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You can read the recommendations in the user guide, the technical guide or the installation guide for KONICA MINOLTA 7040. You'll find the answers to all your questions on the KONICA MINOLTA 7040 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual KONICA MINOLTA 7040**  
**User guide KONICA MINOLTA 7040**  
**Operating instructions KONICA MINOLTA 7040**  
**Instructions for use KONICA MINOLTA 7040**  
**Instruction manual KONICA MINOLTA 7040**

**Konica**

**IP-402<sup>+</sup>**

**Print Controller**



*User's Guide*



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**Manual abstract:**

@@@ has made every effort to ensure that information in this manual is complete and accurate. However, constant efforts are also being made to improve and update the product. Therefore, Konica Business Technologies, Inc. shall not be liable for errors in this manual or for any consequential damages resulting from the use of this manual. Information contained herein is subject to change without notice. *ii Welcome to your new print controller.* This device interfaces with your Konica printer main body, enabling you to print directly from your workstation. Use this equipment according to instructions in this User's Guide, which includes print controller specifications, and describes details of the printer functions, printer drivers, and driver screens. A description of fonts, symbol sets and printer commands is also included in this manual. Other product-related manuals are provided under separate cover.

For example, the printer engine comes with a separate User's Manual, which is to be kept with the main body equipment. The optional network interface card comes with the User's Guide for the Network Administrator, which manual is formatted to fit into this binder. Should you need assistance on technical matters not covered in this manual, please phone the Konica National Technical Support Center at 1(800)825-5664. Konica is committed to serving you the best way possible. We welcome your comments on this manual.

We also invite you to visit our Konica Web Site to learn more about our product line and to view user's manuals directly on your screen. Our Web Site address is: <http://www.konicabt.com> Please send correspondence regarding the User's Guide to the address shown below. **KONICA BUSINESS TECHNOLOGIES, INC.**

Digital Systems Solutions Group & New Product Development 500 Day Hill Road Windsor, CT 06095 *iii Definition of Terms* **CIC - Copier Interface Card** The hardware component inside the print controller (communication via PCI Bus) that interfaces with the 7040 print engine. Also referred to a **PED (Print Engine Controller)**. **EIC - Engine Interface Card** The hardware component inside the 7040 engine that interfaces with the print controller. **DPI - Dots Per Inch** The image resolution of the printer engine. **Double-Buffering** The print controller is designed with an asynchronous connection between the Main CPU and the CIC. This allows the main CPU to rasterize pages into memory even when the print engine is busy printing pages from a previous job, or is being fed pages by the CIC. This is commonly known as 'double-buffering' and allows higher throughput. **E-RDH - Electronic Recirculating Document Handler** An electronic memory and processing system where each image is scanned once and stored in memory. Each image is output face down in the desired order and according to special options. **Error Diffusion A 'dithering' or half toning system that does not use 'patterns' of dots, but places the dots in a pseudorandom distribution.**

**I/O - Input/Output** Refers to the Input and Output channels of the system. **OHP - Overhead Projection** The transparency media used in the bypass. **PCL - Printer Control Language** A term introduced by Hewlett Packard in their LaserJet series of printers. This product utilizes PCL-5E. **PostScript A** page description language designed by Adobe Systems Inc. This product utilizes Adobe PostScript Level 2. **VIS - Video Interface Specifications** Refers to the 7040 Video Interface Specifications. **iv NONEXCLUSIVE LICENSE AGREEMENT READ THE TERMS AND CONDITIONS OF THIS LICENSE AGREEMENT CAREFULLY. BY USING THE PRODUCTS DESCRIBED IN THIS USER MANUAL OR DOWNLOADING SOFTWARE OR PRINTER DRIVERS TO YOUR COMPUTER YOU AGREE TO BE BOUND BY THE TERMS OF THIS LICENSE.** The computer programs embedded in the equipment, the accompanying printer drivers (the "Software") and user documentation are copyrighted and licensed (not sold) to you by Konica Business Technologies, Inc. ("KONICA or LICENSOR"), 500 Day Hill Road, Windsor, Connecticut. This license agreement represents the entire agreement concerning the Software between you and KONICA and it supersedes any prior proposal, representation, or understanding between the parties. KONICA reserves any rights not expressly granted to you. **1. LICENSE GRANT.**

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*If the equipment is not installed and used in accordance with the instruction manual, interference with radio communications may result. This equipment has been tested and found to comply with the limits for a Class A computing device, pursuant to Subpart J, Part 15, of FCC rules, which are designed to provide reasonable protection against interference from such equipment when it is operating in a commercial environment. Users operating this equipment in a residential area are likely to cause interference, in which case they may be required to correct the interference at their own expense. Canadian Department of Communications Regulations Le présent appareil n'émet pas de bruits radioélectriques dépassant les limites applicables aux de Class A prescrites dans le règlement sur la brouillage radioélectrique édicté par Le Ministère des Communications du Canada. This equipment does not exceed the Class A limits for radio noise emissions as set out in the radio interference res when the end of job is reached by the end-of-file command of each language or by a 30-second time-out. · For language switching to function correctly, the system must be able to detect when the end of job is reached. PCL 5E: The PCL 5E interpreter of the print controller is PowerPCL from Pipeline Associates, Inc. It is an HP PCL 5E clone that supports multiple resolutions and PjL commands. PostScript: The optional PostScript interpreter for the print controller is PowerPage2 from Pipeline Associates, Inc. This is a Level 2 PostScript interpreter that also has Level 1 compatibility.*

*The PostScript programming language is specifically tailored to produce images in a device independent manner. PostScript language programs are reproducible on virtually any device without significant differences, except for differences created in the devices themselves. PjL Commands: Many of the PjL commands, as defined by HP, are supported by the print controller. Several special functions are controlled in PCL mode via the PjL commands. In addition, commands to provide bidirectional (BiDi) functionality are also supported. The Print Controller 1-2 The Print Controller System Configuration Your Konica print controller is based on an IBM compatible PC system that includes the following: Intel Pentium Celeron 333 Motherboard PCI ISA bus slots Standard 168 pin DIMM memory IDE Hard Disk 3.5" floppy disk VGA Video Card A keyboard or monitor may be used for diagnostic functions of the print controller. The Copier Interface Card (CIC) of the print controller acts as a bridge between the Motherboard and the Engine Interface Card (EIC) installed in the print engine. The CIC board contains a Motorola 68331 CPU and custom hardware and software for communicating with and controlling the print engine. The CIC card can be reprogrammed in the field via floppy disk, or through the network.*

*Settings Default Settings Default Paper Size Default Resolution Default Emulation Default Printer Quality Serial Port Parameters Other Settings E-RDH Print Order Duplex Sheet Insertion Paper Thickness Print Density Finisher Mode Letter 400 dpi PCL 5E Text Mode 19,200,N,8,1,Xon/Xoff Normal Off Off Normal Engine default Job Offset The Print Controller 1-3 The Print Controller Media Support The Print Controller supports the following paper dimensions and orientations through the printer's main body.*



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USA (inches) Tabloid-R Legal-R Letter-R Letter Half-Letter-R A4 A4R B4R (11 x 17) (8.5 x 14) (8.5 x 11) (11 x 8.5) (5.5 x 8.5) (297 x 210 mm) (210 x 297 mm) (364 x 257) Europe (millimeters) A3R A4 A4R A5R B4R B5 B5R F4R (297 x 420) (297 x 210) (210 x 297) (210 x 148) (364 x 257) (182 x 257) (257 x 182) (330.2 x 203.2) NOTE: An 'R' next to the paper size indicates that the short edge feeds first. Special Media Paper type can be specified from the print job screen.

Overhead transparency material (OHT/OHP), thick paper, and thin paper can only be used through the manual bypass tray. After selecting the manual bypass tray, you will be prompted to insert the requested paper size into the tray. The Print Controller 1-4 The Print Controller Layout Print Controller Front View Print Controller Rear View Power Cord Disk Drive Power On/OFF Serial Port Reset Button Parallel Port to PC CN1/CN2 IMPORTANT: 1. Before connecting cables to the print controller, be sure to turn power Off. 2. Plastic caps are provided to cover the Serial Port and Parallel Port (see Rear View illustration). When the printer connection port is not used, be sure to cover the port with a plastic cap. The Print Controller 1-5 The Print Controller I/O Interfaces Server Mac PC PC or Print Server PC or Print Server -----Ethernet----- V Network Interface Card KN-201 V V Serial Port > Parallel Port KN-301 Input Buffer PCL 5E Interpreter PostScript Interpreter Print Controller plus Memory V Controller Interface Cable 7040 Engine Interface Card (EIC) The Print Controller 1-6 The Print Controller Memory Configuration Most of the print controller memory is used for rasterizing the image. A small portion is used for the system operation (see NOTE). The basic print controller configuration includes 32 MB of RAM, which allows 1-bit mode printing at 400 dpi on all paper sizes.

The print controller may be upgraded to 512 MB in 32/64/128 MB increments to allow 8-bit Grayscale printing on Tabloid (11"x17") A3 paper, or double buffering on smaller paper sizes. When using the E-RDH in the one-sided mode, printing will be performed simultaneously while the print controller rasterizes the pages in the print job and sends them to the E-RDH memory. While pages are being printed from the ERDH memory, the print controller continues to rasterize the next print job in the sequence. The more memory in the print controller, the more pages it can rasterize while waiting for the previous job to print. A typical example of the memory requirements for a Letter page is as follows: 1-Bit 400 DPI 600 DPI 1,870 Kbytes 4,207 Kbytes 8-Bit 14.96 Mbytes 33.66 Mbytes 32 MBytes installed = 15 pages @ 1-Bit, 400 DPI NOTE: ~2.7 MB used for system. You may select various image quality modes from your print driver screen to produce various levels of grayscale. The following Table shows the available image quality modes and the grayscale levels they produce.

Print Mode Text (PCL/PS) High (PS) Print Engine 1-Bit Mode Print Controller 1-Bit Mode Grayscale 2 Levels 8-Bit Mode 8-Bit Mode 256 Levels Memory Upgrade Modules To obtain optimal printer performance, Konica recommends that DIMM modules be installed by a Konica certified technician. For details, contact your Konica service representative; or the Konica National Technical Support Center, at 1(800) 825-5664. The Print Controller 1-7 The Print Controller Specifications System Architecture Processor Memory Hard Drive Floppy Drive Input/Output Interfaces Serial Connector Baud Rates Parallel Network Connectivity RS-232C Serial Standard DB9 male 4,800~19,200 (default: 19,200) IEEE 1284 compatible bidirectional Compatible Optional KN-101, KN-201, or KN-301 Ethernet Network Interface: 10/100BaseT IBM Compatible PC System Intel Pentium Celeron 333 32 MB standard/512 MB max. IDE compatible 3.5" Floppy Disk PDL Support Standard Optional Font Support PCL PostScript Driver Software 45 PCL Fonts 35 PostScript Fonts (optional) Windows 3.

1, 3.11, Windows 95 Windows NT Workstation & Server ver. 3.x, 4.x Macintosh and UNIX, AS400/IBM environment PCL 5E PostScript Print Controller Features Multiple Page Buffering Real Time Mode Print Automatic Emulation Switching Automatic Port Switching Job Spooling The Print Controller 1-8 Section 2: Printer Drivers Printer Drivers Installing Printer Drivers Windows 3.

x The Printer Drivers that come with the IP-402 Print Controller are actually software programs that enable you to control all the printing settings for the selected printer. Before you can print from your application (e.g., spreadsheet or word processor), the appropriate printer driver must be installed on your computer system. Installing Printer Drivers is a simple procedure that includes the following: · Installing a specific printer driver · Assigning a port to the printer · Specifying settings for your printer (optional) · Setting the default printer Installing a Specific Printer Driver (ex. Windows 3.x Printer Driver) 1. Double-click the Main icon in Program Manager. 2. Choose the Control Panel icon.

3. In the control Panel window, choose the Printers icon. 4. Choose the Add button. 5. In the List Of Printers box, select Install Unlisted or Updated Printer. Depending upon the printer driver version, you may need to use the Browse button to find and select the driver. Then, click on OK until you get to the Add Unlisted or Updated Printer box. NOTE: To install a driver that is listed, but not installed, simply highlight it in List of Printers box. 6. Choose the Install button. 7. Insert the disk containing the printer driver into your floppy drive, The default for the Konica drivers is drive A. If you are using a different drive, specify it. When the appropriate drive is selected, click on OK.

8. In the Add Unlisted or Updated Printer box, select the appropriate driver and click on OK. 9. The printer name will appear in the list of installed printers. 2-2 Printer Drivers Printer Drivers Installing Printer Drivers Windows 3.

x Assigning a Port By default, LPT1 will be assigned to the newly installed printer. 1. To assign a different port, click on the Connect button. 2. In the Ports list, select the port you want to assign to the printer. NOTE: When installing to a network, up to three LPT printers can be assigned (LPT1, LPT2, LPT3) without having to add more through the WIN.INI file. Should it be necessary to add more than three printers, click on the Help button in the Connect box for instructions. Tip: If you print to LPT1 in Windows 3.x and LPT1 is redirected to another port, the printer will not print.

To correct this, select LPT1.DOS in the Connect dialog box. Specifying Printer Settings This is an optional step for making changes to the default printer settings, such as paper size or orientation. These settings can be temporarily overridden from within your application.



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1. Click on the Setup button in the Printers dialog box. 2. When the Setup box is displayed, make the desired selections. Setting the Default Printer When you install a printer, it will automatically be highlighted in the Printers dialog box. 1.

Highlight the printer you want as the default printer. 2. Click on the Set As Default Printer button. NOTE: Some applications act as a control panel, making their settings become the system default. This is not a function of the driver.

Printer Drivers 2-3 Printer Drivers Checking the Version of A Printer Driver Windows 3.x There may be times when you need to know if you are using the most up-to-date printer driver. Use the following procedure to check the version of a printer driver. 1. Highlight the driver in the Printers dialog box.

2. Click on the Setup button. 3. Click on the About button. 4. The About dialog box will be displayed with the printer version shown. 2-4 Printer Drivers Printer Drivers Printer Driver Screens For convenience, selected printer driver screens are displayed starting on the next page to show the various screens for making printing selections. Samples include PostScript printer driver screens for Windows 3.1; and PCL and PostScript printer driver screens for Windows 95. The Windows 3.

1 screens are similar to those in Windows for Workgroups. Many Windows 95 screens are similar to those in WindowsNT. When you select Print from your application, a screen displays that is specific for your installed driver. You may use the default settings shown on the screen, or you may select options associated with each printing mode. For a description of Printing Modes and Fonts that are available, see the pages following sample driver screens. Making Print Selections From Your Printer Driver Screen 1. From your printer driver screen, click on the desired printing mode. 2. Scroll options associated with the mode by clicking the up or down arrows. 3.

When all desired settings are indicated on the screen, click on OK. Printer Drivers 2-5 Printer Drivers PostScript Driver Screens for Windows 3.1 Paper Source The Paper Source screen allows you to select a specific tray, or use the Auto Select mode, which is the default setting. Auto Select mode means that the printer will select an appropriate tray that contains the paper size indicated. 2-6 Printer Drivers Printer Drivers PostScript Driver Screens for Windows 3.

1 Options The Options screen displays printer features that allow you to control the finishing style of your print job by selecting, Offsetting or stapling when printing multiple sets Print quality mode for graphic images Print density mode for reducing toner consumption Edge Smoothing to close feathered edges Printer Drivers 2-7 Printer Drivers PostScript Driver Screens for Windows 3.1 Advanced Options The Advanced Options screen allows you to select: Fonts

To change the default font currently in use, click the arrow in the Send to Printer field to display the options. Memory Increase the amount of memory allocated for storing pages. Graphics Change resolution to handle complicated text or halftone images. 2-8 Printer Drivers Printer Drivers PostScript Driver Screens for Windows 3.

1 Offset Mode When printing multiple sets, use the Offset mode to separate one printed set from another. Click Offset On, then click on OK. Printer Drivers 2-9 Printer Drivers PostScript Driver Screens for Windows 3.1 Staple Mode When printing multiple sets, use the Staple mode to staple each set. Click on Staple to display the current setting. If the current setting is acceptable, then click on OK. Click on the arrow to view further available setting options. Single Portrait mode places a staple in the upper left corner of a portrait document. Single Landscape mode places a single staple in the upper left corner of a landscape document. Double Staple mode places two staples along the left edge of a portrait or landscape document.

2-10 Printer Drivers Printer Drivers PostScript Driver Screens for Windows 3.1 Print Quality Use the Print Quality mode when your image includes graphics or halftones requiring a resolution that is higher than the Text mode. Click on Print Quality to display the current setting. Select the mode that is appropriate for the original image. Click the arrow to view further available setting options. Use the Very high mode for true grayscale printing. Printer Drivers 2-11 Printer Drivers PostScript Driver Screens for Windows 3.1 Print Density Print Density allows you to print with reduced toner consumption. Click on Print Density. The current setting will be displayed in the field below it.

To change the setting, click on the desired mode or click on the arrow to view further options. Toner Saver mode uses 80% of the amount of toner normally used. Draft mode uses 60% of the amount of toner normally used. 2-12 Printer Drivers Printer Drivers PostScript Driver Screens for Windows 3.1 Paper Size Paper Size allows you to select a specific tray size.

The default paper size is indicated. Click the arrow for Paper Size to scroll to the desired size. Double click on your selection, then click OK. Printer Drivers 2-13 Printer Drivers PostScript Driver Screens for Windows 3.1 Resolution The default Resolution displays on your screen.

To change the current setting, click on the arrow to display the optional settings. Double click the desired Resolution, then click OK. 2-14 Printer Drivers Printer Drivers PostScript Driver Screens for Windows 3.1 Edge Smoothing Click on Edge Smoothing to display the current setting. Setting options are On for Text or Objects, and Off. The default setting is Off. When Edge Smoothing is selected, edges of text or objects are filled in with extra toner. @@@@Click on Output Bin to display the current setting. To change the setting, click another option for the output tray. Or, click the arrow to view further available setting options.

@@@@This mode is speedier than the face down mode. @@Auto Select is the default setting. @@The default paper size is indicated. Click the arrow for Paper Size to scroll to the desired size. @@The default setting is Plain Paper. Use the arrow to view media options. @@@@Use the arrow to view media options. @@The default setting is for Letter size paper with Auto Select tray. Click on the arrow to display other options. @@In the example above, the Copy watermark is shown.

@@The default setting is Auto Match. @@@@Printing is faster with built-in fonts. In this screen the Arial font is downloaded. @@@@The default setting is 16MB RAM. @@The default setting is the Middle Tray.

@@@@Use the DB 208 tray if you expect to have a long print run. Double click on the selection, then click OK. The Setup screen displays the current media size and paper tray. The default setting is for Letter size paper with Auto Select tray. Click on the arrow to display other options. Double click on the desired selection, then click OK. 2-30 Printer Drivers Printer Drivers PCL Driver Screens for Windows 3.



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*1 Output Order Click on the Finisher tab to view the current output order setting. The default setting is face up. Use this setting when the sequential order of your document is not required. This mode is speedier than the face down mode. Select the face down mode when the sequential order of your document is required. Printer Drivers 2-31 Printer Drivers PCL Driver Screens for Windows 3.1 Offset When printing multiple sets, use the Job Offset mode to separate one printed set from another. Click Job Offset, then click on OK.*

*2-32 Printer Drivers Printer Drivers PCL Driver Screens for Windows 3.1 Staple When printing multiple sets, use one of the Staple modes to staple each set. When you click on the Finishing tab, the default setting shows that Job Offset is on and the Stapling function is off. Click on the desired Stapling mode, then click on OK. When the job is completed, the default setting will resume. Printer Drivers 2-33 Printer Drivers PostScript Driver Screens for Windows 95 General Screen The General Screen shows you the basic tab layout associated with printing properties. Clicking on each tab brings you to new screen options. Click on Browse to check out the environment and get questions answered upfront. Or, click Print Test Page to print a test page automatically. Type a key word in the Comment field and click OK.*

*The system will search for the topic and guide you further. Click on the arrow to display further available default settings associated with the general printing properties. 2-34 Printer Drivers Printer Drivers PostScript Driver Screens for Windows 95 Graphics - Halftoning The Graphics Screen displays the current setting for Resolution. The default setting is 400 dpi. This screen allows you to select Halftoning and Special modes.*

*To restore the default settings, click on Restore Defaults. Printer Drivers 2-35 Printer Drivers PostScript Driver Screens for Windows 95 Sharing The tab for Sharing displays the screen that shows whether your printer is being shared. The Not Shared status is indicated in the above screen. If your printer is being shared, the details will be indicated in the designated fields. 2-36 Printer Drivers Printer Drivers PostScript Driver Screens for Windows 95 Fonts The Font screen displays the current font settings.*

*If you need to edit the Font Substitution Table, click on the first item to display the editing screen. (See next page to use the Font Substitution Table.) Printer Drivers 2-37 Printer Drivers PostScript Driver Screens for Windows 95 Font Substitution Table Send host fonts to the printer. The Font Substitution Table lets you specify the host fonts that you want to be replaced with built-in printer fonts. Printing is faster with built-in fonts. In this screen, the Arial font is downloaded. Use the arrow to scroll to the available options. @@If no changes are required, click Cancel. 2-38 Printer Drivers Printer Drivers PostScript Driver Screens for Windows 95 Details - Printer Port The Details screen allows you to designate a port to be used for your printer. Click on the arrow to display the current port setting.*

*This screen also allows you to change the current time interval used for capturing files for printing. You may need to adjust this timeout setting when printing out very large files, but you will not need to change this setting for ordinary print jobs. Printer Drivers 2-39 Printer Drivers PostScript Driver Screens for Windows 95 Spool Settings When you click on Spool Settings from the Details screen, the above screen displays the current settings. The default settings shown enable you to spool your print jobs so the program finishes printing faster. Printing starts after the first page is spooled. You may change this setting to start printing after the last page is spooled, or to print directly to the printer. After making your selection, click on OK. If you want to restore the default settings before exiting from this screen, click on the Restore Defaults button. You may also cancel your selections and exit the screen by clicking on Cancel.*

*2-40 Printer Drivers Printer Drivers PostScript Driver Screens for Windows 95 Details - Printer Port Click on the arrow to display the port options.*

*Double click on the port you want to use, then click OK. Printer Drivers 2-41 Printer Drivers PostScript Driver Screens for Windows 95 Device - Features The Device Options screen shows the available printer memory and the current settings. To view the current settings, click on the arrow next to the item. To change the current setting, double click on the selection, then click OK. To leave the current settings unchanged and exit the screen, click Cancel.*

*To restore the default settings and exit the screen, click Restore Defaults. 2-42 Printer Drivers Printer Drivers PostScript Driver Screens for Windows 95 Device - Print Quality The current setting for Print Quality is indicated. The default setting for Print Quality is Text. To change this current setting, click on the arrow to view the options. Double click on the desired setting, then click OK.*

*Printer Drivers 2-43 Printer Drivers PostScript Driver Screens for Windows 95 Device - Drawer Base The current installable options settings are indicated. To change this setting, click on the arrow to view the options. Double click on the desired setting, then click OK. 2-44 Printer Drivers Printer Drivers PostScript Driver Screens for Windows 95 Paper Size Click on the Paper tab to display the current setting for paper size. The default Paper Size setting is Letter. To change the setting, click on another paper size, then click OK. Printer Drivers 2-45 Printer Drivers PostScript Driver Screens for Windows 95 Paper - Auto Select The current setting for Paper Source is indicated. The default setting is AutoSelect Tray. Click on the arrow in the Paper source field to view setting options. To specify a paper tray, see instructions on the next page.*

*2-46 Printer Drivers Printer Drivers PostScript Driver Screens for Windows 95 Paper Tray To specify a paper tray, double click on the desired tray, then click OK. When you specify a particular tray, keep in mind that if you select tray 5, for example, the system will look for the selected paper size in tray 5. If the selected paper size is not installed in tray 5, the job will not be performed until the correct paper size is installed in that tray. Printer Drivers 2-47 Printer Drivers PostScript Driver Screens for Windows 95 More Paper Options Click on the Paper tab to display the general screen for paper. Click on More Paper Options mode to display the above screen that indicates current settings for paper type and output bin. The default Output bin is the Middle Bin. Click on the arrow of the Output bin to view other options. When a specific selection is made, the system will output the mob to that bin. 2-48 Printer Drivers Printer Drivers PostScript Driver Screens for Windows 95 More Paper Options The default setting for Paper type is Plain Paper.*



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Click on the arrow next to Paper type to view further available setting options for paper type.

If you select a special paper, be sure it is loaded in the appropriate tray. Printer Drivers 2-49 Printer Drivers PostScript Driver Screens for Windows 95 PostScript Options Click the PostScript tab to display the current PostScript output format settings. Included are setting options for displaying PostScript header information and for printing PostScript error information. Current settings for Job timeout and Wait timeout are indicated. Before changing these settings be sure you understand the effect of the change.

To restore the default settings, click Restore Defaults, then click OK. To exit the screen without making any changes, click Cancel. 2-50 Printer Drivers Printer Drivers PostScript Driver Screens for Windows 95 PostScript Options PostScript [optimize for speed] is the default setting. Click on the arrow and scroll through the setting options. Double click on another setting, then click OK.

To restore the default settings, click Restore Defaults, then click OK. To exit the screen without making any changes, click Cancel. Printer Drivers 2-51 Printer Drivers PostScript Driver Screens for Windows 95 Advanced PS Options The above screen displays current settings that have been selected to give you optimal printer performance. These default settings should be changed by necessity only when you fully understand the effects of the change on the system. 2-52 Printer Drivers Printer Drivers PCL Driver Screens for Windows 95 General Screen The General Screen displays tabs for all available properties settings for the PCL Driver. Just click the tab topic you require and the appropriate screen will be displayed. Should you decide not to go further with any selection, click the Cancel button at the bottom of the screen. Printer Drivers 2-53 Printer Drivers PCL Driver Screens for Windows 95 Details - Printer Port The Details Screen shows the current setting in the Print to the following port field, and also allows you to designate another port for your printer (see next page). This screen also lets you to change the current time interval used for capturing files for printing. To print very large files, you may need to adjust this time-out setting.

In most cases, however, you will not need to change this setting. 2-54 Printer Drivers Printer Drivers PCL Driver Screens for Windows 95 Details - Printer Port (continued from previous page) To change the Port setting, click on the arrow in the Port field to display the available ports. Select the port you want to use for your printer, then click OK. Printer Drivers 2-55 Printer Drivers PCL Driver Screens for Windows 95 Setup - Paper Type The Setup Screen allows you to select the paper of your choice. Click on the arrow to scroll through the available paper and select the desired paper type. Be sure the paper type is loaded in a tray. The system will locate the paper in the appropriate tray. You may also switch from Portrait orientation to Landscape orientation, which places the readable printed image widthwise rather than lengthwise. 2-56 Printer Drivers Printer Drivers PCL Driver Screens for Windows 95 Setup - Auto Select The Setup Screen displays the current Paper Tray. The default setting is Auto Select, which enables the printer to automatically select the appropriate tray for the paper you select.

If you do not want to use the Auto Select tray, click on the arrow to scroll through the available choices, then select the paper type you want (see next page). Printer Drivers 2-57 Printer Drivers PCL Driver Screens for Windows 95 Setup - Paper Tray Click on Paper Tray to display the current paper tray setting.

Click on the arrow to view other options. To select a specific paper tray, double click on the desired tray, then click on OK. 2-58 Printer Drivers Printer Drivers PCL Driver Screens for Windows 95 Setup - Paper Size The default paper size is indicated.

Click the arrow to scroll through the available paper sizes. To select a paper size, double click on the desired size, then click OK. Printer Drivers 2-59 Printer Drivers PCL Driver Screens for Windows 95 Setup - Resolution The current setting for Resolution is indicated. The default setting is 400 dpi. To change the current setting, click on the arrow to display the available settings.

Double click the desired setting, then click OK. 2-60 Printer Drivers Printer Drivers PCL Driver Screens for Windows 95 Watermarks - General Select Watermark when you want to indicate a special condition of your printed document, such as, Confidential, Copy, or Draft. Click on the desired Watermark style, then click OK. Printer Drivers 2-61 Printer Drivers PCL Driver Screens for Windows 95 Fonts - General The Fonts screen displays the current font settings. If you need to edit the Font Substitution Table, click on the first item to display the appropriate editing screen. (See a sample of the Font Substitution Table on the next page.) 2-62 Printer Drivers Printer Drivers PCL Driver Screens for Windows 95 Font Substitution Table The font Substitution Table enables you to specify the host fonts you want to replace with built-in printer fonts. Built-in printer fonts enable you to print faster. In this screen, the Arial font is downloaded. Use the arrow to scroll to the available options.

@@If necessary, make changes, then click OK. If no changes are required, click Cancel. Printer Drivers 2-63 Printer Drivers PCL Driver Screens for Windows 95 Device - Options Click on the Device Options tab to display the Installable Options screen. This screen displays the current setting for installed memory and paper tray, indicating standard 16 MB memory and no Drawer Base. Click the arrow to view available Drawer Base options. Click on the desired option, then click OK. If no changes are required, click Cancel. 2-64 Printer Drivers Printer Drivers PCL Driver Screens for Windows 95 Stapling/Job Offset The Stapling/Job Offset screen displays the current Finishing setting along with available options. The default setting is Job Offset On, Stapling Off, and Output order Face up. Select any option for your print job, then click OK.

When the job is completed, the default setting will resume. The default setting can be changed from your Windows Printer screen. Printer Drivers 2-65 Printer Drivers PCL Driver Screens for Windows 95 Output Bin The current setting for the output bin is indicated. Click on the arrow to view other options (see next page). 2-66 Printer Drivers Printer Drivers PCL Driver Screens for Windows 95 Output Bin To select another output bin, double click on the desired tray, then click OK.

Printer Drivers 2-67 Printer Drivers PCL Driver Screens for Windows 95 Media - Print Density The Media Settings screen displays the current default setting (Normal) for Print Density along with available options.



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For any given job, you may select Toner Save mode or Draft mode. These modes use considerably less toner to help you conserve toner consumption. When printing is completed, the default setting will resume. 2-68 Printer Drivers Printer Drivers PCL Driver Screens for Windows 95 Media - Media Type The Media Type screen displays the current setting for media type, along with available options.

The default setting is Plain Paper. If you select one of the option settings, the default setting for Plain Paper will resume when the print job is completed. Double click on the setting you want, then click OK. Printer Drivers 2-69 Printer Drivers PCL Driver Screens for Windows 95 Sharing Click on the Sharing tab. The screen indicates whether the printer you are using is shared or not shared. The default setting is Not Shared, as shown in the above screen sample. If your printer is being shared on a network, details of the sharing information will be indicated in the Shared As field. 2-70 Printer Drivers Printer Drivers Printing Modes Output Quality High Mode (PostScript) High Mode produces 256-level grayscale printing with 8 bits per pixel. Text Mode (PCL/PostScript) Text Mode performs normal quality 2-level grayscale printing. Normal/Reverse Print Order Some applications have a Reverse Print Order setting; if selected, the setting will do exactly as it indicates.

Duplex Mode Stackless duplex means that the duplex mode makes unlimited 2-sided prints. Mode Restriction: Duplex Mode cannot be used together with the manual Feed Tray or High Mode. Offset Stacker/Stapler Multiple sets are copied and offset from each other with or without stapling. Mode Restriction: Job Offset or Stapling cannot be used with the Manual Feed Tray. NOTE: When switching resolution, wait up to 5 min. for the temperature adjustment to take place. Printer Drivers 2-71 Printer Drivers Printing Modes Real Time Mode Print The print controller performs page printing and starts printing as soon as it starts receiving a print job. This is different from document printing, where a printer starts printing only after receiving the entire print job. Dual Access The Dual Access function provides an efficient means for the printer to simultaneously handle different types of printer/copier jobs. Dual Access capabilities are shown below: . . . . Scanning-Printing Printing - Copying Printing - Printing Copying- Copying Copying - Printing The Electronic Recirculating Document Handler (E-RDH) allows the print engine to receive a job while it is printing your scanned or stored documents.

The print engine controls and creates the messages on the operation panel screen. The operation panel screen generates a Status Screen and a Job Screen, which is a copier type tab-based screen. When you access printer setting values and parameters, the print controller will take over the control of the operation panel screen. Image Density Selection Controlling the Print Density level provides an efficient way to save toner. You may select this function directly from your print driver screen.

There are five distinct Print Density modes that can be used. Each mode is listed below, along with the corresponding level of toner density used by the mode. . . . Normal Toner Save Mode Draft Mode 100% 80% 60% 2-72 Printer Drivers Printer Drivers Tray Selection/Paper Selection The system selects the paper size and paper tray in the manner specified below. G G When a print job does not specify paper size, the default paper size will be used. When the print job specifies a tray, one of the following occurs: If the requested tray contains paper, the printer will use the requested tray.

If the requested tray does not contain the specific paper size that was requested, the printer will ignore the tray request. If the requested tray is out of all paper, the printer will not look for another tray that may contain the paper size requested. G Auto Tray Selection Mode If a paper size is selected in your application screen, the printer will locate the paper source for that paper size and print the job. If a paper size selected in your application screen cannot be located, the system will prompt you with a control panel message to request a paper size. In case you are prompted to request a paper size, you may load the desired paper size in the manual tray or in tray 1 and continue printing; you may select another paper size and print; or you may abort the job. G Special Paper (OHP/Thin/Thick) If there is no paper installed, or if the wrong size paper is installed, the system will prompt you to install paper. Printer Drivers 2-73 Printer Drivers Font Selection Standard fonts of the PostScript and PCL 5e languages are displayed on the following pages. The PostScript fonts shown are the visual equivalent of the Adobe fonts with the same names. A PostScript compatible file system is provided for storing downloaded fonts or other files. At this time, PCL 5e does not support storing downloaded fonts on a hard drive.

Fonts that are downloaded with a print job are lost when the language changes or when the power is turned off. PostScript fonts can be permanently installed on the hard drive. Refer to your software documentation for font installation procedures. Selecting Fonts from Application Software Fonts can be selected through your application software after you have set up your hard disk with the necessary printer files and font files. Refer to your application software documentation for details. Selecting PCL 5 Fonts using Embedded Printer Commands Some applications allow embedded command to be entered in your file from within your document. @@Printer commands for PCL 5 are included in Section 4. NOTES: 1. @@2. @@3.

@@Symbol Set: A Symbol Set relates to the unique set of all available alphanumeric, punctuation, and special symbols in a font. More than one Symbol Set can be used by one font, e.g., a math symbol set, legal symbol set, or Roman-8 symbol set. Typefaces: Times Roman abcdefABCDEF&%!Helvetica abcdefABCDEF 12345&%!

Typeface relates to the design of all the characters and symbols that make up a font, e.g., serif or sans serif design. Point Size: 8 Point abcdefABCDEF12345&%! 12 Point abcdefABCDEF 12345&%! Point size relates to font height, and is measured in points at 72 points per inch. Point size is fixed in a bitmapped font, and variable in a scalable font. Pitch: Courier 10 Point 12 Pitch Courier 12 Point 10 Pitch Pitch relates to the number of characters per horizontal inch.

Fonts have either fixed pitch or proportional spacing, i.e., the number of characters per inch is variable. A 12 pitch font, for example, prints 12 characters per horizontal inch. Spacing: Fixed Spacing Courier 10 Proportional Spacing Times Roman 10 Spacing relates to the amount of space allotted to each character, as for [i] and [x]. Each character occupies either the same amount of space and is fixed, or each character space varies according to the width of the character, and is proportional.



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*The space allotted to characters is specified for the entire font. Stroke Weight: Helvetica Narrow abcdefABCDEF12345&%! Helvetica Bold abcdefABCDEF12345&%! Stroke weight relates to print thickness of each character, and is measured in terms of light, medium, and bold. Style: Helvetica Oblique abcdefABCDEF12345&%! Style relates to posture (upright, italics), width (condensed, normal, expanded), and structure (outline, solid, shadow). Printer Drivers 2-75 Printer Drivers PostScript Printer Language Fonts The following fonts are the visual equivalent of Adobe font names.*

*AvantGarde-Book AvantGarde-BookOblique AvantGarde-Demi AvantGarde-DemiOblique Bookman-Demi Bookman-DemiItalic Bookman-Light Bookman-LightItalic Courier Courier-Bold Courier-BoldOblique Courier-Oblique Helvetica Helvetica-Oblique Helvetica-Bold Helvetica-BoldOblique Helvetica-Narrow Helvetica-Narrow-Oblique Helvetica-Narrow-Bold Helvetica-Narrow-BoldOblique NewCenturySchlbk-Bold NewCenturySchlbk-BoldItalic NewCenturySchlbk-Italic NewCenturySchlbk-Roman Palatino-Bold Palatino-BoldItalic Palatino-Italic Palatino-Roman Symbol Times-Bold Times-BoldItalic Times-Italic Times-Roman ZapfChancery-MediumItalic ZapfDingbats ABCDEFGHIJ1234567890 1234567890 ABCDEFGHIJ1234567890 ABCDEFGHIJ1234567890 ABCDEFGHIJ1234567890 ABCDEFGHIJ1234567890 ABCDEFGHIJ1234567890 5 2-76 Printer Drivers Printer Drivers PCL Printer Language Fonts The interpreter for the PCL language interprets the following fonts for a PCL print job. Printer Drivers 2-77 Section 3: Symbol Sets Symbol Sets 3-2 Roman-8 Character Conversion Tables 3-20 Symbol Sets The symbol sets listed below are displayed on pages 3-19. Please check your application software documentation to determine which symbol sets are supported. For programmers using HP PCL language printer commands, the PCL value is given for each symbol set. Symbol Sets US: DT: E1: LG: M8: PB: PC: PC: PM: PI: MS: TS: R8: VI: VM: VU: WN: ASCII (ISO 6) Desk Top ECMA-94 Latin 1 (ISO 8859/1) Legal Symbol Set Math-8 Symbol Set Microsoft Publishing PC-8 PC-8 DN (Denmark/Norway) PC-850 Pi Font PS Math PS Text Roman-8 Ventura International Ventura Math Ventura US Windows Roman-8 Character Conversion Tables When the Roman-8 symbol set is downloaded to a PCL-based printer, it can be changed to other ISO symbol sets. The Roman-8 Symbol Set is displayed on p. 15. The decimal value for each symbol indicated on the Roman-8 Symbol Set can be entered with a corresponding hexadecimal or octal value as shown in the Tables on the pages following. The type of entry that is required depends on specific requirements of your software. Section 4: PCL 5 Printer Commands PCL 5 Printer Commands The following page display the basic PCL 5 escape codes for job control, page control, cursor positioning font selection, font management, vector graphics, raster graphics, printing, macros, programming, palette extensions, and HP-GL/2. Should you require additional PCL information, please visit our WEB site address at <http://www.konicabt.com>. KONICA BUSINESS TECHNOLOGIES, INC. 500 Day Hill Road Windsor, CT 06095 Telephone: (860) 683-2222 .*



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