SYSTEM
SOFTWARE K

KIP AutoCAD Installation and User Guide

Contents

1 Introduction

The KIP certified AutoCAD Driver provides integrated printing from within AutoDesk software applications such as AutoCAD, AutoCAD LT and DWG TrueView. The fully compatible, dedicated KIP HDI driver uses the Autodesk backbone to streamline printing of AutoCAD files. KIP's AutoCAD Driver includes unique data tracking by username and two customizable fields. Two-way printer status allows users to review roll and media information. Large files sizes and long length documents are easily generated by the KIP HDI driver and the HPGL/2 data is transmitted to KIP's System K controller for quick processing and printing.

KIP AutoCAD Driver Key Features

Fully Compatible with Current Versions of AutoCAD | True HDI AutoCAD Driver | 32 and 64 Bit Operating System Compatibility | Real Time Media Status | Custom Media Size Configuration | Media Saving by Auto Rotation | Advanced Color Mode Image Type Selection | Dither Pattern Control for B&W Lines vs B&W Aerial | Integration with KIP Job Accounting and Data Tracking
| Integration with KIP Cost Review Application

Recommended PC Specifications:

- Microsoft® Windows® 7 Enterprise, Ultimate, Professional, or Home Premium (compare Windows 7 versions); Microsoft® Windows Vista® Enterprise, Business, Ultimate, or Home Premium (SP1 or later) (compare Windows Vista versions); or Microsoft® Windows® 10
- For Windows Vista or Windows 7: Intel® Pentium® 4 or AMD Athlon® dual-core processor, 3.0 GHz or higher with SSE2 technology; for Windows XP: Intel Pentium 4 or AMD Athlon dual-core processor, 1.6 GHz or higher with SSE2 technology
- 2 GB RAM
- 1.8 GB free disk space for installation
- 1,280 x 1,024 true color video display adapter 128 MB or greater, Microsoft® Direct3D®-capable workstation-class graphics card
- Microsoft® Internet Explorer® 7.0 or later

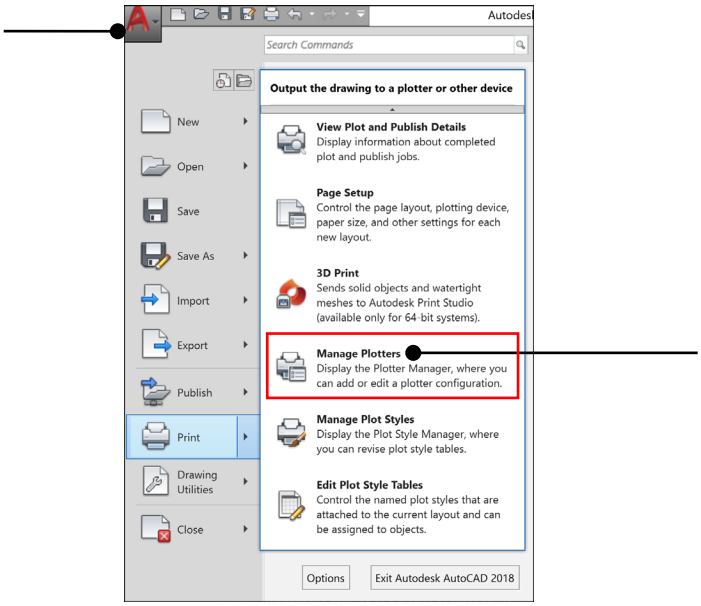
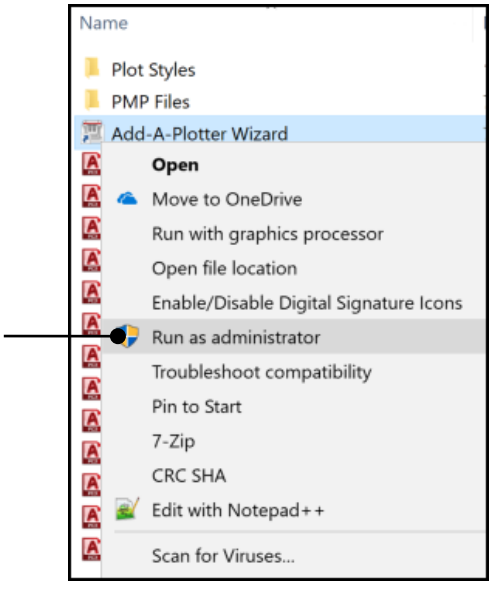
The KIP HDI driver is compatible with the following versions of AutoCAD:

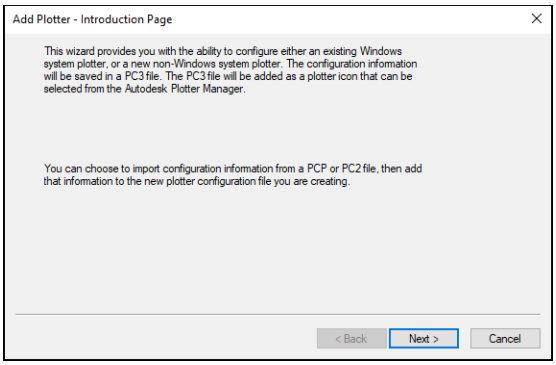
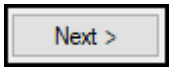
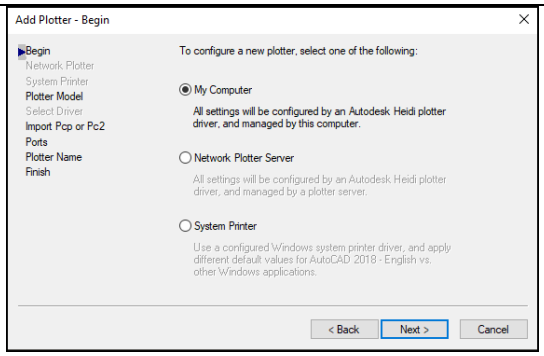
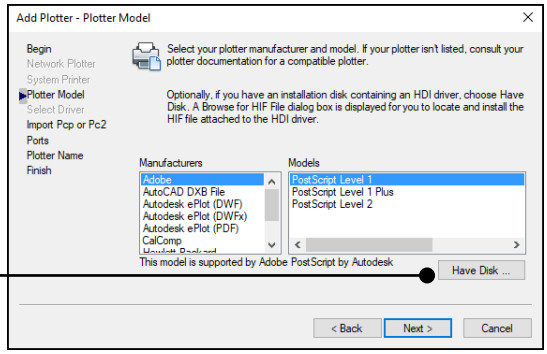
2015/2016/2017/2018/2019

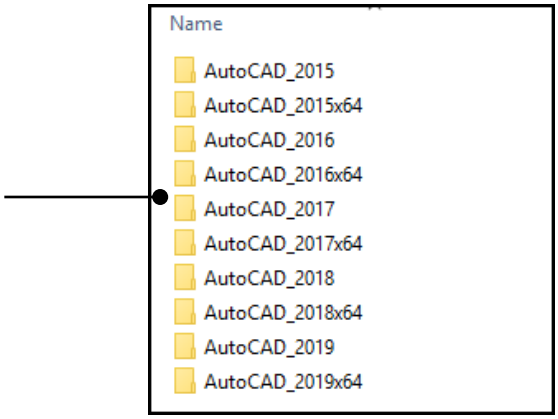
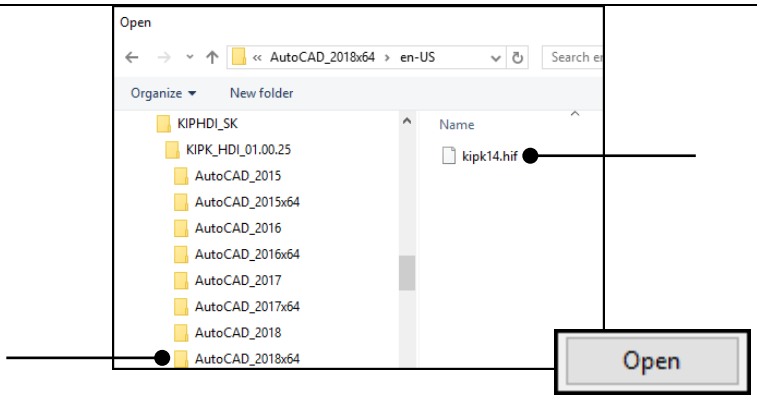
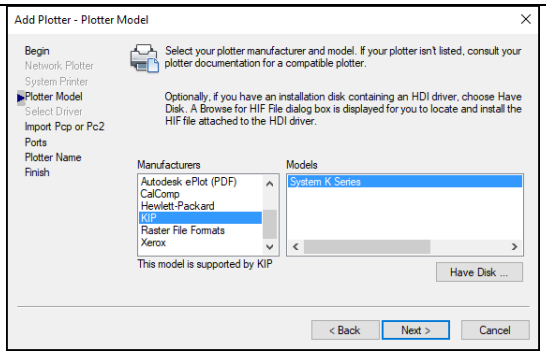
- **KIP12.hif Is used for 2015 and 2016**
- **KIP13.hif Is used for 2017**
- **KIP14.hif Is used for 2018**
- **KIP15.hif Is used for 2019**

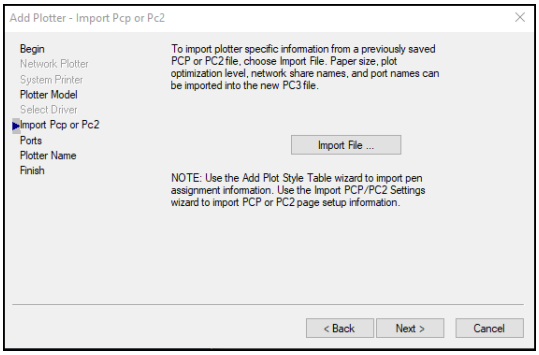
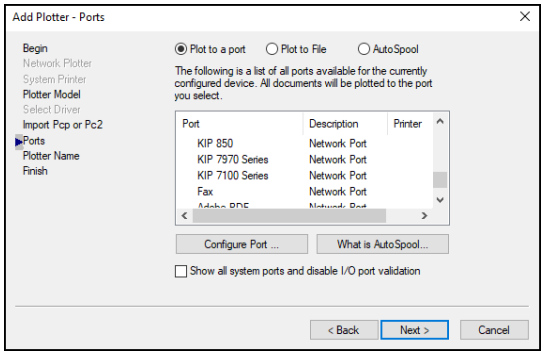
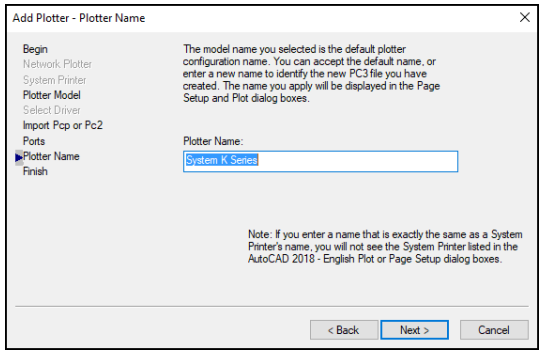
2 Installation

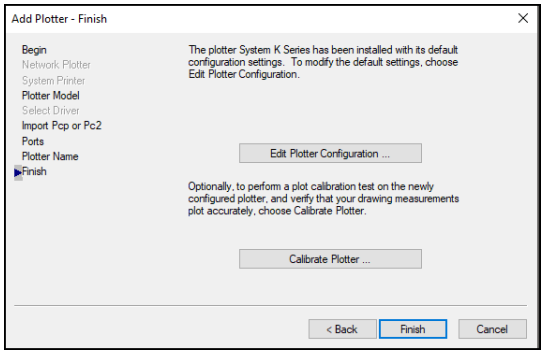
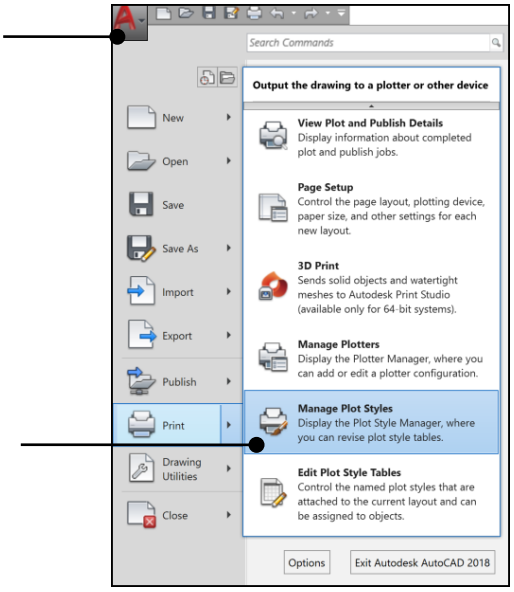
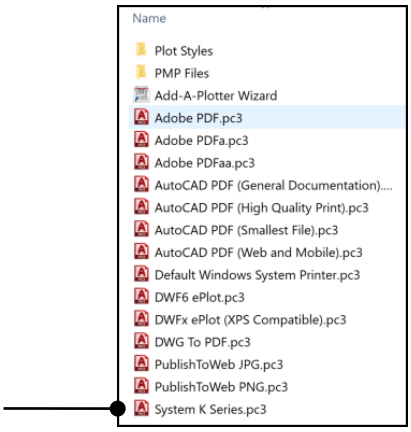
The Following section describes the Installation of the KIP System K AutoCAD Driver®. Please follow the Step-by-step procedure for correct installation.

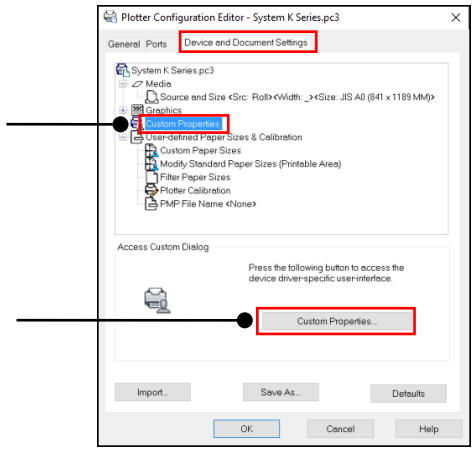
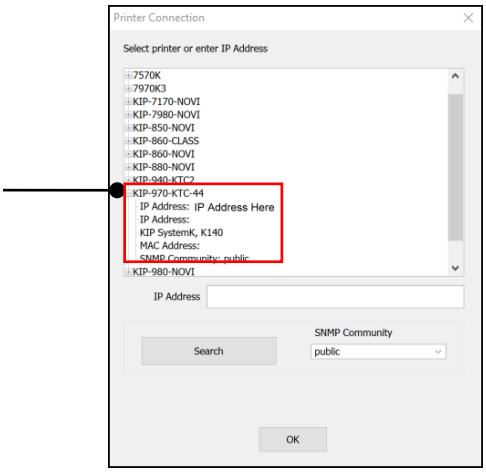
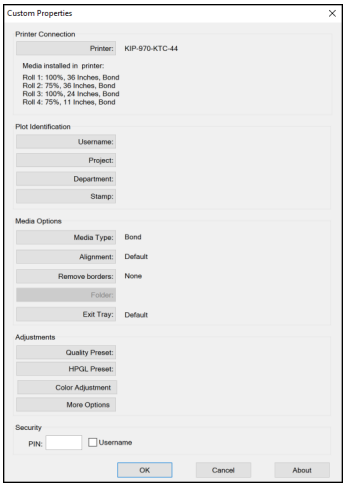
Step	Action	Illustration
1.	Open the AutoCAD Application. Once open, select the red “A” in the top left corner and then mouse over “Print”. Select “Manage Plotters”	
2.	The Plotter Manager window will open. Once open select “Right Click” on Add-A-Plotter Wizard and select “Run as Administrator”.	

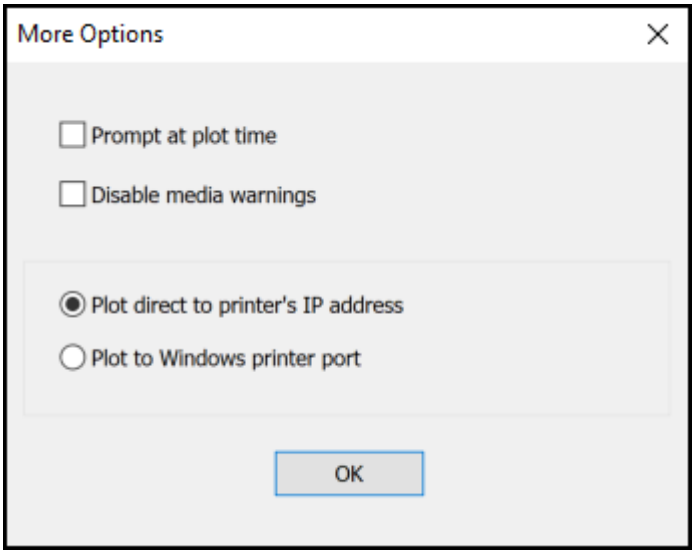
Step	Action	Illustration
3.	The next window is the Driver introduction page.	
4.	Select Next to Continue.	
5.	When the Add Plotter window opens, select “My Computer” and then “Next” to continue.	
6.	The Next screen displays the Plotter Manufacturers and Models. Select the “Have Disk” button to load the KIP AutoCAD driver and add KIP to the Manufacturers list. **Note: do not select “Next” this will install the KIP AutoCAD driver incorrectly as Adobe Postscript Level 1 is selected.**	

Step	Action	Illustration
7.	Browse to the location of the KIP AutoCAD Driver install package. Select the folder that contains the correct version of AutoCAD. **Note:** The Driver can be downloaded from the KIP Website, The KIP Software and Operations Guide disc or from the KIP Printer through KIP PrintPro.Net.	
8.	When the folder opens, select the folder that contains the proper language. **Note:** For this example, English US will be selected.	
9.	Select the KIP AutoCAD Driver file and select open. In this instance AutoCAD 2018 X64 has been selected so the kip14.hif is the correct driver.	
10.	KIP has now been added to the Manufacturers list. Select the KIP and then select KIP System K Series. Select the “Next” button.	

Step	Action	Illustration
11.	Nothing needs to be done on this page. Select “Next” to continue.	
12.	On the Ports page, choose either the **KIP Windows Driver port** or if you plan to print direct to the KIP via IP Address, choose **LPT1**. Later on in the Properties menu, you will choose the IP Address (Step #18) Select “Next” to continue. **Note:** If you plan to print direct to the IP Address of the KIP is **not** necessary to have the KIP Windows Driver loaded at this point for the HDI driver to function.	
13.	On the Plotter name page, enter a name that will easily be recognized as the KIP AC Driver. Select “Next” to continue.	

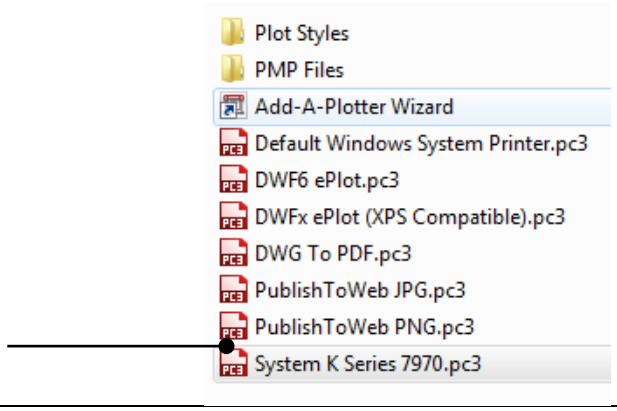
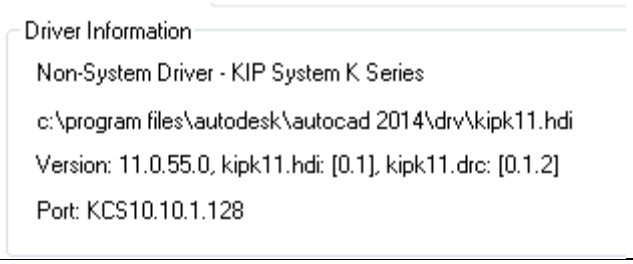
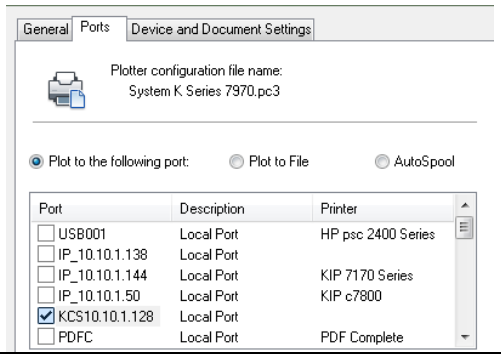
Step	Action	Illustration
14.	Nothing needs to be done on this final installation window. Select “Finish” to continue.	
15.	To link the AutoCAD driver to the KIP so that Accounting may be used, select the red “A” in the top left corner and then mouse over “Print”. Select “Manage Plotters”.	
16.	The Plotter Manager window will open. Once open, double-click the newly added KIP System K Series driver.	

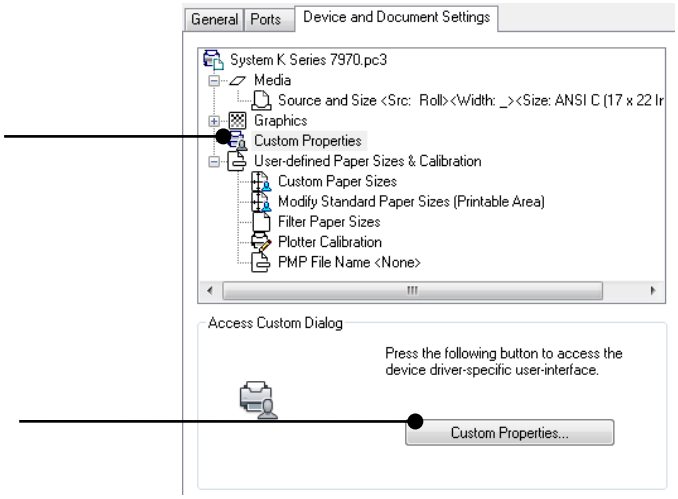
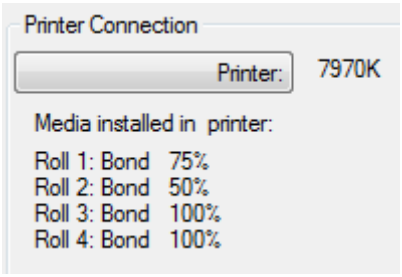
Step	Action	Illustration
17.	When the Plotter Configuration window opens select the “Device and Document Settings” tab. From the options available select “Custom Properties” entry and then the Custom Properties button.	
18.	This will search the Network and load all available KIP System K Printers. Select the desired printer connection (IP Address) and select “OK”.	
19.	This will automatically make the connection to the KIP. **Note:** Connection is established as indicated by the Printer and Roll information now being displayed.	

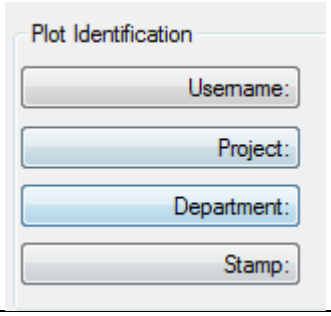
Step	Action	Illustration
20.	Selecting More Options will open a new window. Here there are few more options. • **Prompt at plot time** – Will open a window allowing adjustments to be made prior to plotting. • **Disable media warnings** – If selected, the AC driver will not report media errors that may occur during printing. • **Plot direct to printer's IP Address** – When selected will print directly to the KIP Printer via IP Address. • **Plot to Windows printer port** – When selected will use the KIP Windows Driver Port for printing.	

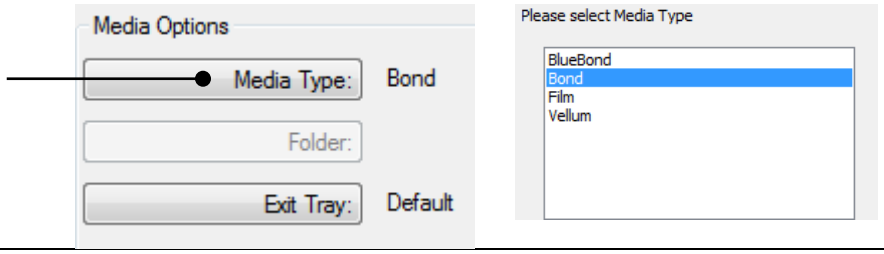
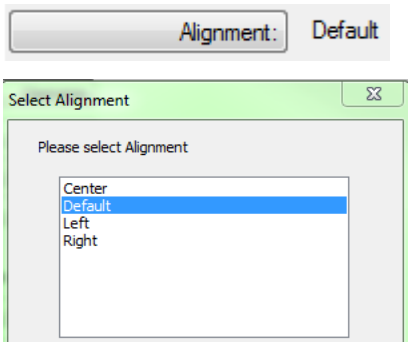
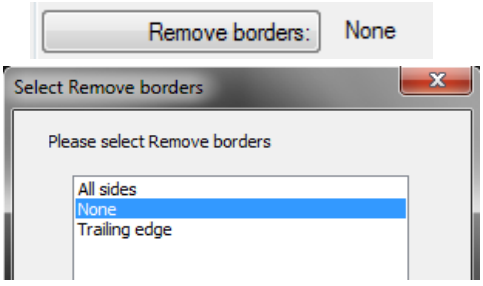
3 AutoCAD Driver Functionality

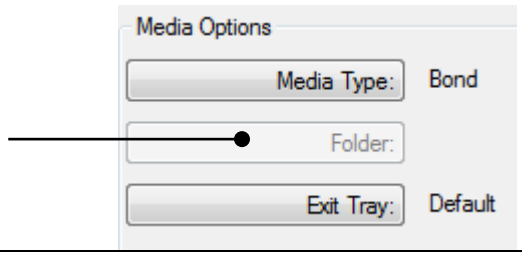
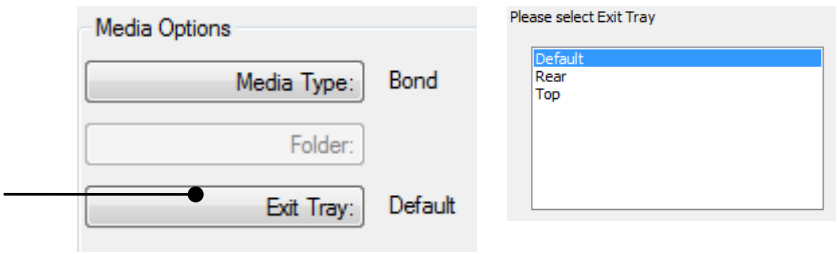
The following section will explain the functionality of the KIP AutoCAD (HDI) Driver.

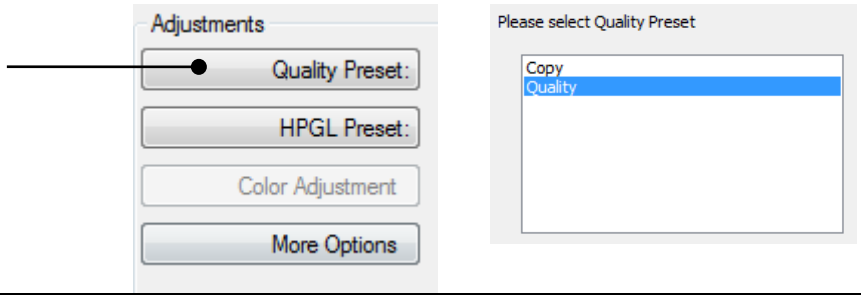
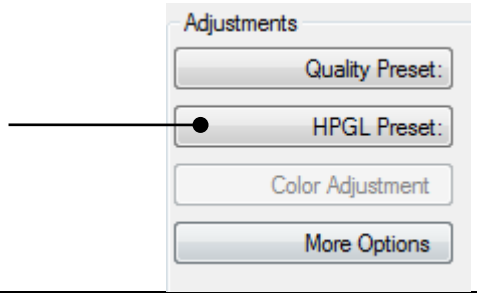
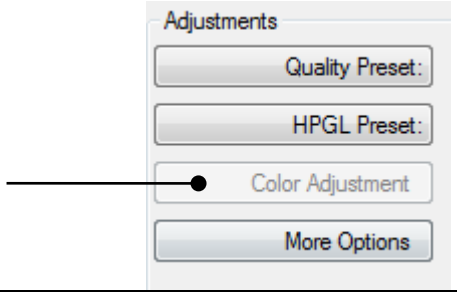
Component	Function
1. Manage Plotters	 Open the Manage Plotters window and Double Click the KIP AC driver that has been installed.
2. General Tab	 Displays the Driver information, version and Port being used.
3. Ports	 Displays the current port the KIP AC Driver is attached to.

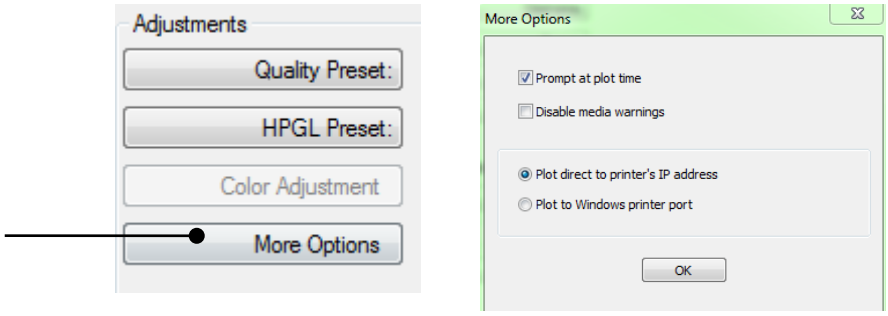
Component	Function
4. Device and Document Settings	 Select the Custom Properties designation and then the Custom properties button to enter the settings window for the driver.
5. Printer Configuration	 Displays the connected KIP Printer and gives a active status of the KIP Printer including: • Printer Connection • Media installed • Media Staus (in 25% increments) • Displays printer errors Selecting the Printer button will open a window showing all printers on the network.

Component	Function
6. Plot Identification	
	Used in environments where job costing or department allocations are required for prints on the KIP. They can also be useful for print identification and print distribution as this information can be placed in a header. Fields that can be tracked: • **Username** - This button allows the user to select a predetermined User Name from a drop-down list or manually type a name. This field may be configured to be mandatory and password protected. • **Project** - This button allows the user to select a predetermined Project Number from a drop-down list or manually type the Project Number. This field may be configured to be mandatory and password protected. • **Department** - This button allows the user to select a predetermined Department from a drop down or manually type a department. This field may be configured to be mandatory and password protected.

Component	Function
7. Media Options – Media Type	 Control the Media type to be sent with the current job by selecting the desired media. Click the Media Type button to get a list of available medias.
8. Media Options - Alignment	 Allows for selection of allignmet of image, Left, Right or Center. Default is Left.
9. Media Options – Remove Borders	 Allows for the removal of borders on All Sides, Trailing Edge or None.

Component	Function
10. Media Options - Folder	 Folds the print according to the fold patterns configured on the KIP. Please note that the optional folder must be installed for this action to occur.
11. Media Options – Exit Tray	 Exit Tray allows for the selection of stacking to Default, Rear or Top. **Default** - Prints to the top or rear as set up as the default exit tray (no manual selection necessary). **Top** - Top of the KIP Printer (on available models). **Rear** - Ejects out the back of the printer.

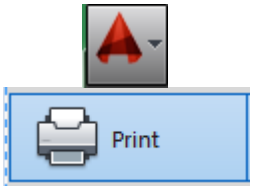
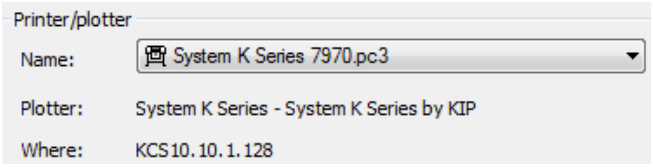
Component	Function
12. Adjustments – Quality Presets	 Allows for the selection of Quality Presets (setup through KIP PrintPro) to be applied to the current job from AC.
13. Adjustments - HPGL Preset	 Allows for the selection of HPGL Presets (setup through KIP PrintPro) to be applied to the current job from AC.
14. Adjustments – Color Adjustment	 Allows the user to select between Simple and Advanced printing modes giving more or less options to choose from.

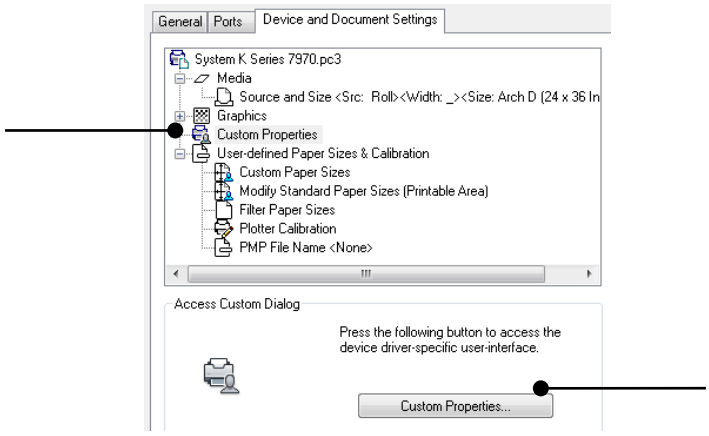
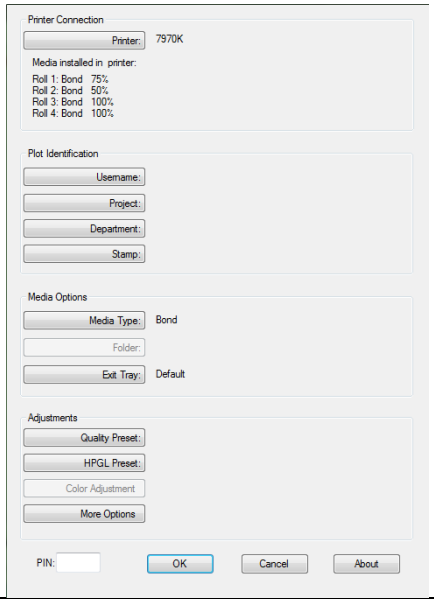
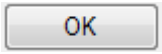
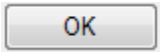
Component	Function
15. Adjustments – More Options	
	Selecting More Options will open a new window here there are few more options. • **Prompt at plot time** – Will open a window allowing adjustments to be made prior to plotting. • **Disable media warnings** – If selected the AC driver will not report media errors that may occur during printing. • **Plot direct to printer's IP Address** – When selected will print directly to the KIP Printer via IP Address. • **Plot to Windows printer port** – When selected will use the KIP Windows Driver Port for printing.
16. Pin	
	Pin printing allows a user to enter a four digit pin into this location prior to printing. When this job arrives at the Print Queue it will be placed into a hold pattern. This job cannot be printed or removed from the Queue without entering the original PIN. **Note:** This will not hold up the Print Queue as other jobs will move ahead of this job until it is released. This gives greater security to jobs being printed.

4 Using the KIP AutoCAD Driver

The Following section describes using the KIP AutoCAD Driver® from the AutoCAD Application. Please follow the Step-by-step procedure for correct usage.

For this example AutoCAD 2014 was used.

Step	Action	Illustration
1.	Open the AutoCAD Application	
2.	Click on the “A” in the top Left corner. When the Drop down window opens select Print.	
3.	Select the KIP Printer Driver From the available printers list. **Note: If the KIP Windows driver is also installed this will appear first in the list of printers. Be sure to scroll down to the newly installed AutoCAD KIP HDI Driver.**	
4.	To use the available options, select the Properties button.	

Step	Action	Illustration
6.	Select the Custom Properties designation and then the Custom Properties Button.	
7.	If any changes need to be made they can be made here. **Note:** Under “More Options” there is a selection for “Prompt At Plot Time”. If this setting is selected a variation of this window will automatically open prior to printing. This eliminates the need to go through this step here.	
8.	Select OK when finished	
9.	Select “OK” to send the File to the KIP Printer.	

5 Appendix A

KIP Track Features - Variables

Specialized names or masks can be used for the KIP Track data fields in the Custom Properties of the KIP AutoCAD Driver (User Name, Job Number, and Description)

Both the User Name and Job Number fields by default are recorded into the KIP Track log. The Job Number field can then be the key field used to query Production Reports directly from the KIP Unattend software. The KIP Controller log can also be imported into any program that can read ASCII data.

Specialized Mask Names and Rules

These customized names can be assigned to the mask elements using all normal methods.

Dwgname and dwgpath are the only two variables that can be set.

Example:

AutoCAD reports original file path of drawing named "R300-20.DWG" and the path that the file is stored in as:

C:\Program Files\AutoCAD 2006\drawings\R300-20.DWG

If mask item is set to:

Dwgname logged is “R300-20”

Dwgpath logged is ‘C:\Program Files\AutoCAD 2006\drawings\R300-20.DWG”

dwgpath=x\x\x\x\x where = sign and following is optional mask to select path elements.

x replaced by # includes that element of path to be used in accounting data.

dwgpath=x\#\x\x logged is ‘Program Files’

dwgpath=x\#\# logged is ”Program Files\AutoCAD 2006”

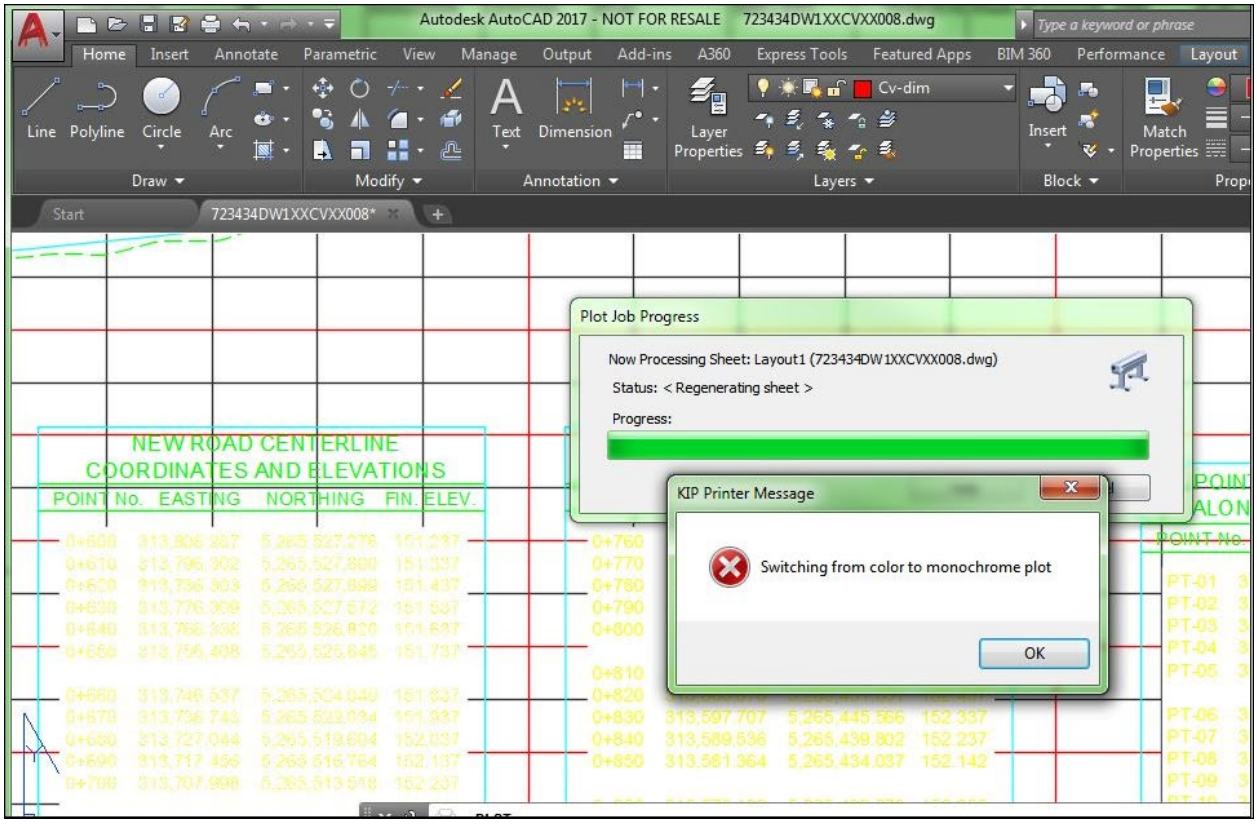
6 Appendix B

Using Role Based Access Control (RBAC) with the KIP AutoCAD Driver

If the RBAC is being used to create specific roles for individual users these roles will apply when printing from AutoCAD as well.

There are two main Roles that can be applied to the AutoCAD (HDI) Driver Color User and B&W User. If a role is created (using the KIP Accounting Center application) and is then assigned to a user's login they will only have these abilities when printing from AutoCAD. The bellow screen shots show what happens if the user does not have the rights to print in either B&W or Color.

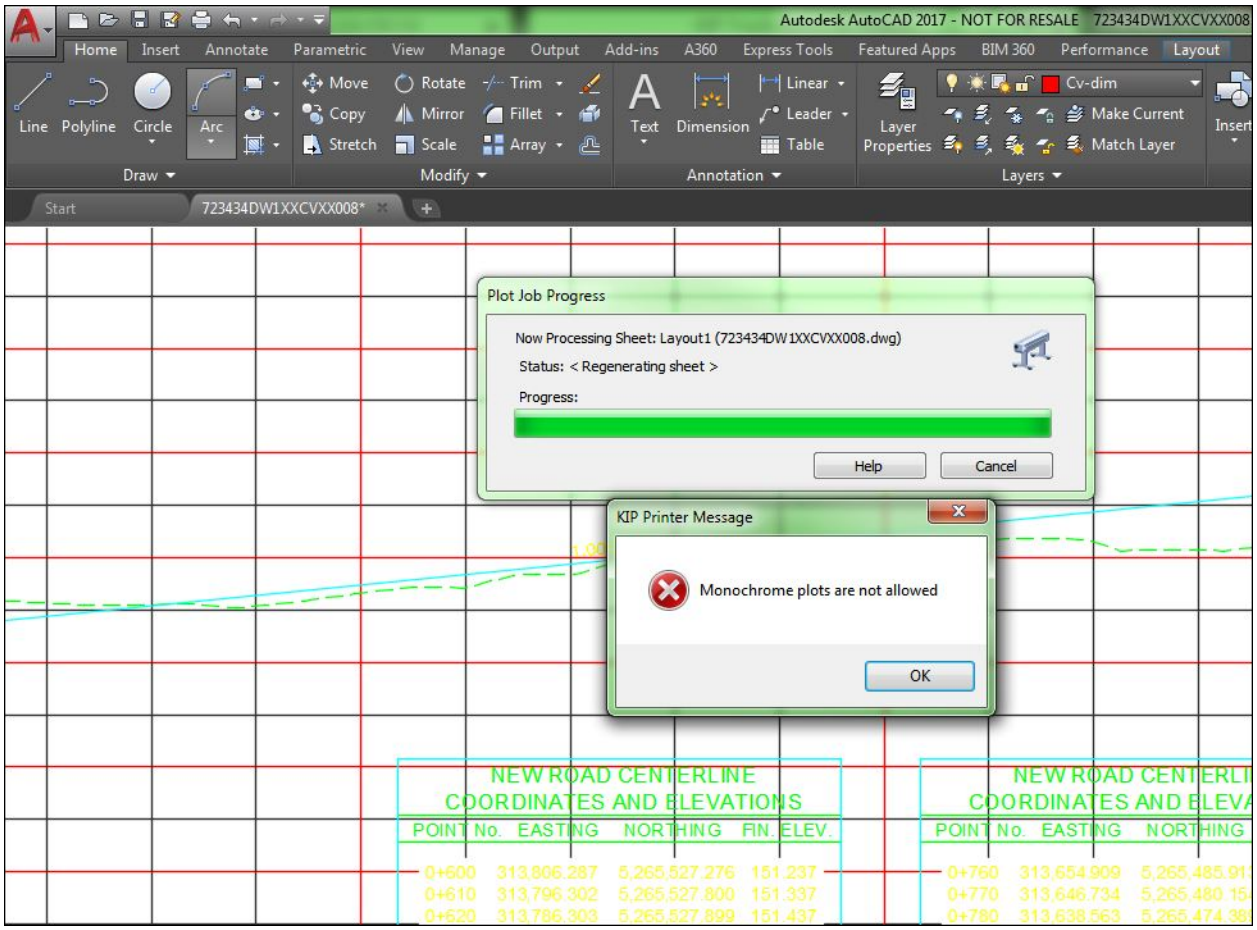
Black & White Only User – This user only has the ability to print with B&W output. When a Color File is selected and then the user tries to print in color mode the following message appears:



The output will be switched from Color to B&W.

Color Only User – This user only has the ability to print with Color output. When a Color File is selected and then the user tries to print in B&W mode the following message appears:

The user is notified they are not allowed to print monochrome plots and the job is cancelled. This can then be sent as Color.



7 Appendix C

Setting the SNMP Community String

The **SNMP** Read-Only **Community String** is like a password. It is sent along with each **SNMP** Get-Request and allows (or denies) access to device. The KIP Printer is shipped with a default password of "public". (This is the so-called "default public **community string**".) Starting with The KIP AutoCAD driver version 1.0.16 the community string can be set to something other than “public”.

When installing the driver and setting up the printer connection there is now a box for SNMP Community. The user may enter a new community string here instead of the default “public”. Once set, the driver will remember the setting.