. (e.g.: A4/A4R, and B5/B5R) Front Cover By using [Paper] tab-[Front Cover], the setting to print the first page from the designated tray can be performed. Select either [On] or [Off]. Default of Front Cover is [Off]. When [On] is selected, select either [Blank] or [Printed]. When [Blank] is selected, nothing is printed on the first page. When [Printed] is selected, the first page is printed on the front cover. The tray for front covers is selected by using [Front/Back Cover]-[Paper Tray]. Front Cover can not be set in the following conditions: · When [B6R] is selected as a paper size, · When Alternate is set to [On], · When Duplex is set to [Booklet], or · When sorting is set to [Group].



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When Front Cover is set to [On], you can not use the Alternate printing and Sort. 3-12 IP-011 Printer Controller Chapter 3 Printer Driver Front Cover [Off] Front Cover [On] [Blank] Front Cover [On] [Printed] [Not indicated] Front/Back Cover- Paper Tray Specify the tray for Front/Back Cover from the list shown by clicking the [w] button beside the [Paper] tab-[Front/Back Cover]-[Paper Tray] button. The selection by using [Front/Back Cover]-[Paper Tray] must be different from that by using the [Setup] tab-[Paper Tray]. Front/Back Cover-Paper Type Specify the tray for Front/Back Cover from the list shown by clicking the [w] button beside the [Paper] tab-[Front/Back Cover]-[Paper Type] button. G Group Refer to Sort. L Layout By using [Setup] tab-[Layout], you can set how many pages of documents are printed on one piece of paper.

You can select 1-Up, 2-Up, 4-Up, 8-Up or 9-Up from the list shown by clicking the [w] button beside the [Layout] box. Default of Layout is [1-Up]. The layout is made as follows: [1-Up] [2-Up] [4-Up] IP-011 Printer Controller 3-13 Chapter 3 Printer Driver [8-Up] [9-Up] When [Booklet] is selected in the Duplex printing, [2-Up] is automatically selected and you can not select other settings. When [Setup] tab-[Print Page Borders] check box is selected, you can print borders between gathered documents. Default of Print Page Borders is no check mark. When Layout is set to [1-Up], you can not select [Print Page Borders]. N New Driver To use drivers which are not displayed on the list shown by clicking the [w] button beside [Details] tab[Print using the following driver] box, click the [New Driver] button. When a driver is changed, the settings of presently shown property is saved and the property of a newly selected driver is shown. O Option Refer to Finisher and DB. Option Tray When the Option Tray is attached to the Konica 7020, it is required to set the [Option Tray] in the [Option] tab.

Select either [DB-209] or [DB-409]. Default of the Option Tray is [None]. By setting the Option Tray, functions are limited or enabled as follows; When [None] is selected in the Option Tray settings or when the Option Tray is not installed, you can not select [Tray 3] and [Tray 4]. When [DB-409] is selected in the Option Tray settings, you can not select [Tray 4] as a paper tray. When [DB-209] is selected in the Option Tray settings, you can select all trays as a paper tray.

3-14 IP-011 Printer Controller Chapter 3 Printer Driver Orientation Select either [Portrait] or [Landscape] from the list shown by clicking the [w] button beside [Set up] tab-[Orientation] box. Default of Orientation is Portrait. Output tray Select an output tray from the list shown by clicking the [w] button beside [Setup] tab[Output Tray] box. When [None] is selected in the Finisher settings, or When the Finisher is not installed, other settings than [Printer's Default] can not be selected. P Page protection By using [Print Quality] tab-[Protection] box, you can set Page Protection.

Page Protection is a function to secure memory for printing complicated characters and image documents in advance. Page Protection completely develops one page of print data before actual printing starts. This secures printing of each page and avoid the memory overrun error. Select either [Auto] or [On] from the list shown by clicking the [w] button beside the [Page Protection] box. Default of Page Protection is [Auto]. Normally, set this setting to [Auto]. If an error occurs, set it to [On]. When it is set to [ON], the print speed decreases and more memory is used, but a print error may be reduced. Paper tray Select a paper tray you would like to use from the list shown by clicking the [w] button beside [Setup] tab-[Paper Tray] box. When [Auto] is selected, a paper tray with paper which a user specified from an application by using [Konica IP-011 Printer Controller Driver Properties] is automatically selected.

In order to use [B6R], set to [Bypass]. In addition, when the bypass tray is selected, you can select [OHT Film] from paper types of the [Paper] tab. IP-011 Printer Controller 3-15 Chapter 3 Printer Driver Paper type [Plain], [OHT Film], [OHT Interleave] or [OHT Interleave Printed] can be selected from the list shown by clicking the [w] button beside [Paper] tab- [Paper Type] box. When Front/Back Cover is set, you can select only Plain. When [Tray 1], [Tray 2], [Tray 3] or [Tray 4] is selected by using [setup] tab-[Paper]-[Paper Tray], OHT Film is not shown on the list. When Paper Tray is set to [Bypass] and when [Sorting] is set to [Group], OHT Interleave and OHT Interleave Printed are not shown on the list. When the Duplex printing is set to other settings than 1-Sided, and when Staple is set to other settings than Off, OHT Film, OHT Interleave and OHT Interleave Printed are not shown on the list. 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. Print page borders Refer to Layout. Print quality Refer to Smoothing and Page Protection. Print Test Page Click [General] tab-[Print Test Page] button to perform a test print.

Printing to the following port Select the port name of the IP-011 from the list shown by clicking the [w] button beside [Details] tab-[Printing to the following port] box to change the printing port. Select a printing port from [COM1], [COM2], [FILE], [LPT1] and so on. 3-16 IP-011 Printer Controller Chapter 3 Printer Driver Print using the following driver Select the driver used for printing from the list shown by clicking the [w] button beside [Details] tab[Print using the following driver] box. When a driver is changed, settings of presently shown property are saved and the property of the newly selected driver will appear. S Set up-Original Paper Select the original paper from the list shown by clicking the [w] button beside [Setup] tab-[Paper][Original Paper] box. The original paper you can select is as follows: Paper Sizes to Be Selected (US) A3 A4 A4R A5R B5 B5R Legal (8.5x14in) Letter (8.5x11in) LetterR (8.5x11in) Statement (5.5x8.5in) Paper Sizes to Be Selected (Europe/others) A3 A4 A4R A5R B4 B5 B5R B6R 8k 16k 16kR F4 Ledger Legal (8.5x14in) Letter (8.5x11in) LetterR (8.5x11in) Statement (5.5x8.

5in) Refer to the operating manual of the copier for paper sizes which can be used on each tray. [**R] indicates to feed paper from a short edge. Document sizes not including "R" indicate to feed paper from a long edge. Set up-Paper Size When [Setup] tab-[Paper]-[Original Paper] has been changed, [Setup] tab-[Paper]-[Paper Size] is automatically set the same settings as [Original Paper].



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