KIP America Windows Printer Driver (KAWPD)

Installation Instructions

Rev. 3 May 9, 2001

Contents:

The 2-Color Windows printer driver is KIP America's latest printer driver for printing from Windows-based applications. It blends the ability to spool directly to the printer with the flexibility and power associated with the KIP Monitor Paths.

- Sharable from the Server
- Compatible with Win95, Win98, WinNT, Win2000
- Tracks User, Job Number and Description fields
- Ability to spool to an LPD port on the KIP Controller
- Ability to send data to an existing Monitor Path
- Designed to completely integrate with existing KIP devices. Not 3rd party software.
- Prints to a monochrome device, or a 2-Color device
- Paper type, header and fold options

How Is This Driver Unique?

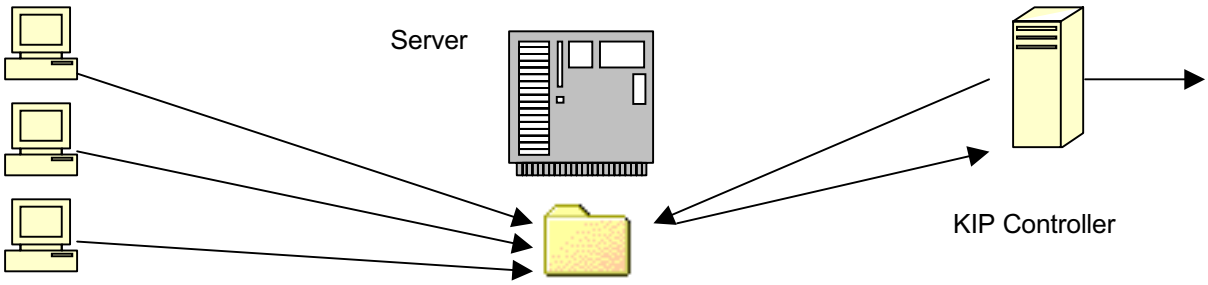
This driver will create its own port similar to LPT1 called KIP0. The output from the port can be directed to the existing KIP Monitor path. Or, if there is an LPD port established on the server/controller for UNIX based networking, one may spool directly to it. More on this to follow.

The process for loading this driver is also unique. The first time it is loaded, it will create the port, and a default model type of the user's choosing. If one is loading the driver again for a second KIP device, there is a different process to follow. Please read the directions carefully.

Understanding Monitor Paths

A KIP printer has much more flexibility than a spool-to device. When submitting to any other printer, it will be seen as a printer on the network. The KIP printer would appear as a computer. That's because there is a Windows NT Controller that interfaces between the User and the Printer. Normally, jobs are submitted to a series of folders on the Network Server called the Monitor Path, or Monpath1. Then the *KIP controller is mapped to the server*, and configured to monitor those folders for jobs. When a job is seen, it is copied to the controller and printed. This process saves the headaches and limitations of having to Users plot directly to the WinNT controller.

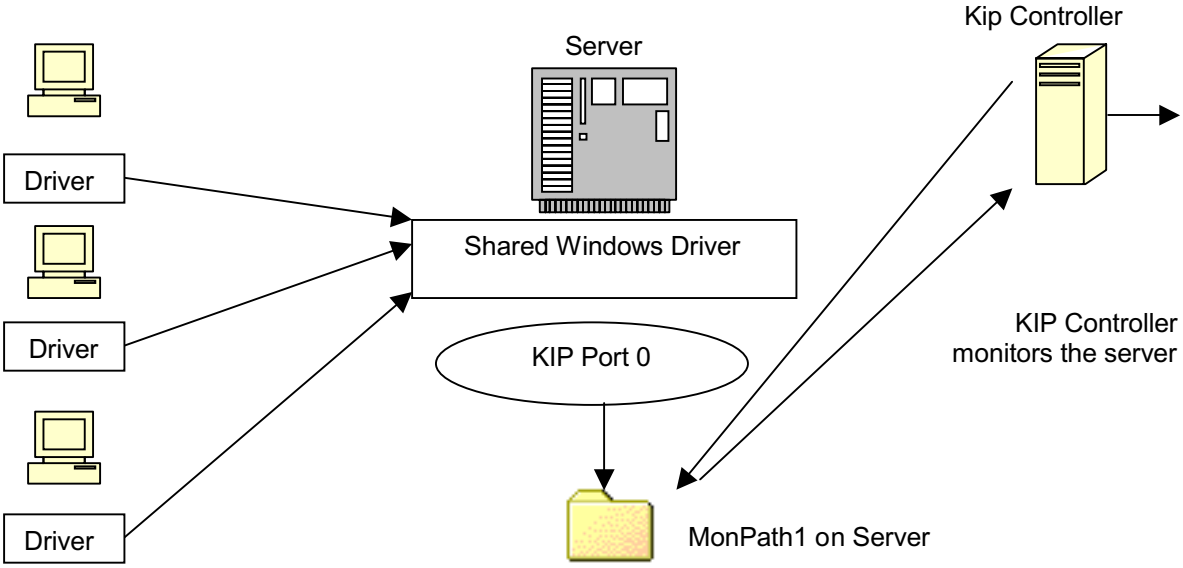
Here is how a normal configuration looks before we install the Windows driver:



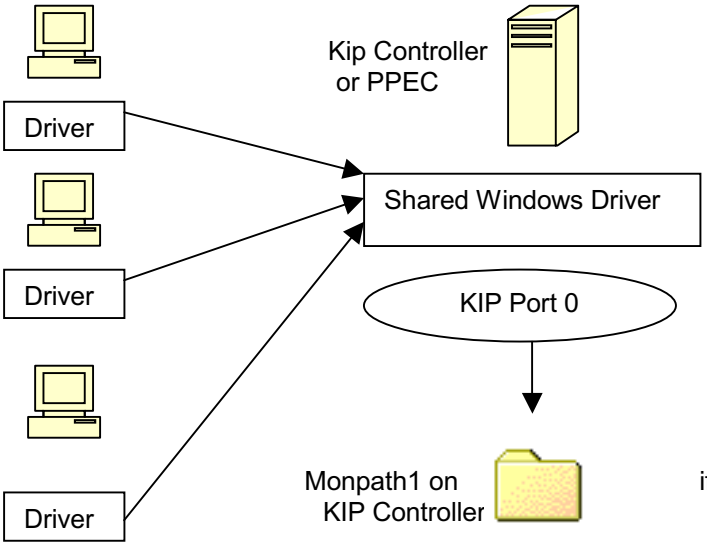
In this scenario, workstations are configured to Request jobs or send Autocad plots to Monpath1 on the server. Then the Unattend program on the KIP controller monitors the server for jobs. When a job comes in, Unattend copies the job over, converts the job, and sends data to the printer. In the above scenario, we were limited to the types of files that we could send to the printer.

In the scenario below, the Windows driver has been loaded at the Server and shared out. Each workstation has loaded the Windows driver from the server . Now the workstations can print from any application. The Windows driver converts the job into a Request ticket. It is spooled to the Server's KIP Port 0, which then writes it out to the monitor path of choice. Please choose the monitor path on the server. At this point, the KIP Controller monitors the server, then brings in the job to print.

Correct Setup Methods – Using A Network Server



Correct Setup Method – No Server

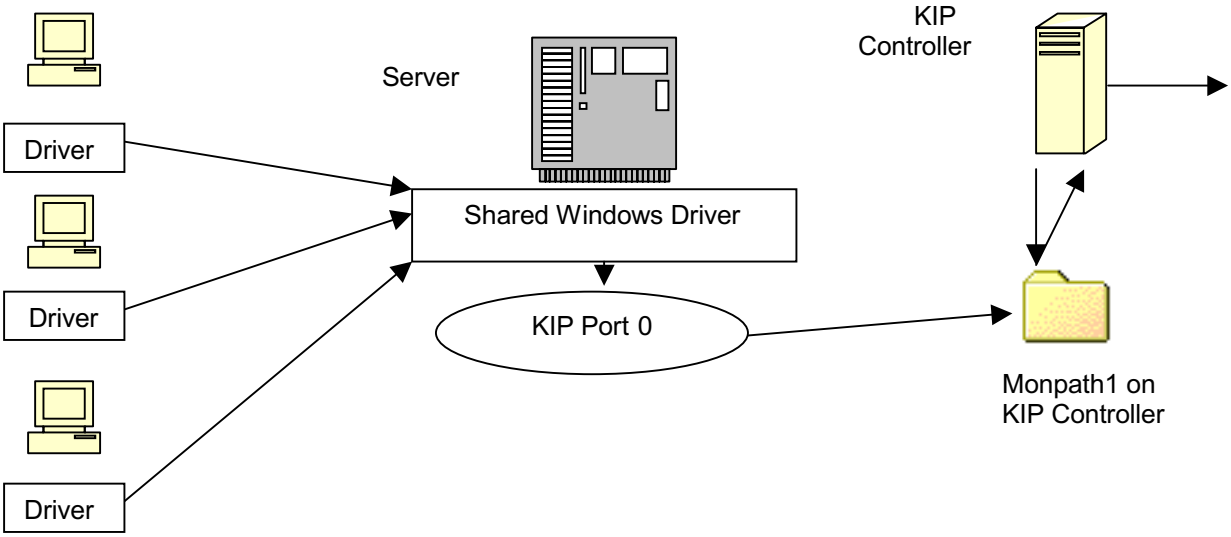


If there is not a network server, a *maximum of 10 users* can be configured to plot directly to the KIP Controller. This is a limitation of Windows NT. Each user's Username and Password must be added to the Controller's User Manager, or they will not have the appropriate permissions to write files to the KIP Controller.

If there are more than 10 users, it is time to upgrade to a server.

An unlimited number of users may spool directly to the KIP Controller if using the LPR/LPD method of spooling UNIX-based data. It is assumed compliant data will be spooled when using this method. Please see the document regarding UNIX, LPD/LPR.

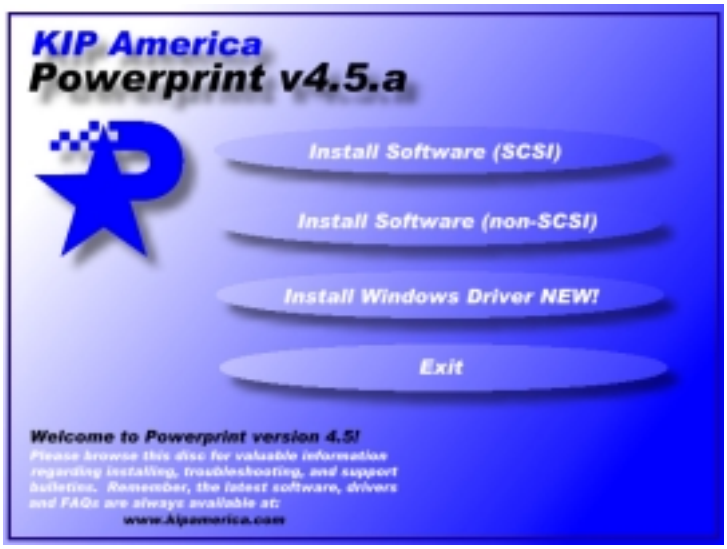
Incorrect Setup Method



Here's a common mistake. A drive has been mapped from the Ser ver to the KIP Controller (instead of the other way around). KIP Port 0 has been configured to write directly to the Monpath on the KIP Controller, instead of its own local drive. This setup seems to work, initially. A test print will print from the ser ver's printer Properties. But when users go to print, they will run into permission and other errors.

Let's Install The Driver!

Installing to a driver-free system for the first time is easy! We recommend installing at the Server. Just pop in the Powerprint 4.5.*x* software CD. If the system is set to Autostart, the following screen will open:



If the screen doesn't open automatically, just click on the CD -ROM in Explorer.

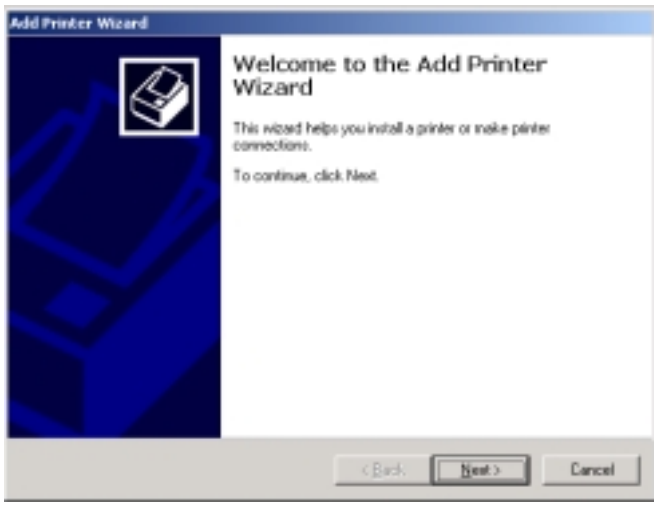
From the initial splash screen, choose Install Windows Driver. From there, a model list will be presented. Please choose the appropriate model.

At this point, the program will copy files to the hard drive, then create the KIP Port 0. The installation is complete! Note that this system works *the first time only!* If KIP Port 0 has already been created, follow the process for 'Adding A Second Printer.'

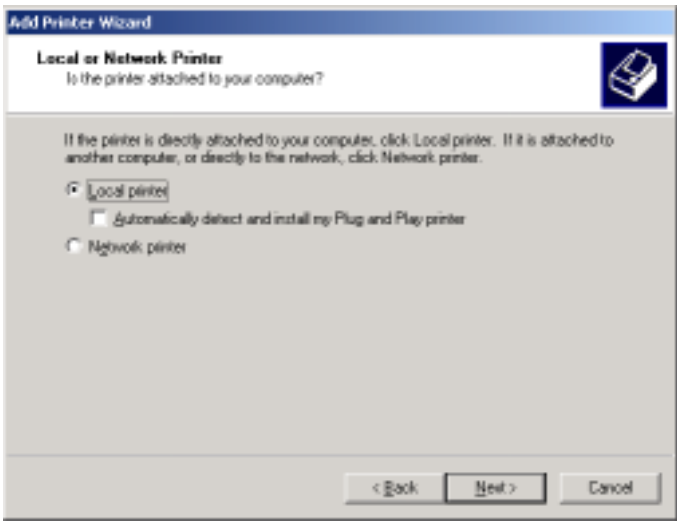
Installing the Driver for a Second Printer -- WINDOWS 2000 Example

The screenshots presented are particula r to Windows 2000. The windows from NT will be very similar.

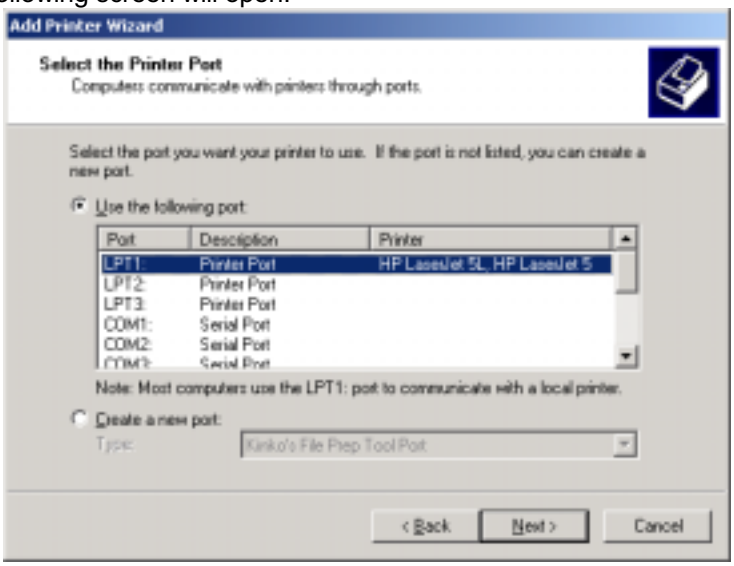
1) Go to START, SETTINGS, PRINTERS
2) Double-click on ADD A PRINTER. Click NEXT.



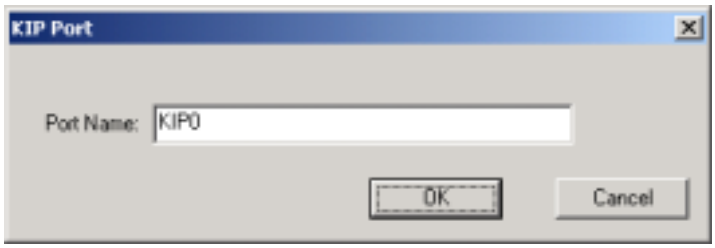
3) In the next screen, choose where the printer is installed. If the Windows driver was already installed on the serv er, and we wanted to share it at this workstation, we would choose NETWORK PRINTER. For this example, however, please choose LOCAL PRINTER. The KIP Printer is not a Plug -and-Play device, so do not check the box to automatically detect. Click 'NEXT' afte r selecting LOCAL PRINTER.



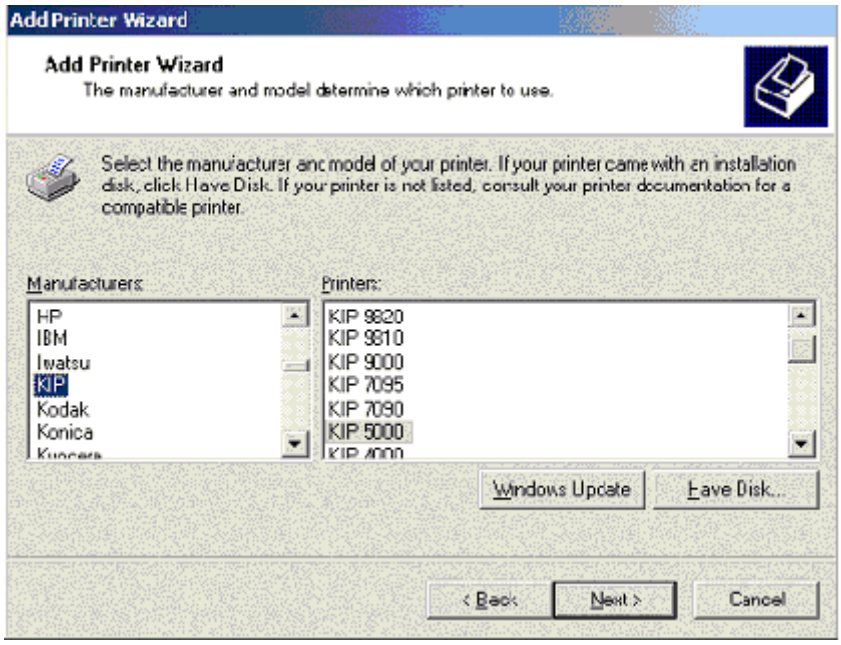
4) The following screen will open:



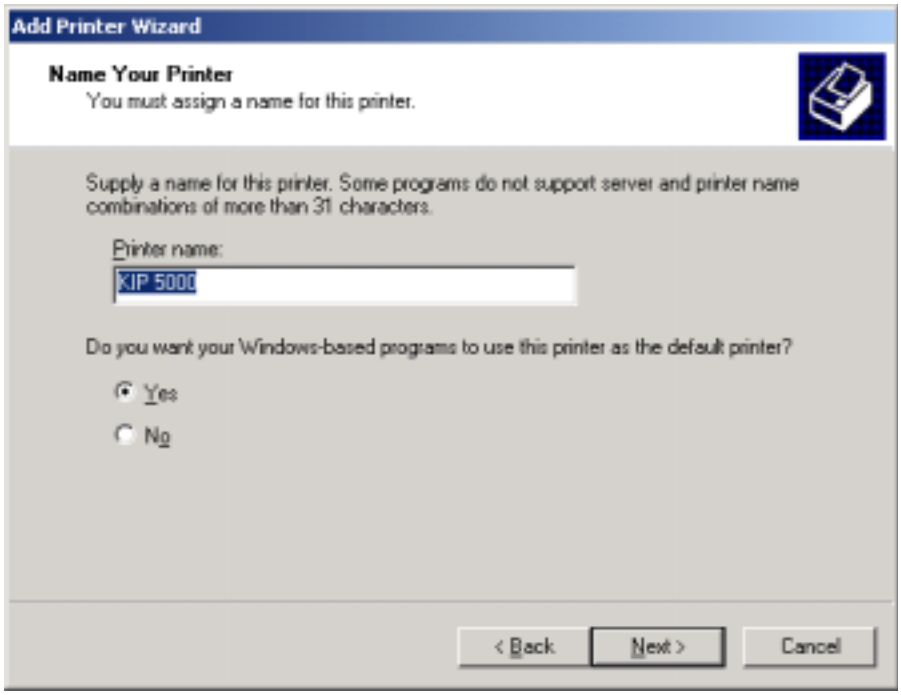
5) Select CREATE A NEW PORT. Under 'Type', choose KIP MONITOR. Click NEXT. The following screen will open:



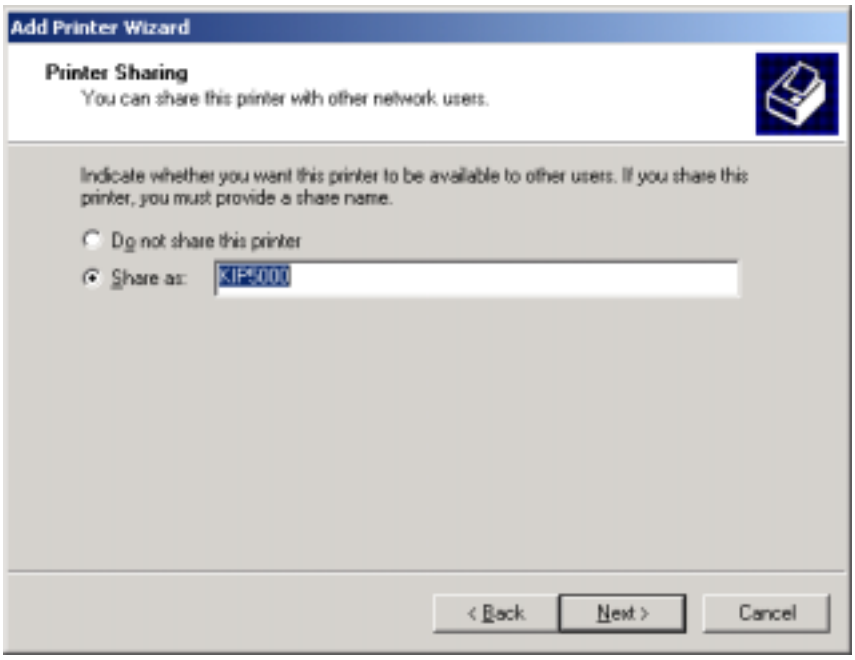
6) This port may be given a different name if desired. Click OK. It may take a few seconds before the next screen becomes available. This is normal.



7) Next, choose 'KIP' as the manufacturer, and select the Printer Model.
8) Click Next to the following screen. Assign the printer name.



9) Since this printer has been installed as a LOCAL PRINTER, the admin may choose to share it on the network. Check 'Share as' box, and click NEXT.



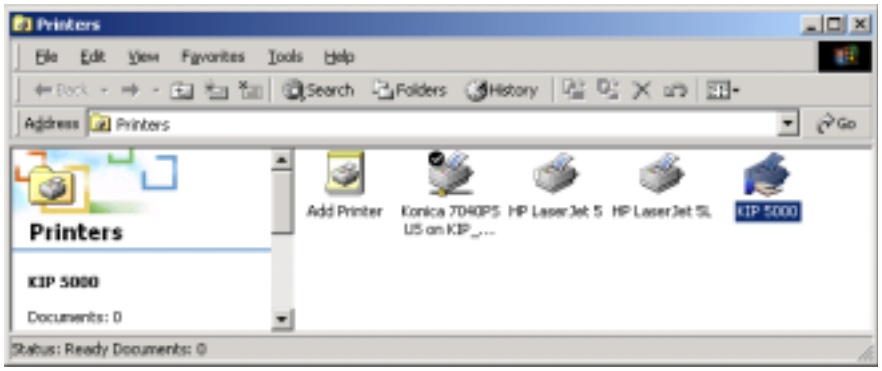
10) The test page prompt will open. Click NO and proceed by clicking NEXT.

11) Click FINISH for the program to load the driver.

12) If prompted for the .gpd file or the .inf file, please browse to the location of the files in the KAWPD folder.

13) If prompted for the "Service Pack 6" CD while trying to install *unidrv4.dll,* please browse to *c:\kawpd\winnt4\unidrv*

14) This will complete the installation o f the Printer driver on the Computer. Under 'Control Panel', "printers", the newly created printer will be listed.



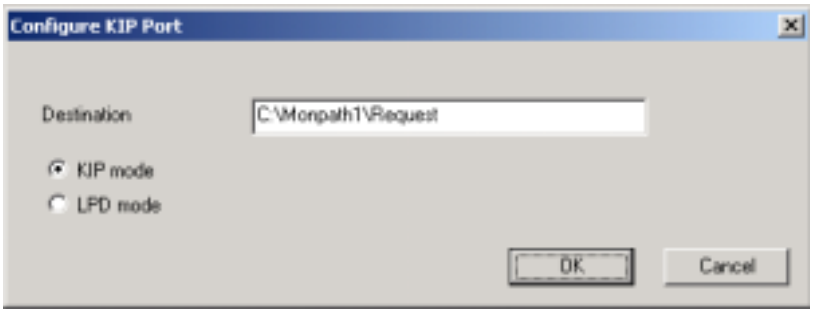
Feature Listing

1) The KIP Printer driver, by default, will create .tif files from any data (Word file, Excel file, Autocad files, etc). The output file, by default, will be converted into a Request package and be placed in the *c:\monpath1\request* folder.

2) Under CONTROL PANEL, PRINTERS, right click on the printer that was just created. Go to PROPERTIES.

3) Click on "Print Test Page". In a few seconds, a folder named with a random KIP Job Code, like VIXAWEBE or XEGUBOJA, will appear in the \monpath1\request folder. Please verify this before proceeding.

4) Click on the PORTS tab. Choose CONFIGURE PORT. The following screen opens.



5) DESTINATION: Describes the folder that is configured to process Request jobs. The default is c:\monpath1\request, but it may be tweaked for the individual configuration. In a future version of the driver, UNC naming will be available.

6) Close the PROPERTIES window. Right click on the printer icon again, but this time, choose PRINTING PREFERENCES (On WinNT, this section is called DOCUMENT DEFAULTS). From here, set media sizes, management information, header information and folder information. There is the o ption to enter Requester name, Distribution information and Description for the file. Settings for Folding Options may be set as well.

7) In general, the PRINTING PREFERENCES section allows one to make changes to the Default settings. The PROPERTIES section displays the settings previously set in the PRINTING PROPERTIES section.

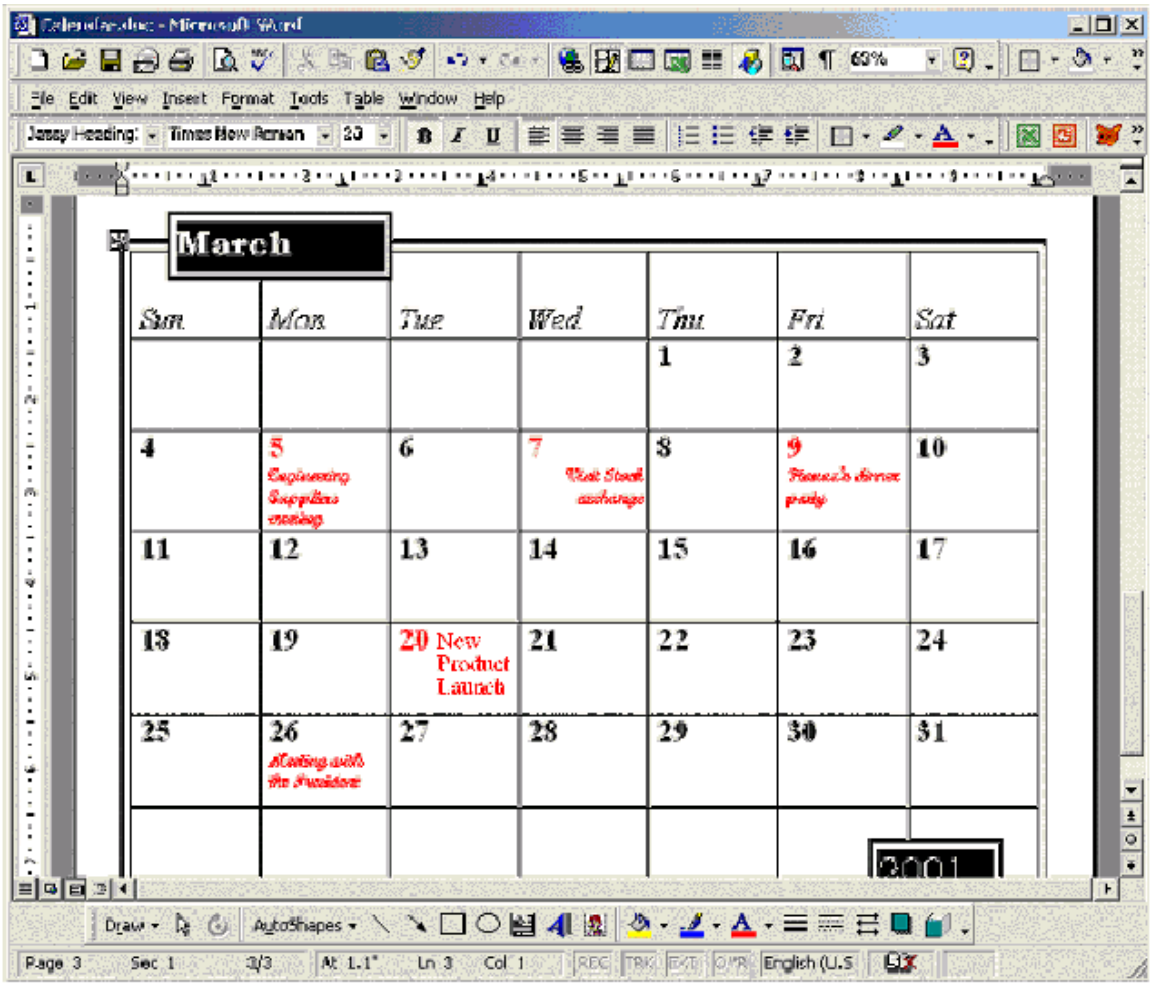
8) The installation is complete.

Using the 2-Color Printer Driver

The driver for the KIP 9020 contains the ability to print 2 colors: Red and Black. However, the dithering patterns within the driver simulate the effect of gray -shading and red-shading. These shades blend into a wide variety of browns, pinks, and other hues. Using the 2 -Color driver, any color on-screen that 'contains' some red, (yellows, oranges, pu rples) will print with red-shades.

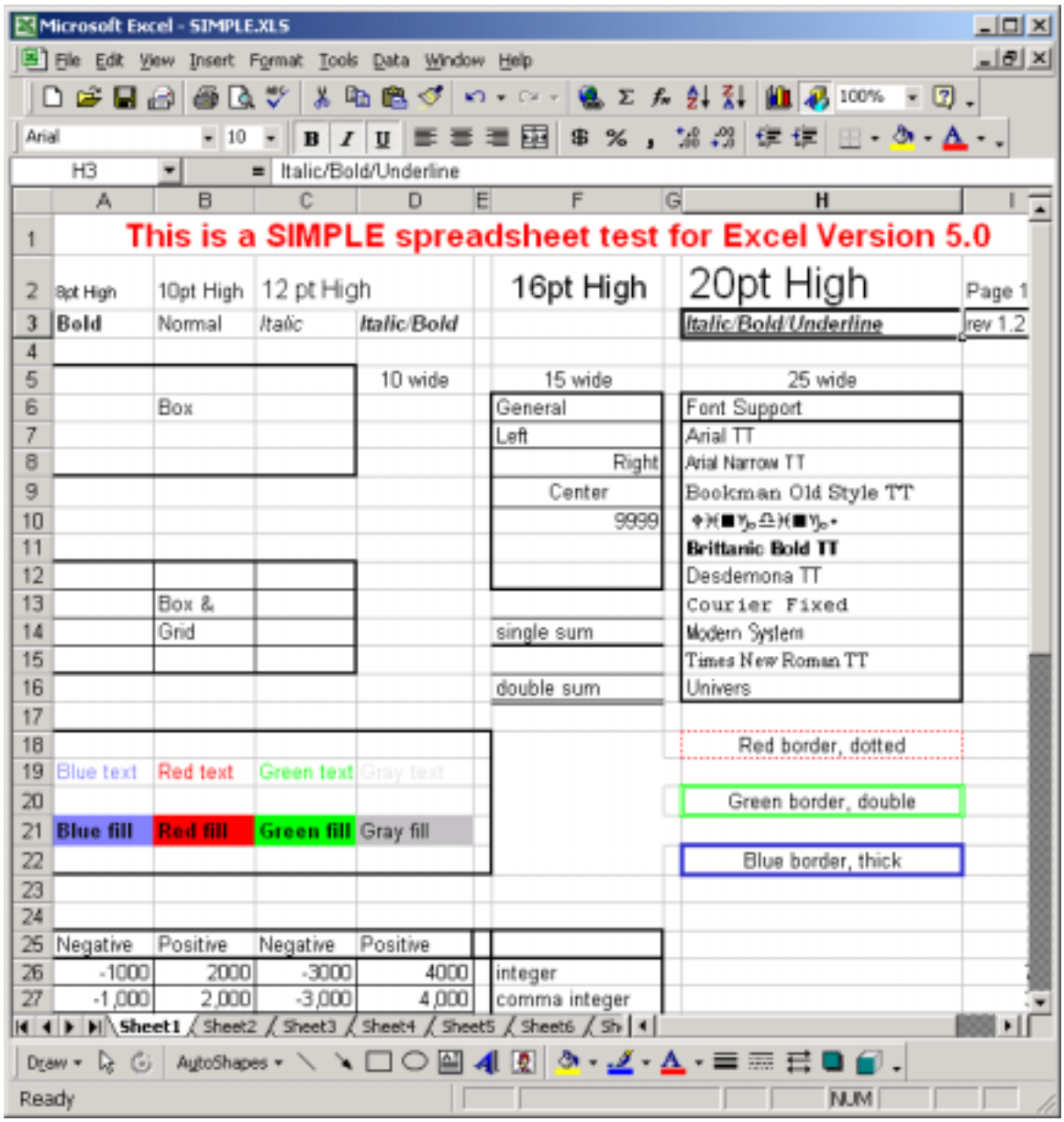
We will use the following section to illustrate the usage of RED on a scanned image as well as its usage on a drawing being printed through AutoCAD software. For our raster example image, we will utilize the editing feat ures as offered by Microsoft Word, Microsoft Excel, Spicer Imagenation LVME (large format, view, markup, edit) software and AutoCAD.

Using Microsoft WORD to introduce RED color editing on a document



In the Word document above, red text has been sele cted to make color changes. These changes will print in red when the 2-Color driver is selected.

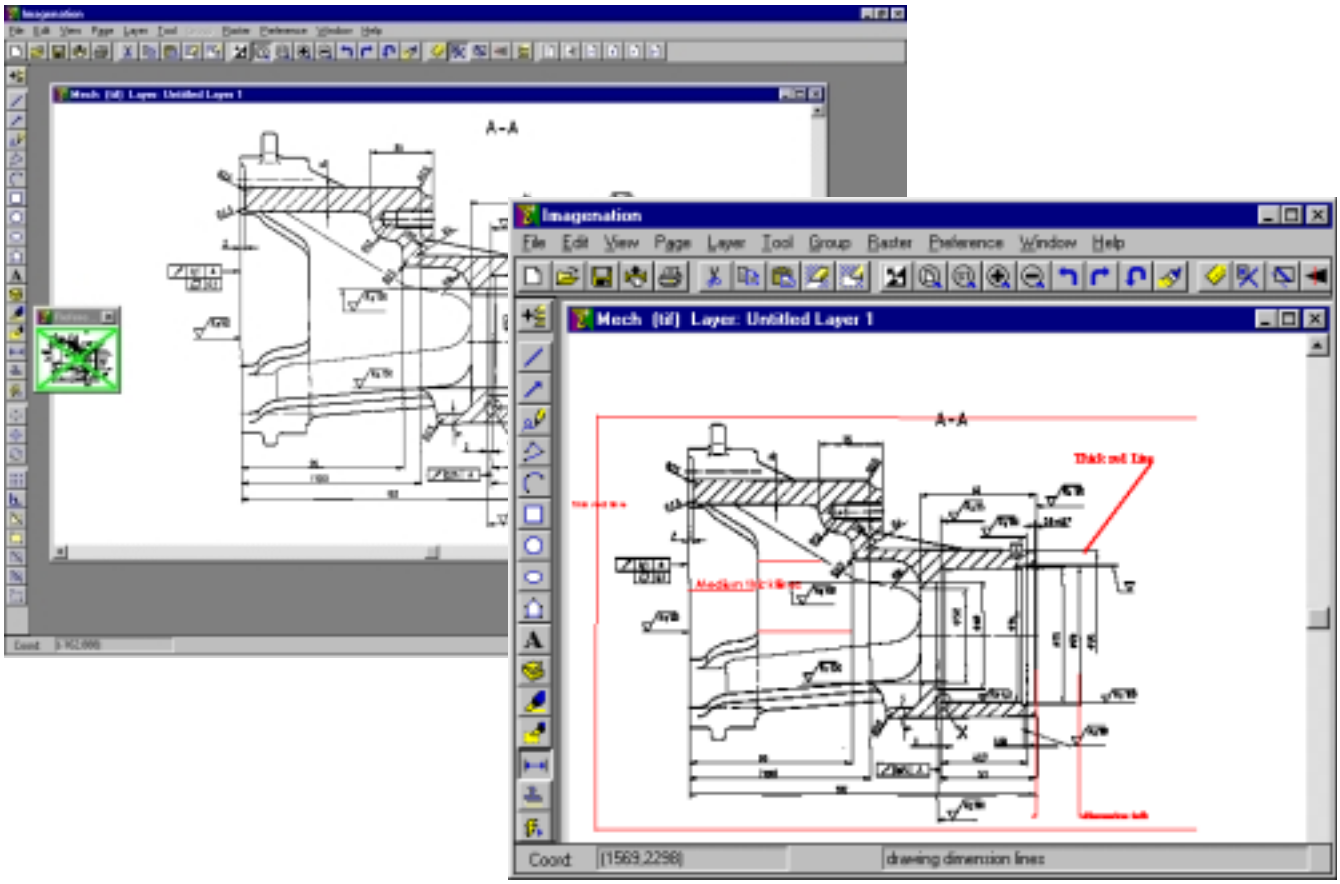
Using Microsoft EXCEL to introduce RED color editing on document.



Again, changes made with red text in an Excel document will print red. Changes ma de with colors that are variations of red will print in red -shades. When printing, choose FILE, PRINT, and choose the KIP 9020 printer driver.

Using Spicer Imagenation image editor to introduce RED color editing on the scanned image.

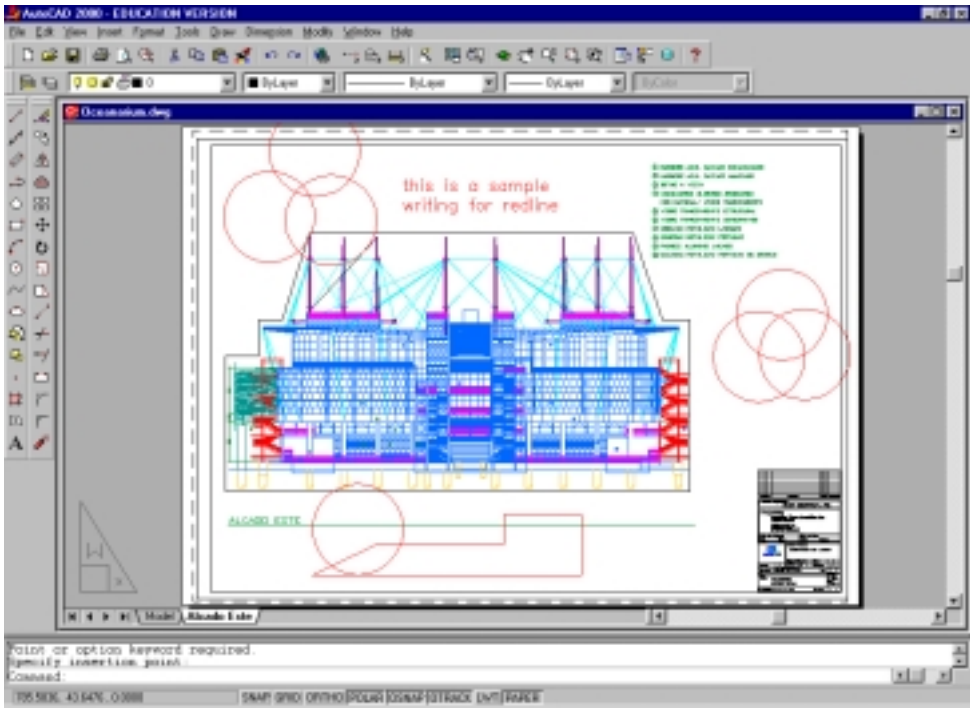
- Open a scanned image in Spicer software.
- Click LAYER, NEW, to add an editable layer on top of the scanned image



- Use edit tools to markup the image.
- Use the text function to insert text on top of the image.
- Use arrow keys, dimensions to illustrate the editing feature. Choose red for editing purposes.
- After completing the editing, go to FILE, PRINT. Choose the KIP 2 -color driver as the printing device.

Using AutoCAD 2000i editor to introduce RED color editing on the vector drawing:

- Open a drawing file (*.dwg) in AutoCAD 2000 software.
- Use editing features on the drawing to add circles, text, lines, shapes, etc



- The 2-color HDI driver for AutoCAD 2000 / 2000i could be used to print the above drawing. However, with the installation of the Windows printer driver, there is another option available. Set the KIP 2-Color windows printer driver as the default printer on the PC and use the 'System printer' inside AutoCAD to print to the 2-color windows printer driver.
- One may also use the color styles for the .ctb (color table) to print the desired pen in red.

Troubleshooting

Q: I can get a test print from the server, but my workstations get errors when they print anything.
A: See the "Correct Setup Diagram " on pg. 3. Make sure the monitor paths are configured in the correct method, and not pointing directly to the KIP controller.

Q: "The requested resource is in use."
Q: "The parameter is incorrect."
A: One instance of the driver has already been loaded. Choose ADD PRINTER and go thro ugh the process of adding a second printer with a new Port name and model type.

Q: "pathname=c:\winnt\system32\spool\drivers\w32x86" error
"sysname=c:\winnt\system32\kawntppm.dll" error
A: The KAWPD folder structure is not correct on the root of the c:\ drive. The printman.exe will not run properly from its current location.

Q: How do I get the driver to scale my drawing?
A: Currently the driver does not scale drawings. Please scale the drawing from within the Windows application.

Q: My log information does not reflect the original file name I chose to print.
A: Since the data is configured to a KIP Request, it is given the random KIP Job Code like every job out of the Request program. The original file name does not get transferred.

Q: I am unable to set up another KIP printer on KIP0.
A: The KIP Port is not sharable. Please choose a different port name like KIP1.

Q: Is the driver incapable of printing 8.5x11 or 11x17? I don't see those in my paper list.
A: 8.5x11 is called LETTER size in the driver. 11x17 is called TABLOID.

Q: The install wants me to install WinNT's Service Pack 6 CD, and I don't have one!
A: Is the program looking for unidrv4.dll? Browse to *c:\kawpd\winnt4\unidrv* and install the file from this location.

Q: I'm stuck at a DOS window! It says "GetForegroundWindow Returned xxxxx"
A: We've seen this on some Win2000 stations. There is another window behind it waiting for you to click OK. Type ALT+TAB to switch to the window below.

Manual Install – from the COMMAND LINE

To install the driver manually, here's what to do. From the software CD, copy the KAWPD (KIP America Windows Printer Driver) folder to the root of the c: \ drive of the target computer. The KAWPD folder should have at least 3 more folders i nside, representing different operating systems.

In this folder, note the "Printman" executable. This folder also contains device drivers for using this Printer driver on the Server, or on an NT or 2000 workstation. For our example, we will install this printer driver onto a Windows 2000 Professional computer.

Simply double-clicking on the printman.exe will install a driver for the 9020 2 -Color Machine. To install the driver for a different model, we'll have to do it from the command line.

To get to the command prompt, go to START, PROGRAMS, COMMAND PROMPT, or use the method for the specific operating system. At the command line, type

cd kawpd (enter) to change directories to the KAWPD folder
printman –d "KIP 5000" –n "KIP 5000" –s c:\kawpd (enter)

The **–d** argument defines the KIP model
The **–n** argument will be the displayed printer name.
The **–s** argument is the source directory of the driver files.

The –d argument may only choose one of the following hard -coded models:

"KIP 1230"	"KIP 2950"	"KIP 7090"
"KIP 2001"	"KIP 2980"	"KIP 7095"
"KIP 2002"	"KIP 3820"	"KIP 9000"
"KIP 2003"	"KIP 3850"	"KIP 9810"
"KIP 2004"	"KIP 3880"	"KIP 9820"
"KIP 2436"	"KIP 3900"	"KIP 9900"
"KIP 2710"	"KIP 4000"	
"KIP 2900"	"KIP 5000"	"KIP 9020"

Don't forget the spaces between the "KIP" and the "5000" or the appropriate model number.