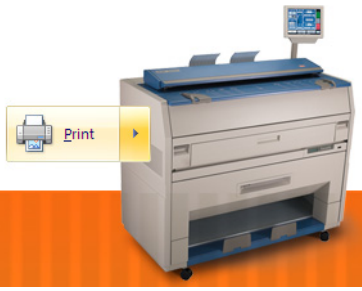
KIP

Microsoft® Certified KIP Windows® Driver Operator's Guide

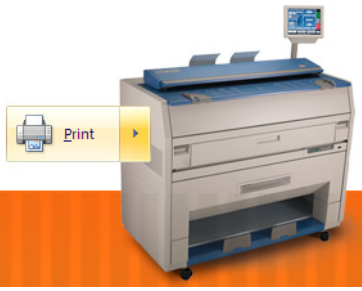
Version A1



KIP Windows Driver- 2007

Introduction

The KIP Windows driver has been tested by Windows Hardware Quality Labs (WHQL) and proven to deliver a superior experience when running a PC with Microsoft Windows operating systems. As a result, KIP is pleased to announce that the KIP Windows® driver has been WHQL certified for 64 and 32 Bit versions of Windows Vista, XP and 2003 Server, meaning the KIP Windows driver meets explicit standards of reliability and quality defined by Microsoft. The KIP Windows driver enables direct printing from Windows based applications and supports advanced features including set collation, fast spooling for multiple copies or sets, data tracking for job accounting and media selection.



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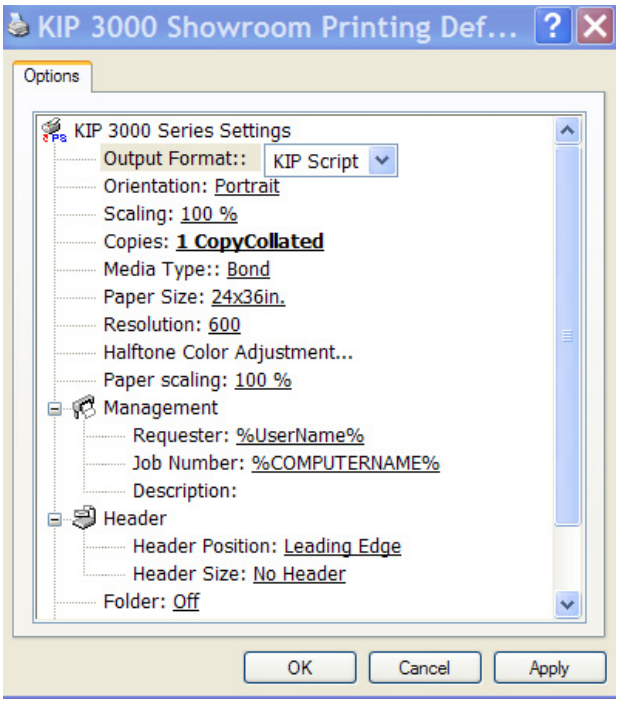
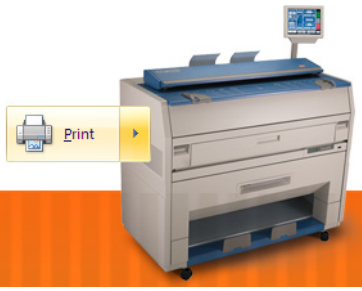
Option Screen – Overview



Beginning at the top of the layout above, these are the main features on the KUWPD

Name	Feature / Function
Output Format	Selects the type of "language" for driver output
Orientation	Rotation of the page
Scaling	Allows scaling of an image to the page size if not supported in the application.
Copies	Selects the total number of prints
Media Type	Selects the output media type
Paper Size	Selects the page size from standard sizes or create a custom page size.
Resolution	Select the resolution to match the printer DPI
Halftone Color Adjustment	Allows dither pattern change from various colors from the within an application to the printed document.
Management	Allows accounting to be used from windows applications.
Header	Places a text header on the print for quick document identification
Folder	Allows the document to be folded (with optional folder)
Mirrored Output	Mirrors the image on the print
Reverse Collate	In a multi page document, reverse the print order



Function Details

Output Format

KUWPD improves support for many Windows applications by providing dual output printer language capabilities. Selecting the *Output Format* in "Printing Preferences" *before* entering an application will select the proper output method.

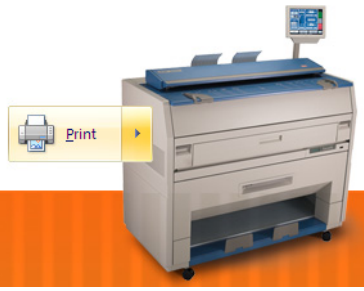
KIP GL Output Format

The first output format the KUWPD is capable of is KIP GL (HP-RTL). CAD applications that may not have a compatible driver available can utilize KIP GL and achieve improved quality. The KIP GL output can be further enhanced by making changes to the Default Pen Table on the KIP IPS. Features already in the Default Pen Table on the KIP IPS such as Line Width Compensation and RTL Dither allow users to achieve improved quality when using the KIP GL output format.

KIP Script Output Format

The user can choose KIP Script (Postscript output) when printing from applications that function best when outputting Postscript data. For example; Adobe Acrobat functions best when using Postscript output, especially on images larger than E-size (Acrobat 6). Other graphics applications including MS-Word, Powerpoint, and Excel also work very well with KIP Script output. The KIP Script data can be smaller in file size and transmits quickly over networks.

> **NOTE**
>
> The KIP PDF option is required for printing KIPScript data. Please contact your local KIP dealer for details.



NOTE

When using the KIP GL output format, the Default.PEN - Pen Table at the KIP Controller will also control some of the printing features. Features such as Vector Line Dither Pattern, RTL Raster Dither, RTL Density, and Line Width Compensation are used during conversion for printing. These settings must be configured PRIOR to opening the KIP Unattend print queue.

NOTE

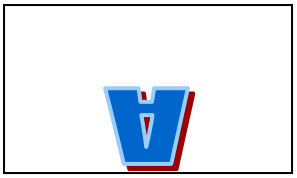
Certain applications work better depending on the *Output Format*.

- Applications using heavy raster or photographic data work best with KIP Script type output. Examples: Adobe Acrobat products, Adobe Illustrator Products, Adobe Photoshop Products and Corel Draw based products.
- Microsoft applications generally work well with either output format. Examples: Microsoft Word, Excel, Project.

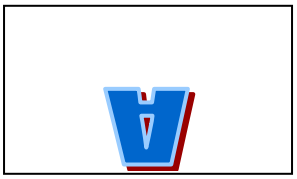
Orientation

There are two types or Orientation in the KIP driver: Landscape and Portrait.

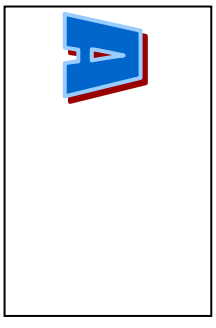
Examples:



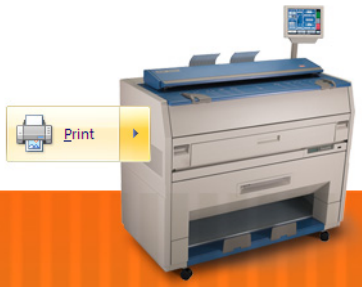
Landscape



Landscape



Portrait



Selection of the orientation should take into account the design or layout from within the application. If an incorrect orientation is selected the page size can be "rotated" incorrectly and image may be lost in the final printed output.

Scaling

Many Windows applications have their own scaling capabilities built into the "print menu". For example: Spicer and MS PowerPoint allow for some form of "Scale to Page" type feature. Some Windows applications such as MS Word and MS Excel do not allow for scaling to engineering and architectural wide format paper sizes. The "Scaling" feature in KUWPD allows the user to set a percentage to enlarge the document to fit the paper size desired when scaling is not included in the application.

Example:

No scale used

KIP

scale applied to enlarge image

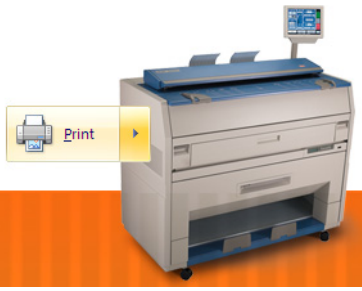
KIP

Copies

Select the total number of copies you wish to print. The range is from 1 to 999.

Media Type

The KIP printer may have more than one media type installed. These types may include bond, vellum and film. This feature allows printing onto a media type of your choice of an installed kind.



Paper Size

Select the output page size. Please note that the KIP printer may have a roll installed that may be larger than the selection.

This feature is very important in wide format printing from CAD applications and MS Excel. This is a feature that is required in CAD applications where the image size may vary from one image to the next such as: 36" x 60" for the first document then 24" x 80" for the next.

The Custom Size feature allows the users much simpler access for several capabilities:

Choose any paper size "on-the-fly" without adding new paper sizes to the operating system (Printers and Faxes→Server Properties→Forms).

Choose different and non-standard paper sizes for each and every document.

Choose very long paper sizes.

It is not necessary to exactly match the document length to the output length; the users can intentionally choose a longer length for the media size. For example, if the image is meant to fit on 36" wide media, but the user isn't sure about the length of the media required, the user can set a very long length (up to 200 feet) and the "white" space (extra paper) at the end of the document will automatically be removed. This prevents any waste of media without an image (KIP GL)

Resolution

Output resolution is automatically determined when installing the Windows driver.

⚠ NOTE

The KIP 3000 is a 600 x 600 DPI device.
The KIP 5000 is a 600 x 600 DPI device.
The KIP 7000 is a 600 x 600 DPI device.
The KIP 9000 is a 600 x 600 DPI device.

Halftone Color Adjustment

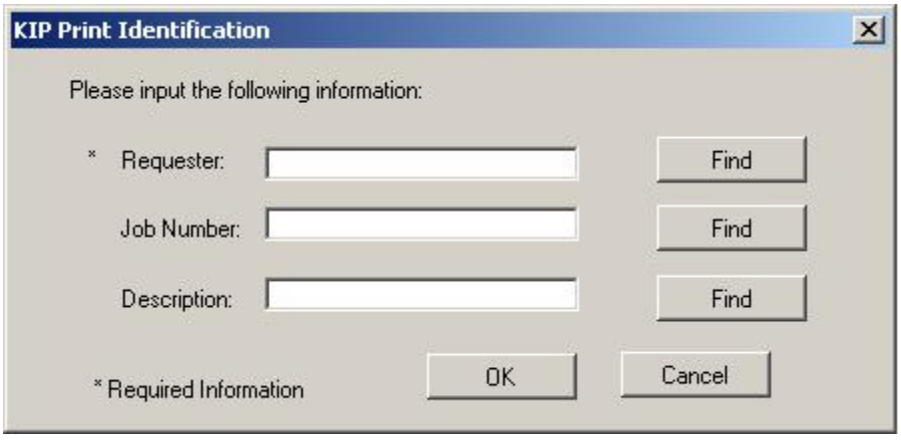
The KIP IPS is a monochrome image processing device and cannot set any other color adjustments.

Management

The KIP IPS has the ability to account for each print produced. This allows for job/department costing. Three fields exist in the driver to allow the user to include this information.

These fields are:
Requester
Job Number
Description

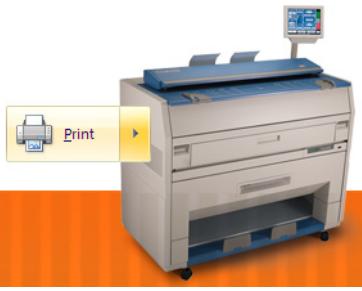
Unified Accounting – The Windows Driver points to a central location Ex. A KIP 7000 which has a centralized list and rules for accounting. For information on how to set up unified Accounting please see the Request or PrintNet sections.



The Requester, Job Number and Description fields under "Printing Preferences" can be set to use operating system environment variables.

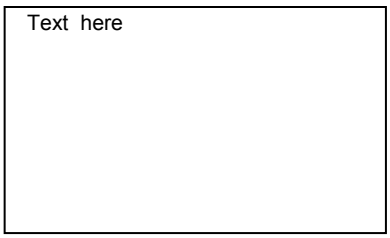
Examples: The *Requester* field can be set to %Username%

The Description field can be set to %Computername%



Header

To easily recognize printed documents, text can be placed on the top and bottom of the print. The text header includes all the "Management" information as well as the file name.



Folder

If an optional folding device is installed onto the printer, select fold to allow the printer to determine which fold table to apply to the document. The patterns must be set by a certified service technician in the KIP IPS.

Mirrored Output

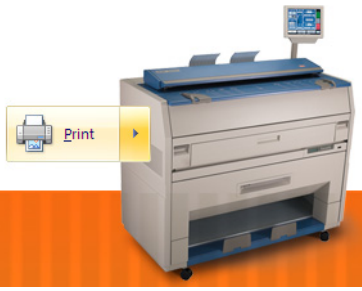
The image can be mirrored as required by the user. This may be needed on translucent media or for other specialty applications.

Reverse Collate

If the document to be printed contains more than one page, collation may be important. To allow the pages to be reversed printed (last page first), select this function. Please note that the application must also support multiple page printing.

Stamps

The KIP Windows driver will read the list of available stamps that are configured on the KIP IPS. It is not possible to modify these stamps using the driver. For information on configuring stamps, please see the KIP Request documentation.



Installation

Prerequisites

Requirements at the Network Server or User Workstations

The **K**IP **U**nified **W**indows **P**rinter **D**river (KUWPD) allows windows printing from Microsoft Windows 2000 / XP / Vista / Windows x64 Operating systems as well as 2003 Server based applications. **(Windows 9x and Windows NT is not supported)**

Please ensure that your applications are as up-to-date as possible, in terms of version, available service packs, and hot fixes (this also includes your OS).

If you are updating your system from a previous installation, you will likely need the assistance of and/or permission from a Network Administrator to remove the previous KIP Driver. Any users connected to the previous shared version of the KIP Printer Driver on the Server or Workstation will need to remove that printer object and connect to the newly shared driver that will be installed.

KIP **U**nified **W**indows **P**rinter **D**river (KUWPD) offers HPGL2/HP-RTL and Postscript Language printing to KIP digital printers from Microsoft Windows 2000 / XP / Vista / 2003 based applications **(Windows 9x and Windows NT platforms not supported).** The driver can be downloaded from your local KIP website and is included on your KIP Software CD. This driver may also be obtained from KIP PrintNET. Please see the PrintNET documentation for more information.

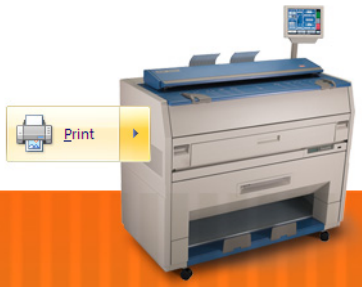
KUWPD contains:

Printer driver files

A dedicated printer port monitor (KIP0) for Microsoft operating systems as described in the following pages. Once the KUWPD has been downloaded and uncompressed, the files can be placed directly on the workstation or server to which it will be installed or on a USB drive or CD. **See Appendix A** for details on the files and file structure.

For new installations on a Workstation or Server see: "Installation Process"

For updating from a previous installation of a KIP Printer see: "Upgrade Installation"



Installation of the Microsoft Certified KIP Windows Driver

KUWPD version 2.139

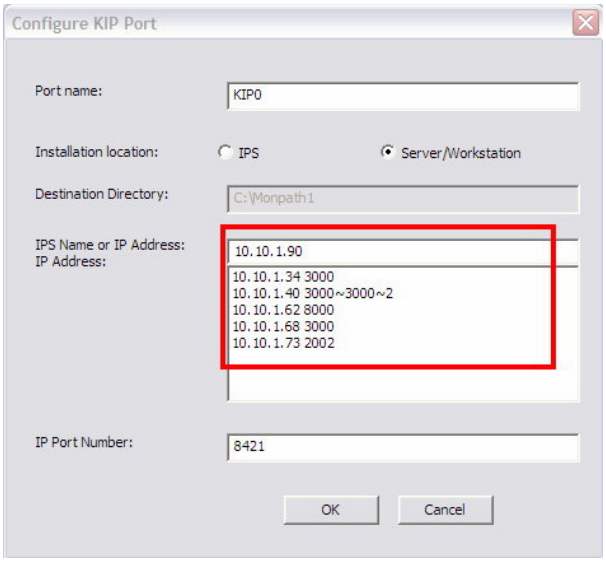
To install KUWPD please ensure that the previous version of the KIP Windows driver has been completely removed. This does include the KIP0 port monitor and all files associated with it.

Uninstall Previous Windows Driver Version

1. Go **Start→Settings→Printers and Faxes**
2. Remove the installed KIP Printer Object and any other printer objects connected using available KIP port(s)
3. Go to **File→Server Properties→Ports**
4. Remove any KIP Ports in this list
    a. This includes any KIPx port
5. Go to **File→Server Properties→Drivers** and remove any KIP Printers in this list
6. Go to **Start→Run** and type **Net Stop Spooler**
7. Go to C:\Windows\System32\Spool\Drivers\W32x86
8. Delete anything that starts with a KA, KI or KU
9. Go to the folder named "2" and remove anything KA, KI or KU
    a. Within W32x86\2\temp please remove any a KA, KI or KU .tmp files
10. Go to the folder named "3" and remove anything KA, KI or KU
    a. Within W32x86\3\temp please remove any KA, KI or KU .tmp files
11. Go back to C:\Windows\System32 and remove the kaw2kppm.dll and if there kuwxppm.dll
12. Go to **Start→Run** and type **Net Start Spooler**
13. To remove System Registry entries:
    a. Navigate to HKLM\System\CurrentControlSet\Control\Print\Printers
    b. Remove any KIP Printer object keys
    c. Navigate to HKLM\System\CurrentControlSet\Control\Print\Monitors
    d. Remove KIP Monitor or KIP Printer Port Monitor(s)
14. Reboot the Server if any files or registry keys could not be removed from the previous procedures and you receive an Access Denied error message. You should now have a clean system

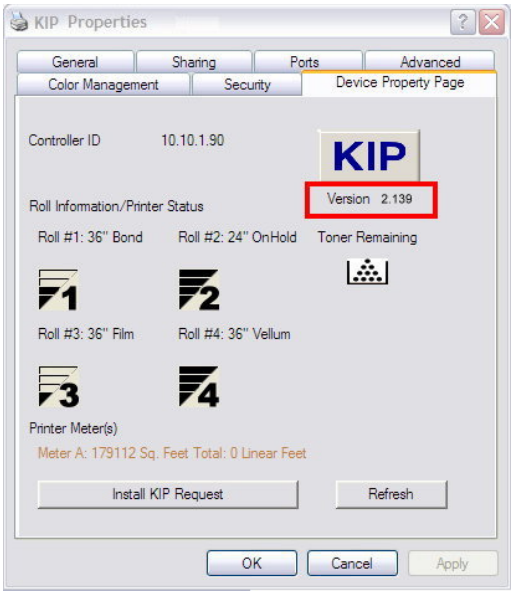
Installing and Using KUWPD Version 2.139

1. Download KUWPD directory to a local PC drive location for ease of use.
2. Go to **Start→Settings→Printer and Faxes**
3. Click on **File→Server Properties→Ports**
4. Click on **Add Port→New Port Type**
5. Browse for *monitor.inf* from the WinXP folder of the downloaded KUWPD folder from the KIP web site.
6. The KIP Monitor will now be a selection within the Port Selection window
7. Select **KIP Monitor** and click on **New Port**
8. Select the desired KIP from the list or type in the IP address of the KIP Printer



9. Ensure the following settings:
    a. Port name: KIP0
    b. Installation location: Server/Workstation
    c. IP Port Number: 8421
10. Click **Start→Settings→Printer and Faxes→Add a Printer** to begin the printer driver installation process
11. Choose a **Local printer attached to the computer** and click on **Next**
12. **Use the following port: KIP0 (KIP Port)**

13. Click on **Have Disk** and browse for *plotter.inf* from the WinXP directory that was downloaded from the KIP FTP site
14. Choose the correct **KIP Printer** model from the list
15. Follow the prompts to complete the installation of the printer driver.
16. Please check the following settings to ensure that the driver has been properly installed:
    a. Right click on the installed printer driver object and select **Properties**
    b. Click on the **Device Property Page** tab and verify the version number is 2.139



Setup KIP Windows Driver in LPR Mode

The KIP Windows driver may operate in several modes and may be connected through various methods.

The preferred method is to utilize the KIP0 port monitor. This port monitor has been developed with 2 way communications in mind. The KIP Driver is able to gather accounting and printer status directly from the KIP print controller (IPS). However, this method may interfere with current IT department's regulations.

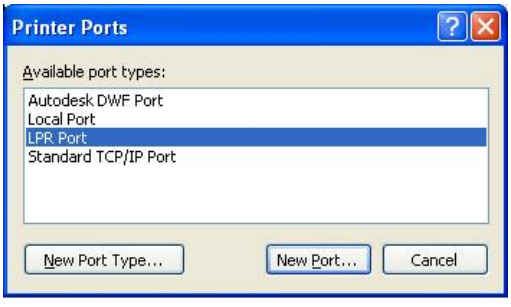
If the KIP0 port monitor cannot be used, it is possible to use either an LPR port monitor or a Standard TCP/IP port monitor.

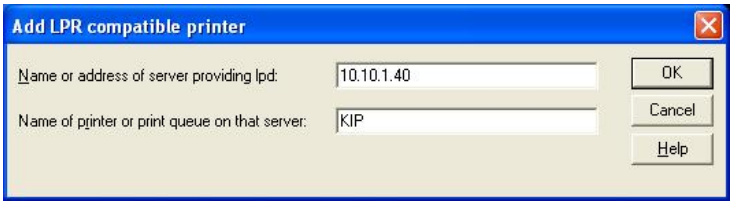
The LPR port monitor will provide the best performance in most scenarios as the Standard TCP/IP port may have port connection limitations.

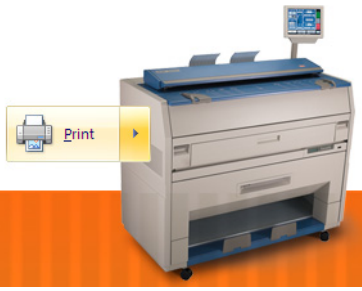
It is imperative that before any KIP Printer Driver is installed, the previous version driver is completely removed. If the previous driver remains, the setup will not function properly.

In order to setup the LPR port monitor it is necessary to have Print Services for Unix installed from the Windows Component setup dialog.

1. Create a new LPR port monitor from the Printer and Faxes dialog.
2. Click on File→Server Properties and select LPR Port and click on New Port
3. Type in the IP address of the KIP IPS and enter the default print queue name on the KIP IPS. This is KIP.
4. The LPR port has been setup and configured correctly and may now be attached to a KIP printer object.





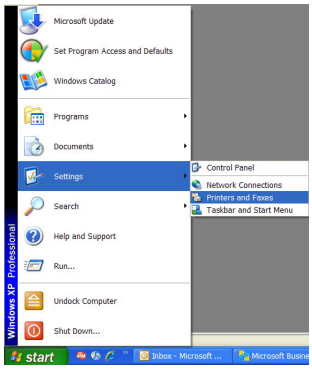


5. Click on the Add a Printer Wizard to begin the KIP Windows Driver setup.

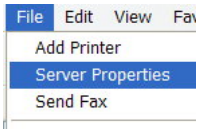
6. Select the newly created LPR port (10.10.1.40:KIP) as the port.
7. Browse for the new printer driver by selecting on the **Have Disk** button. Browse for the latest KIP Printer driver.
8. Choose the proper KIP Printer driver model from the available choices and finish by completing the steps as described in the Add a Printer Wizard setup.
9. Print a test page to ensure that the driver is operating properly.

Setup KIP Windows Driver in TCP/IP Mode

1. Go to Start --> Printers and Faxes

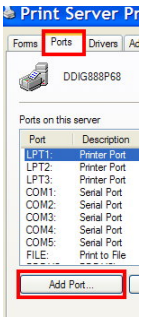


2. Click on File --> Server Properties



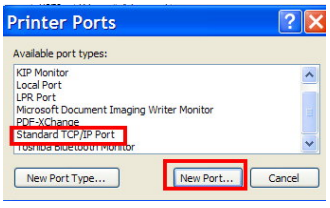
3. Click on the Ports tab

4. Click Add Port

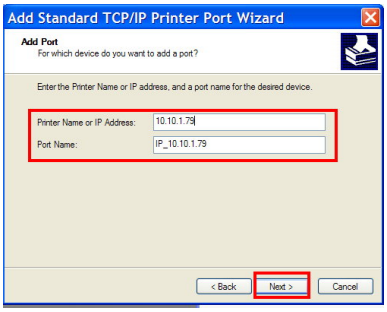


5. Highlight Standard TCP/IP Port and the select New Port

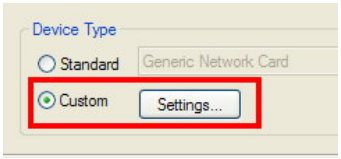
6. Click on Next



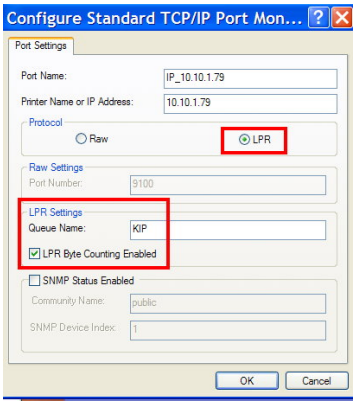
7. Enter the IP address of the KIP Printer (works much better with a static IP address)
8. Click Next (may take a minute to determine what it is connecting to)



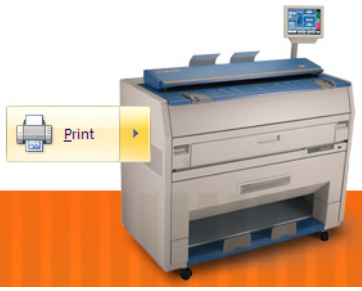
9. Under Device Type, click on Custom and then Settings
10. Select LPR under Protocol



11. Under LPR Settings type in the default queue name on the KIP controller (This is the printer object name, typically KIP)
12. Select Enable LPR Byte Counting
13. Click OK, then Next to review the options and then Finish



At this point you have just installed the port. Now you can go through the standard Add a Printer Wizard to add the KIP printer, just select this port when you add the printer.



Appendix

File Structure Overview

When the printer driver is unzipped and copied to the Hard Disk of the system where it will be installed, the directory and file structure are as follows:

\KUWPD

\KUWPD\AMD64

\KUWPD\Vistax64

\KUWPD\Vistax86

\KUWPD\WIN2000

\KUWPD\WINXPx86

\KUWPD\WINXPx64

\KUWPD\WIN2003x86

\KUWPD\WIN2003x64

AMD64

Copy64.exe - utility to properly place x64 files in support path structure

Microsoft.VC80.CRT.manifest – Microsoft compiler manifest file

msvcr80.dll - Microsoft DLL needed.

WIN2000

Kaw2kppm.dll- Printer Port Monitor for Microsoft Windows 2000

Kipgs24.ppd- Postscript Printer Definition File

Kipgs400.ppd- Postscript Printer Definition File

Kipgs600.ppd- Postscript Printer Definition File

Kipgs1020.ppd- Postscript Printer Definition File

Kuwxppd.dll- Printer Driver DLL for Microsoft Windows 2000 / XP / 2003

Kuwxppui.dll- Printer Driver User Interface for Microsoft Windows 2000 / XP / 2003

Monitor.inf- Printer Port Monitor installation file for Microsoft Windows 2000

Plotter.inf- Printer Driver installation file Microsoft Windows 2000

WINXP

Amd64

Kuwxppd.dll- Printer Driver DLL for 64 bit systems

Kuwxppms.dll- Printer Port Monitor for 64 bit systems

Kuwxppmu.dll- Printer Port Monitor User Interface for 64 bit systems

Kuwxppmui.dll- Printer Driver Interface for 64 bit systems

i386

Kuwxppm.dll- Printer Port Monitor for Microsoft Windows 2000 / XP / x64 / 2003

Kipgs24.ppd- Postscript Printer Definition File

Kipgs400.ppd- Postscript Printer Definition File

Kipgs600.ppd- Postscript Printer Definition File

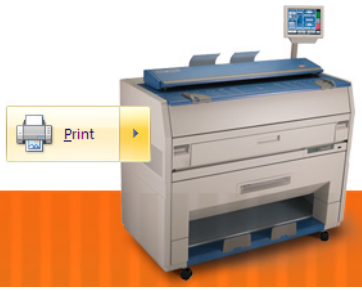
Kipgs1020.ppd- Postscript Printer Definition File

Kuwxppd.dll- Printer Driver DLL for Microsoft Windows 2000 / XP / x64/ 2003

Kuwxppui.dll- Printer Driver User Interface for Microsoft Windows 2000 / XP / x64

Monitor.inf- Printer Port Monitor installation file for Microsoft Windows XP / x64 / 2003

Plotter.inf- Printer Driver installation file Microsoft Windows XP / x64 / 2003



Printing Hints

Issue: Adobe Acrobat 6.X products, when printing with KIP GL output language and large size (E-Size or larger) documents has potential to miss or clip off data prematurely.

Solution: Adobe Acrobat 7.X products correct this issue. Acrobat 6.X requires the use of KIP Script output to solve this issue (choose KIP Script in the drivers **Printing Preferences** prior to opening Acrobat 6)

Issue: Printing from Adobe products such as Acrobat Reader requires Postscript output.

Solution: Default the "Printing Preferences" of the KIP driver to KIP Script prior to opening the Adobe application. Printing of KIPScript data also requires the Powerscript3 option on the KIP Controller.

Issue: The **output format** for driver MUST be chosen before entering an application to ensure proper output format.

Solution: Ensure **output format** is set in Printing Preferences before launching an application.

Issue: Printing from AutoCAD products with large and/or complex amounts of embedded raster objects will cause a very large output file / spool file size.

Solution: It is suggested to use dedicated KIP ADI/HDI for complex raster printing from AutoCAD products.

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