

## Chapter 8

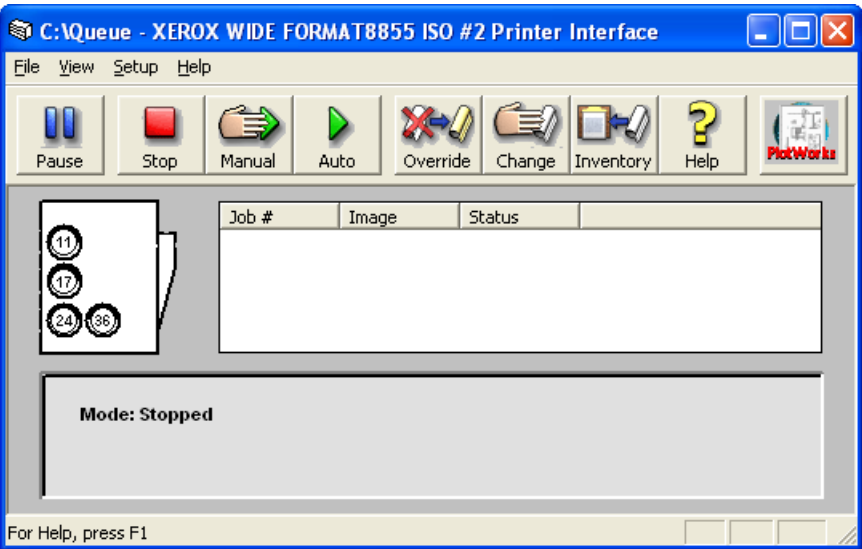
# The Printer Interface

The Printer Interface prints processed jobs sent from the Queue. Options available for each Printer Interface differ depending on the printers capabilities.

The Printer Interface provides real-time feedback on the job printing, any errors that occur, and the media loaded. Other features include:

- A print queue displaying the print status of jobs printing and scheduled to print.
- A printer display showing pages printing, the media drawer contents, and the location of printer errors depending on the printers capabilities.
- High-speed printing recovery when jams or other errors occur.
- A printer information box showing the printing mode, the job and drawing printing, error descriptions, and more.

### 8.1 Printer Interface window



Each printer has its own Printer Interface. You can operate a lower end printer from a higher end Printer Interface if they use the same connection. For example, if an 8825 and an 8850 printer are attached to a Gecko v2 card, the 8850 Printer

Interface can operate the 8825 printer. However if you attempt to operate the 8850 printer from the 8825 Printer Interface an error message appears indicating that this is not possible.

## The Printer Interface Window

### The Toolbar Buttons

The following buttons appear on the Printer Interface toolbar:



- **Pause/Resume Printer:** Click this button to pause the printer. When this button appears depressed and the text Paused appears in the Information box the printer is paused. Deselect this button to resume printing.



- **Stopped Mode:** Click this button to stop printing completely.



- **Manual Mode:** Select this mode to manually print jobs. Only jobs with a priority of Print Next or Print Immediate are then printed without operator intervention.



- **Automatic Mode:** In this mode the Printer Interface automatically prints jobs sent from the Queue in the order of priority.



- **Override Media:** Is used to override the medium requested when it is not loaded. The job is instead printed on the next best media.



- **Media Change:** Is used to select the correct medium when a Multiple Match error occurs. This happens when the medium loaded in the printer matches more than one type of media in inventory. Select this button to select the media actually loaded.



- **Media Inventory:** The media inventory lists the media types and sizes in stock. If an incoming job ticket requests a media type in stock, but not loaded, the Printer Interface stops and requests the media. Select this button to view, add, delete or edit entries, in media inventory.



- **Help:** Opens the Printer Interface Help file.
-

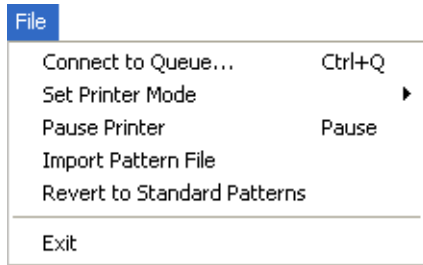
## The Menu Options

### The File Menu

The File menu contains options related to starting and stopping the printer and connecting to a Queue.

8.2

File menu



The following options are available from the **File** menu:

- **Connect to Queue:** Connects the Printer Interface to the selected Job Queue. The Printer pulls jobs from this Queue.



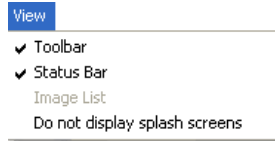
*If a new or different Queue is selected, a dialog box appears prompting you to close and reopen the Printer Interface for the Queue change to take effect. Select Yes the Printer Interface automatically closes and reopens.*

- **Set Printer Mode:** Clicking this option opens a sub menu where you can select printer modes. More information on printer modes are available under “Set Printing Modes” on page 8-28.  
A check mark next to a mode option indicates the mode currently selected.
- **Pause Printer:** Select this option to pause the printer after the current image, if applicable, finishes printing.
- **Import Pattern File:** Select this option to import a Pen Pattern file. For more information see “Importing Repro Desk Pattern Files” on page 14 of Appendix G.
- **Revert to Standard Patterns:** Select this option to revert to the default Pen Pattern file. For more information see “Importing Repro Desk Pattern Files” on page 14 of Appendix G.
- **Exit:** Closes the Printer Interface.

## The View Menu

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8.3  
*View menu*



The **View** menu contains display options for the Printer Interface.

The following items are available under the View menu:

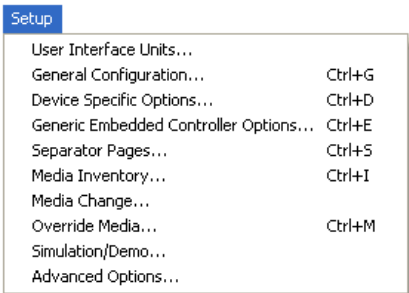
- **Toolbar:** Hides or shows the toolbar.
- **Status Bar:** Hides or shows the status bar.
- **Image List:** This option is unavailable.
- **Do not show splash screens:** Select this option to disable the splash screens. Splash screens are the windows that appear briefly when PlotWorks applications are first launched. The splash screens are disabled by default.

## The Setup Menu

This menu is used to configure your printer, folder (if applicable), and media inventory.

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8.4  
*Setup menu*



The following items are available under the **Setup** menu:

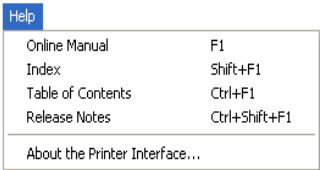
- **User Interface Units:** Is used to select the units of measure for the Printer Interface.
  - **General Configuration:** Is used to configure general printing options, such as imaging memory, print notifications and device number. (Ctrl + G)
  - **Device Specific Options:** Is used to configure options specific to your printer model, including folder setup and scanner control. (Ctrl+D)
-

- **Generic Embedded Controller Options...:** This option is designed for advanced users. Selecting this option opens the Generic Embedded Controller Options dialog box which is used to specify embedded controller commands specific for each device. These include commands that allow PlotWorks to communicate which media roll to use as well as commands that manipulate print output. Commands that are recognized here differ from printer to printer. Please consult your printers manual for more information on what embedded controller options are supported by your printer. (Shortcut: Ctrl+E)
- **Separator Pages:** Is used to configure and print a separator page between sets and jobs. (Ctrl+S)
- **Media Inventory:** Is used to view, add, edit, or delete entries in media inventory. (Ctrl+I)
- **Media Change:** Is used to select the correct medium when a Multiple Match error occurs. This occurs when the medium loaded in the printer matches more than one type of media in inventory. (Ctrl+M)
- **Override Media:** Is used to override the medium requested when it is not loaded. The job is instead printed on the next best media
- **Simulation/Demo:** Opens the Simulation Options dialog box used to set simulation printing options. When the printer is in simulation mode, you can set up hypothetical media drawer contents and printer errors. The Printer Interface displays paper moving through the printer, but no jobs are actually printed.
- **Advanced Options:** Clicking this menu item opens the Advanced Options tabbed dialog box. Refer to “Advanced Options” on page 8-33 for more information on options available here.

### The Help Menu

#### 8.5

#### Help menu



Help	
Online Manual	F1
Index	Shift+F1
Table of Contents	Ctrl+F1
Release Notes	Ctrl+Shift+F1
About the Printer Interface...	

The **Help** menu contains information about the Printer Interface.

The following options are available under **Help**:

- **Online Manual:** Opens this chapter. (F1)

- **Index:** Displays the help topics index. (Shift+F1)
- **Table of Contents:** Displays the online manual table of contents. (Ctrl+F1)
- **Release Notes:** Displays the latest product release notes. (Ctrl+Shift+F1)
- **About:** Displays program version and copyright information

## The Printer Diagram

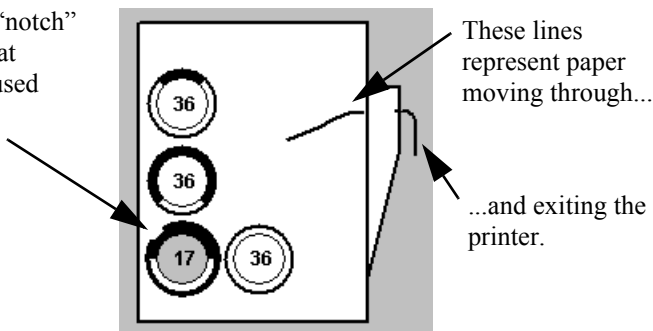
The printer diagram displays real-time printer activity. It shows the location of prints in the printer (on most printers), media drawer contents, and printer errors. The printer diagram varies depending on the printer. *When the Printer window is maximized, the media rolls display more comprehensive information about the media type, size, and errors.*



*Embedded Generic Controller Printers don't have the bidirectional communications necessary for real-time feedback, so paper moving graphics are not displayed.*

8.6  
Sample  
printer  
diagram

The rotating “notch” indicates what roll is being used



The media rolls and trays in the printer diagram display the type, size, and amount of media in the drawer. The number in the center of the roll is the medium width. The color of inner circle represents the media type. The white outer circle represents the percentage of medium remaining.

For example:



This drawer contains 36 inch bond. The roll is 50-75% full.

The center color of the “roll” indicates the media type. Bond is white, Vellum is gray, T-Bond is green, and Mylar is cyan (blue).

*When the Printer Interface is maximized, the media type is written in the center of the roll. When the Printer Interface is smaller, the roll end only shows the size.*



This drawer contains 17 inch vellum. The roll is 0-25% full.



All black indicates the drawer is empty.



All white means that this drawer has not yet been read by the Printer Interface.



All red means this drawer has a Multiple Match or No Match error. (Multiple Match indicates that a medium was loaded that matches more than one type of media in the inventory. No Match indicates that a medium was loaded that has no match in the Media Inventory).

## The Printer Information Box

8.7  
*Printer  
Information*

**Mode: Automatic**  
**Job: #13, DIGITAL SYS.**  
**Image: Sample.tif**  
**Position: Set: 1 of 1, Image: 4 of 4, Page: 1 of 1**

This area provides information about the current print job, including:

- The printing mode
- The job number and description (if any)
- The name of the image file being printed
- The set, image, copy, and page being printed
- Error messages (if any)

## The Print Status Box

The Print Status box shows the status of every image or job being processed by the printer. One or more jobs or image can be in process at one time.

8.8  
*Print  
Status*

Job #	Image	Status	
13	Sample.tif	Exiting	
13	SAMPLEH...	Printing	
13	SAMPLEC...	Waiting	

The following columns appear in the Print Status box:



- **Job #:** Displays the job ID number, as assigned in the Job Queue.
- **Image:** Lists the names of the image files.
- **Status:** Tells you the status of an image in the printing cycle. These are listed in order of occurrence:
  - Started
  - Imaging
  - Waiting
  - Feeding
  - Printing
  - Exiting
  - Folding (if a folder is attached to the printer)

Not every printer displays every status. More information on specific printers, is provided later in this chapter.



*Note: The Print Status Box displays a warning message when the ARU logging file exceeds the maximum size set in the registry.*

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## Setting Up the Printer Interface

The Printer Interface is usually ready for use immediately after installation. When using a socket printer, those printers that require a TCP/IP address, some additional steps are required. Socket printers include the AccXES and the Océ Power Logic controller driven printers. Please refer to “Socket Printers” on page 8-67, for more information on setting up the Printer Interface for these printers.

The Printer Interface contains a pre configured media inventory list. You do not have to add media to the inventory list before sending jobs to the printer. However you may want to change certain parameters and settings to fit your requirements.

The following sections describe options available in the Printer Interface. Default settings are provided for most options.

### Set General Printing Options

The General Configuration dialog box is used to select options available for all printers.



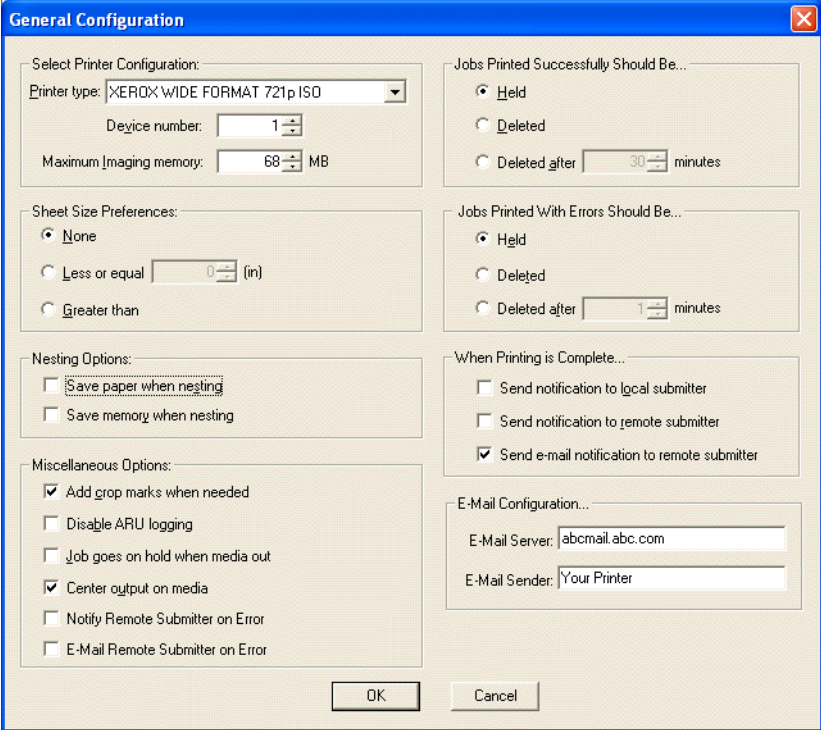
*When General Printing Options are changed, the Printer Interface may close and reopen registering the changes.*

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#### To set General Printing Options:

1. Open the Printer Interface, if it is not already open.
  2. From the **Setup** menu select **General Configuration....**
  3. Edit the desired fields in the General Configuration dialog box.
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8.9  
General  
Configuration  
dialog box



The General Configuration dialog box is titled "General Configuration" and contains several sections for configuring the printer interface. The sections are:

- Select Printer Configuration:**
  - Printer type: XEROX WIDE FORMAT 721p ISO (dropdown menu)
  - Device number: 1 (spin box)
  - Maximum Imaging memory: 68 MB (spin box)
- Jobs Printed Successfully Should Be...**
  - ☒ Held
  - ☐ Deleted
  - ☐ Deleted after 30 minutes (spin box)
- Sheet Size Preferences:**
  - ☒ None
  - ☐ Less or equal 0 (in) (spin box)
  - ☐ Greater than
- Jobs Printed With Errors Should Be...**
  - ☒ Held
  - ☐ Deleted
  - ☐ Deleted after 1 minutes (spin box)
- Nesting Options:**
  - ☐ Save paper when nesting
  - ☐ Save memory when nesting
- When Printing is Complete...**
  - ☐ Send notification to local submitter
  - ☐ Send notification to remote submitter
  - ☒ Send e-mail notification to remote submitter
- Miscellaneous Options:**
  - ☒ Add crop marks when needed
  - ☐ Disable ARU logging
  - ☐ Job goes on hold when media out
  - ☒ Center output on media
  - ☐ Notify Remote Submitter on Error
  - ☐ E-Mail Remote Submitter on Error
- E-Mail Configuration...**
  - E-Mail Server: abcmail.abc.com (text box)
  - E-Mail Sender: Your Printer (text box)

At the bottom of the dialog box are "OK" and "Cancel" buttons.

The following fields appear on the General Configuration dialog box:

- **Printer type:** Select your printer model from the drop down list.
- **Device number:** Assign the device a unique number between 1 and 4.
- **Maximum Imaging memory:** Enter the maximum amount of memory (RAM), in megabytes, to allocate for imaging. The default amount is 68MB, which is enough for most tasks. Maximum Imaging Memory can be set as high as 1MB less than the total amount of memory your computer contains.

When a print job starts, the Printer Interface processes (rasterizes) as many drawings as it can into physical memory and sends them to the printer. This continues until it reaches the limit set under Maximum Imaging Memory.

Running multiple Printer Interfaces, or a Scanner Interface, requires memory as well. To determine how much memory to allocate to each application, consult Appendix A of this user guide.

The more memory the Printer Interface is allocated, the less memory is available for other PlotWorks applications. When your computer reaches its memory limits, the Printer Interface and other applications become less responsive

and slower, or may encounter other problems. Therefore, limit the amount of memory allocated to the Printer Interface.

- **Sheet Size Preferences:** Sheet Size Preference options are useful when you want to print all large sheets on one printer, and all small sheets on another. For example, if you are using both a XES 8180 and an 8830, you can use Sheet Size Preferences to have files that are 24" wide or less print on the 8180 (which supports files up to 24" max width), and other files print to the 8830. The 8180 can print a 24" x 36" job much faster in portrait orientation than an 8830 can in landscape.

To use this field both of the following circumstances must occur:

- More than one printer is connected to the same Queue
- The selected printer for one or more incoming jobs is set to "Any."

When using Sheet Size Preferences, the smallest image dimension is considered. Select one of these radio buttons to set limits on the sheet size printed.

Options include:

- **None:** Select this radio button if you do not wish to set print size limits.
- **Less or equal:** Select this radio button to set a less than or equal to print width. When this button is selected the text field following the label becomes available to enter the maximum width you want printed on this device.
- **Greater than:** Select this radio button to set a greater than print width limit. When this button is selected the text field in the line above this label becomes available to enter the minimum width you want printed on this device.
- **Save paper when nesting:** By default, PlotWorks uses the media type allowing the most drawings to be nested. This does not always use the least amount of media. Selecting the Save paper when nesting check box will enable printing multiple images on the least amount of media.



*If selected, printing is slightly slower due to the additional processing required.*

- **Save memory when nesting:** (For color printers) It is possible to nest black-and-white and color images. This can slow down the printer and use more memory. Selecting this option prints images that require more than one color pass on a separate sheet.
  - **Add crop marks when needed:** Select this check box to add crop marks when the paper is larger than the image.
-

- **Disable ARU logging:** Select this box to turn off the ARU (Advanced Reporting Utility) logging feature.
- **Job goes on hold when media out:** Select this option to put a job on hold when the printer does not contain the correct medium for that job. The printer will bypass the job, notify the user, and begin printing the next job.

When this option is not selected, the printer does not print any job when it runs out of a medium. Instead it waits for you to load the missing media.

*You must select “Always Available” in the Add/Edit Media Inventory dialog box for the print medium, or the job will not be held. The images will instead print on another roll of medium.*

- **Center output on media:** Select this check box to print the image centered on the medium. Centering is based on the image extents. Image margins, justification, or labels are part of the image extents. This can sometimes cause the image to not appear centered.
  - **Notify Remote Submitter on Error:** Select this check box to notify the job submitter, via a Windows dialog box, when a job cannot be printed due to print errors.
  - **E-Mail Remote Submitter on Error:** Select this check box to notify the job submitter, via e-mail, when a job cannot be printed due to print errors. The submitters e-mail address is acquired from the Network Polling Directory level default PFS file, the Incoming PFS file, or the PlotWorks Web Job Submission Tool. See Appendix D for information on how to add e-mail addresses to the PFS file.
  - **Jobs Printed Successfully Should Be...:** Select one of the choices provided to determine what to do with successfully printed jobs. Choices include:
    - **Held:** Select this option if you want to place successfully printed jobs on hold.
    - **Deleted:** Select this option if you want to delete successfully printed jobs.
    - **Deleted after:** Select this option if you want to delete successfully printed jobs after a determined amount of time. When this radio button is selected, the text field following the label becomes active. Enter the number of minutes from 1 to 9999 (almost 7 days) to hold a printed job before it is automatically deleted.
-

- **Jobs Printed with Errors Should Be...:** Select one of the choices provided to determine what to do with printed jobs containing errors. Choices include:
  - **Held:** Select this option if you want to place jobs printed with errors on hold.
  - **Deleted:** Select this option if you want to delete jobs printed with errors.
  - **Deleted after:** Select this option to delete jobs, printed with errors, after a determined time period. When this radio button is selected, the text field following the label becomes active. Enter the number of minutes from 1 to 9999 (almost 7 days) to hold a job printed with errors before it is automatically deleted.
- **When Printing is Complete:** This group box contains options to notify job senders of successfully printed jobs. Options include:
  - **Send notification to local submitter:** Select this check box to notify a local submitter that their job has completed printing, via a dialog box that pops up when the job exits the printer. This is only possible when the job is submitted directly to the Queue and the submitter is on the same network as the Printer Interface.
  - **Send notification to remote submitter:** Select this check box to notify a remote submitter that their job has completed printing via a dialog box that pops up when the job exits the printer. This is only possible when the submitter is on the same network as the Printer Interface.
  - **Send e-mail notification to remote submitter:** Select this check box to e-mail a submitter that their job has completed printing. When this check box is selected, the **E-mail Sender** and **E-mail Server** text boxes become active. The submitters e-mail address is acquired from the Network Polling Directory level default PFS file, the Incoming PFS file, or the PlotWorks Web Job Submission Tool. See Appendix D for information on how to add e-mail addresses to the PFS files.
  - **E-Mail Server:** Enter the name of your local e-mail server. (e.g. "abcmail.abc.com"). The e-mail function will not work unless the correct value is entered.
  - **E-Mail Sender:** Enter the name you want to have appear in the 'From' portion of the e-mail. Enter a value in this field or the e-mail function will not work. PLP recommends that long e-mails, or multiple e-mails not be entered in this field. Long e-mails will overwrite the contact information in the Job Queue.

- **OK:** Click this button to save your changes and close the General Configuration dialog box.
- **Cancel:** Click this button to close the General Configuration dialog box without saving any changes that may have been made.

## Configure Device Specific Options

The Device Specific Options dialog box is used to specify parameters specific to each printer, folder and scanner. Options not available for your printer are grayed out. For device-specific setup information, refer to “Printer-Specific Options” on page 8-46.

### To set Device Specific Options:

1. Click on the **Setup** menu.

#### 8.10 Device Specific Options dialog box

**Device Specific Options**

**Folding Options:**  
 Folder type: **No Folder/Auto Detected Folder** Serial port: **1**  
☐ 180 automatic set rotation ☐ Send flat output to finisher  
☐ Punching ☐ Rotation feature  
☐ Reinforcement

**Smart Switch Options:**  
 Smart Switch control: **None** Copy Mode Timeout: **0**  
 (seconds, 0 = none)

**Printer Options:**  
 Print density: **12** Power Save Timeout: **0**  
 (minutes, 0 = none)  
☒ Reduce pen widths Minimum Pen Width (pixels): **1**  
☐ Add lead/trailing edges Leading: **0** (in) Trailing: **0**  
 Printer name:  **Properties**  
 Output quality: **400** **400** **400**  
 (Best) (Normal) (Draft)  
 Minimum Paper Length: **8.2** (in) Hardware Port Number: **2**

**Socket Options:**  
 IP Address: **0 . 0 . 0 . 0** User Name: **Anonymous**  
 Socket Port Number: **2000** Password:

**OK Cancel**

2. Select **Device Specific Options**. The Device Specific Options dialog box opens.

3. Edit the fields in the Device Specific Options dialog box. Available fields are:
  - **Folder type:** Select either:
    - The folder attached to the printer if it is listed in the drop down list
    - **No Folder/Auto Detected Folder.**



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*The **Folder type** drop down list does not list the 8180, MAX 200, Gera and 8845 folders. PlotWorks automatically detects these folders.*

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- **Serial port:** If using a folder with a serial connection, enter the serial port number in this field.
  - **8180 automatic set rotation:** This check box is only available for the 8180 or MAX 200 and is used to enable automatic set rotation. Automatic set rotation outputs each successive collated set at a 90-degree angle to previous ones.
  - **Send flat output to finisher:** This check box is only available for the MAX 200 and is used to output drawings not folded to the folder tray instead of the slot at the top of the printer.
  - **Punching:** Select this check box to enable punching if supported by your folder.
  - **Rotation feature:** Select this check box to enable rotation if you have a rotation table.
  - **Reinforcement:** Select this check box to enable margin reinforcement if supported by your folder.
  - **Smart Switch control:** This options is provided for Printer/Scanner combinations that are driven by the Scorpion controller. These include the XEROX WIDE FORMAT 8855 printer, and the Legacy XES 7396 or 7399 scanners. Options include:
    - **Automatic:** If selected, the scanner automatically switches back and forth between copy and print/scan mode. This works when the operator presses the “OP mode” button on the scanner itself.
    - **Manual:** This setting is used when the scanner and the printer are connected to different computers. If you are going to use Manual mode, pause the Printer Interface before pressing the “OP mode” button on the scanner.
-





*Due to the complexity of the Smart Switch and Printer Interface, the PlotWorks job recovery feature will not work if the printer runs out of media and you pause the Printer Interface to add more. In this case, use the **Reprint** feature in the Job Queue to start the print job where it left off (select **Reprint** from the Job Queue **Job** menu and enter a starting position).*

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- **None:** This setting is used if there is not a scanner attached to the Smart Switch.
- **Copy Mode Timeout:** This field is active only when the Smart Switch control is set to Automatic. Enter the number of seconds the scanner should remain idle in Copy mode before reverting to Scan/Print mode.
- **Print density:** Enter a number between 1 and 50. This number determines the density of the image based on the amount of toner used. 50 is the most dense and 1 is the least. Print Density does not affect the 8845 printer.



*A density setting of 10 to 15 is recommended. Higher densities rarely print darker but do waste toner.*

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- **Power Save Timeout:** Enter the number of minutes the printer should remain idle before switching to the Power Save mode.
- **Reduce pen widths:** This option is designed for the XEROX WIDE FORMAT 8830, 8825 and 8845. Select this check box to reduce pen widths by 1 pixel. This improves image quality.
- **Minimum Pen Width (pixels):** Enter a number from 1-10. 1 is the default. Increase the number if your lines are printing too light or not at all. This option is mainly provided for new printers that are able to print very fine lines.
- **Add lead/trailing edge:** This option is useful when documents are printed clipped. Select this check box to add length to the image extents to compensate for this clipping. This enables the following two fields:
  - **Leading:** Enter the amount of media to add to the drawing edge that exits the printer first.
  - **Trailing:** Enter the amount of media to add to the drawing edge that exits the printer last.



*Adding leading or trailing edges to the paper will print crop marks if the crop mark option is enabled.*

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- **Windows and Generic Embedded Controller Printer Options:** The following two options are used with Windows and Generic Embedded Controller printers and the 2230 and 2240 InkJet printers
  - **Printer Name:** Select your printer from this drop down list.
  - **Output quality:** Select a value from 0 to 1200 dpi for each output quality type. Refer to your printer manual for recommended values. Set the desired level for each image in the Job Editor. See “The Bottom edge option is useful when you plan to collate or fold scanned images and you want to make sure they all face the same direction. For example, the Bay folder requires the title block to enter the folder last in order to get a properly folded package. Other folders require the title block to enter the folder first.” on page 4-24.



*If Output Quality is set at a higher DPI than supported by the printer, a larger or smaller print than desired may result.*

- **Minimum Paper Length:** Enter a value for the minimum paper length to use. This helps to avoid paper jams when folding.
- **Hardware port number:** Enter the port number on the Scorpion or Gecko controller card that the printer is connected to (usually 1).

4. Click **OK**.

## Generic Embedded Controller Options

The Generic Embedded Controller Options dialog box is used to communicate which roll to use for each image. Depending on your printer all or some of these fields may be disabled.

The following fields appear on the Embedded Controller Options dialog box:

- **Header:** Contains printer Opcodes and Instructions that are sent to the printer before the image is printed.
- **Rolls 1-6:** These fields function as the ‘Print Roll Specific Command’ to determine when to switch rolls. Specify the sizes and types of media using Media Change and set the printer Opcodes/Instructions for the roll here. The Printer Interface will select the roll and send the necessary printer Opcodes/Instruction to the embedded controller.
- **Trailer:** Specify finishing options such as folding etc. in this text box. These printer Opcodes/Instructions are sent directly to the printer after the image is printed.

### 8.11 Embedded Controller Options Panel

The Registry key “RTL Roll Manual”, made for all Generic Embedded Controller printers contains the Printer Opcodes/Instructions to engage a printer’s manual feed option. To manually feed media on a Generic Embedded Controller printer, set the RTL Roll Manual Registry key. This setting is not modifiable in the Embedded Controller Options dialog box because once set, the setting requires little, if any, modification.

If manual feed is required and the printer’s Printer Opcodes/Instructions aren’t set by the PlotWorks installation program, manually set the Registry key by typing the following text in the Header text box:

**“HKEY\_LOCAL\_MACHINE\SOFTWARE\PLP\ Printer Interface\Name of Printer\RTL Roll Manual”**

Refer to the printer’s manual for more Printer Opcodes/Instructions.



*The 8830 with an Embedded Controller doesn’t require this Registry key setting.*

## Selecting Notification Sounds

When a printer error or a priority job is received, the Printer Interface plays a default sound to notify the user. To select a different sound, open the Windows **Control Panel**, select **Sounds and Audio Devices**, click on the **Sound** tab, navigate to **PlotWorks** from the **Program Events** select box, and click on the appropriate event. Then select a sound from the **Sounds** drop down list.

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*Seven WAV files were installed with PlotWorks. These are named: chirp.wav, incomingjobx-cyborg.wav, incomingjobx-voice.wav, jobrecieved-cyborg.wav, jobrecieved-voice.wav, steamwhistle.wav, and sweep.wav.*

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## Setting Up Media Inventory

### About the Media Inventory

The Media Inventory is a record of all the media you have in stock. When PlotWorks is installed, a preconfigured inventory containing commonly used media sizes and types, is provided. Add, edit, and delete media types from this list as needed.

The Printer Interface compares the size and type of media in each printer drawer with media in your inventory list. If the media detected in a drawer is not listed, the Printer Interface displays a “No Match” error and will not print from that drawer until the new media type is added to Media Inventory.

If **more than one** listing matches the detected media, the Printer Interface displays a “Multiple Match” error and will not print from that drawer until you select Media Change to select the correct media type. See “Change Media Type” on page 8-25 for more information.

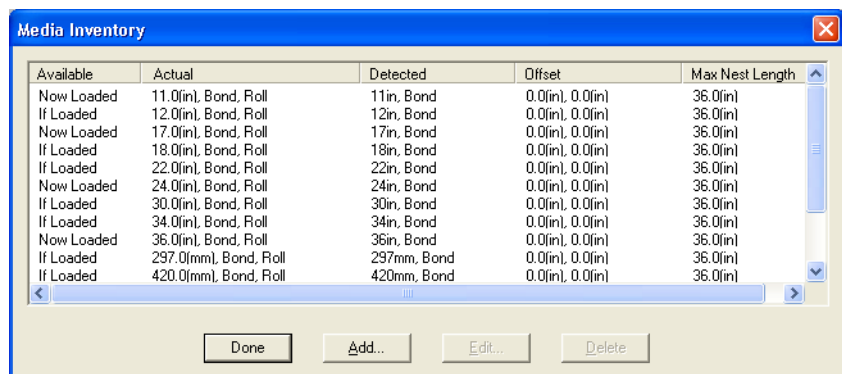
If “Hold When Media Out” is not selected, and a print job requests a media type in stock but not loaded, the Printer Interface displays an error message asking you to load the correct medium or use Media Override to select an alternate media type. See “Media Override” on page 8-24 for more information.



### Adding Media to Inventory

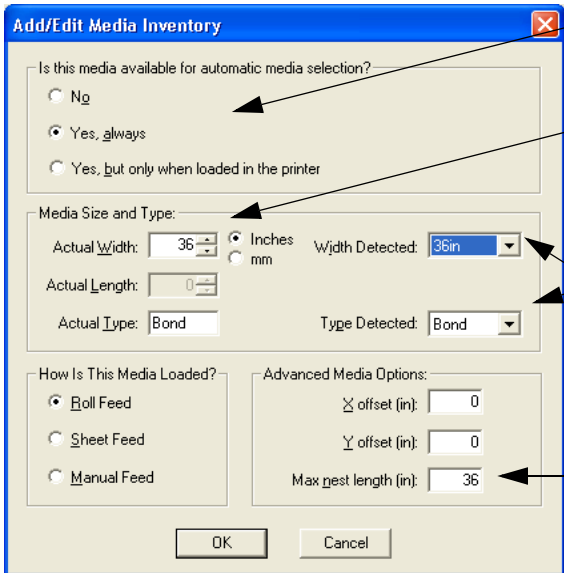
1. Click **Inventory**. The Media Inventory dialog box displays.

8.12  
Media  
Inventory



2. Click the **Add** button. The **Add/Edit Media Inventory** dialog box appears.

### 8.13 Add/Edit Media Inventory



The screenshot shows the 'Add/Edit Media Inventory' dialog box. Annotations point to various fields:

- Select the desired media availability.** Points to the 'Is this media available for automatic media selection?' section with radio buttons: ☐ No, ☒ Yes, always, and ☐ Yes, but only when loaded in the printer.
- Enter the actual media type and dimensions. (If Sheet fed or manually fed, also enter the length.)** Points to the 'Media Size and Type' section, specifically the 'Actual Width' field (set to 36) and the 'Inches/mm' radio buttons.
- Enter the media width and type for the printer to use when it detects this media.** Points to the 'Width Detected' dropdown (set to 36in) and the 'Type Detected' dropdown (set to Bond).
- If nesting images, enter a maximum length for the final print (to conserve media)** Points to the 'Max nest length (in):' field in the 'Advanced Media Options' section, which is set to 36.

Other fields visible include 'Actual Length' (set to 0), 'Actual Type' (set to Bond), 'How Is This Media Loaded?' (with radio buttons for Roll Feed, Sheet Feed, and Manual Feed), and 'Advanced Media Options' (with fields for X offset, Y offset, and Max nest length).

The following fields appear on the Add/Edit Media Inventory dialog box:

- **Is this media available for automatic media selection?** Select one of the following options:
  - **No:** Select this radio button when the medium is unavailable.
  - **Yes, always:** Select this radio button if this medium is in stock and you want the Printer Interface to prompt you for it when it is not loaded.
  - **Yes, but only when loaded in the printer:** Select this radio button for media you only want to automatically select when loaded in the printer. The media will then display as “Now Loaded” in the inventory list.



*Media is not auto detected on Windows and Generic Embedded Controller printers, such as the 8830 AccXES printer.*

- **Media Size and Type:**
  - **Actual Width** (required): Enter the actual medium width in this field. Then select either the **inches** or **mm** radio button depending on the actual media width. This measurement is not affected by the Units selected in the Setup menu.
  - **Actual Length:** Enter the actual medium length for sheet-fed or

manually-fed media. Use the same units of measure as selected above. Select **0** if using roll-fed media.

- **Actual Type** (required): Enter the actual medium type: Bond, T-Bond, Vellum, or Film. You can enter a color or other descriptive text (such as Blue Bond) as desired. This is useful for separator pages.
- **Width Detected** (required): Select the width detected by your printer for this medium from the drop down list.
- **Type Detected** (required): Select the medium type that will be detected by the printer for this roll: Bond, Vellum, or Film.



*If the manual feed option requires an RTL Roll Manual Registry key, see “Embedded Controller Options” in the previous section.*

---

- **How is This Media Loaded?:** Select either:
  - **Roll Feed**
  - **Sheet Feed**
  - **Manual Feed**
- **Advanced Media Options:**
  - **X offset:** Enter the horizontal distance to offset all images. This is useful for odd-sized medium. For example, if the actual paper width is 15 inches, and the printer-detected width is 17 inches, a Multiple Match occurs. To use less paper, enter **2** in the **X offset** field (the difference between 17 and 15).



*When a Multiple Match error occurs, open the Media Change dialog box and use the drop down list next to the Multiple Match entry to select the desired media type.*

---

- **Y offset:** Enter the vertical distance to offset all images. This field is only used to add or remove space from the leading edge of the page.
- **Max nest length:** Enter the maximum media length to print from this roll. This field is used when nesting documents.

When nesting, PlotWorks determines what length is most efficient. To ensure that the print won't go on forever and to conserve memory, it is a good idea to set a maximum length. The default *maximum* length is 36 inches.

---



*Standard U.S. media rolls are 500 feet long, however media rolls can be 650 feet long.*

3. Click **OK** to return to the Media Inventory dialog box.
4. Click **Done** to save your changes and close the dialog box.

### Edit the Media Inventory List



1. Click **Inventory**.
2. Select the entry that you want to edit.
3. Click **Edit**.
4. Edit the fields in the Add/Edit Media Inventory box as desired. See “About the Media Inventory” on page 8-21 for a description of these fields.
5. Click **OK** to return to the Media Inventory.
6. Click **Done** to exit the Media Inventory dialog box.



*Media Inventory can be edited during printing. You can view and select a different roll in case of a media out error. See **Media Override** for more information.*



### Deleting Media from Inventory

1. Click **Inventory**.
2. Select the entry you want to delete.
3. Click **Delete**.
4. Click **Done**.

### Media Override

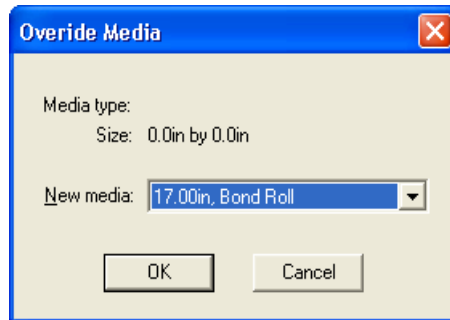
If media runs out in the middle of a job, use the Media Override feature to select a different roll.



1. Click on the **Setup** menu
2. Select **Override Media**. The Override Media dialog box displays the current media type and size.



### 8.14 Override Media dialog box



3. Select the media to use from the **New Media** drop down list All media available in Media Inventory is included in this list.
4. Click **OK**. The job(s) finishes printing on the new media.

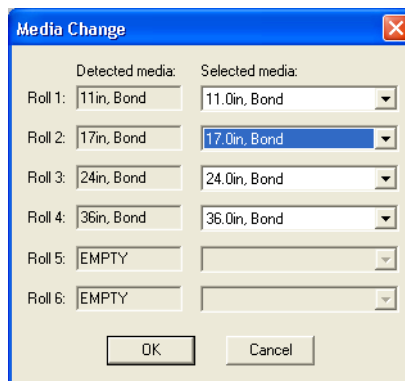
## Change Media Type

The Printer Interface displays a “Multiple Match” error when the inventory contains more than one medium that matches a requested media size and type. In this case we use the Media Change feature to select the desired medium.



1. Click on the **Setup** menu
2. Select **Media Change**. The Change Media dialog box displays loaded media.
3. Use the drop down list next to the Multiple Match entry and select the desired media type.
4. Click **OK**. The job(s) prints on the selected medium.

### 8.15 Change Media dialog box



## Manual Feed

When manual feed is specified in media inventory, the Printer Interface requests that you manually feed media into the printer. You can put manual feed on hold or override the media type or size before actually inserting paper. After the paper is inserted printing continues.



*You cannot select manual feed when a fold is also specified.*

---

### To use manual feed on the MAX 200

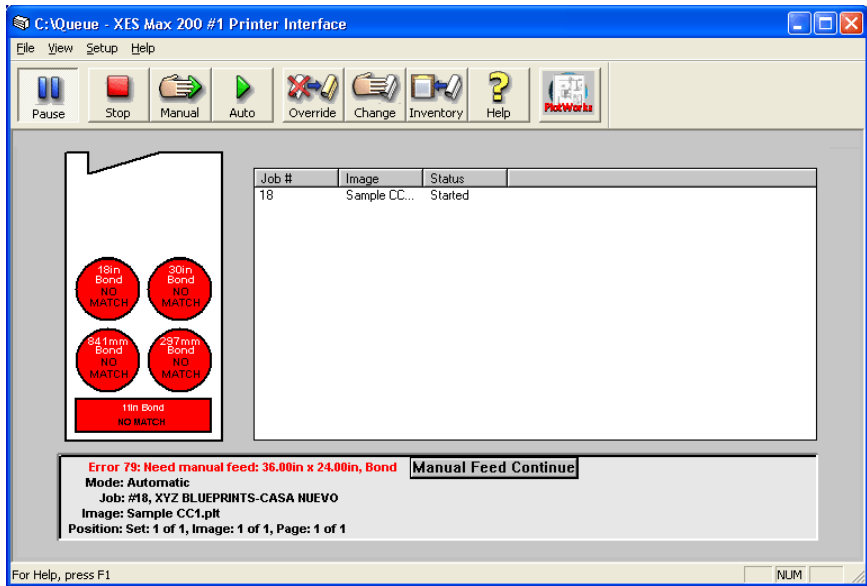
1. Specify manual feed in the media inventory. A message, “Need manual feed” and the **Manual Feed Continue** button appear in the Printer Information Box.
2. Click the **Manual Feed Continue** button.
3. Load the cut sheet of paper
4. Press **Start** on the MAX 200 panel.
5. When done, press **Next Document** on the MAX 200. The **Manual Feed Continue** button disappears and PlotWorks continues normal operations.



*The orientation graphic on the manual feed panel of the MAX 200 always displays paper size as portrait. The manual feed panel displays all paper sizes by width, except for 8.5 x 11”, which displays by height (11). The MAX 200 does not accept media requests for widths as small as 8.5. To use manual feed for a 8.5 x 11 paper size, set the paper size to 11 and feed the paper as landscape.*

---

8.16  
XES MAX  
200 Printer Inter-  
face displaying  
the Manual Feed  
Continue button



# Printing Basics

## Set Printing Modes

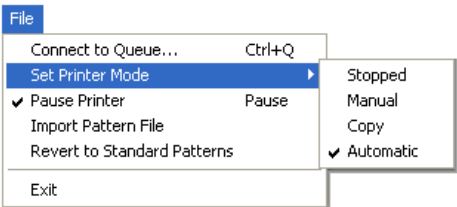
The Printer Interface polls the Job Queue for print jobs. You can set the Printer Interface to act upon jobs in the Queue in the following different modes:

- **Stopped:** Stops the printer after the job currently printing completes printing. No other jobs print when in this mode.
- **Manual:** Puts the printer in manual mode. In this mode, only jobs with a priority of Print Next or Print Immediate are printed without operator intervention.
- **Copy:** Puts the Printer in Copy mode. In this mode, only jobs with a priority of Copy, Print Next or Print Immediate are printed without operator intervention.
- **Automatic:** Puts the printer in Automatic mode. All jobs are then printed according to the priority assigned.

### To set a printing mode:

1. Open the **File** menu and select **Set Printer Mode** (or click the appropriate button on the tool bar).

8.17  
*Set Printer  
Mode sub  
menu*

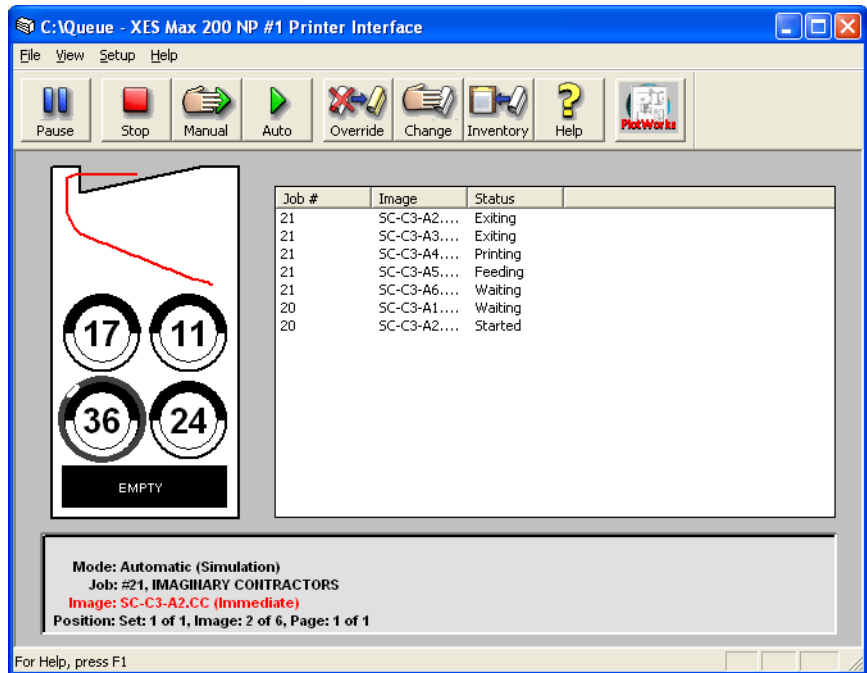


2. Select the desired mode. The Set Printer Mode sub menu displays a check mark next to the selected mode.

## Printing Rush Jobs

Jobs given a priority of Print Immediate in the Job Queue are printed immediately. If a job is currently printing it is interrupted to print the rush job. See “Interrupting a Job to Print Another Immediately” on page 3-18 for details.

8.18  
*Sample job  
interrupt  
in progress*



The Printer Interface window reflects that a rush job is printing. Both the rush job and the interrupted job are listed in the Printer Status window. The red line designates the “urgent” job. The Printer Information box displays the rush job information in red. The illustration below shows what the average Printer Interface looks like when a job is interrupted to print a rush job.

## Display Images When Printing

You can display a WYSIWYG representation of images in an image viewer as they are printed by selecting **Print to Display**. This does slow the printing process.

1. Open the **Setup** menu
2. Select **Simulation/Demo**.
3. Select **Print to display on viewer**
4. Select the desired viewer from the drop-down list or click the Browse button to select a different viewer.



*The image viewer must support TIFF version 6, Group 3/Group 4 compression files.*

---

5. Click **OK**. When an image is printed, it displays in the selected Viewer.
  - The PlotWorks Image Viewer automatically refreshes and displays each image as it prints.
  - The Wang Imaging viewer displays each image in a new window. You are prompted to click **OK** for the next image. Close each window after viewing.

## Printing Separator Pages

PlotWorks can create separator pages. A separator page is a sheet that is usually a different color or slightly larger that is printed or placed between jobs or sets of images to make it easier to separate them. You can select the media type and size for separator pages. Windows printers automatically include separator pages for each job. To disable separator pages on Windows printers, do so from the printer or Windows Printer Options dialog box, not PlotWorks.

The following information is printed on the separator page:

- |   |                              |
|---|------------------------------|
| • Submitter (UNC Login name and machine name) | • Image Files and Quantities |
| • Set #                                       | • Job #                      |
| • Company                                     | • Project                    |
| • Contact                                     | • Date*                      |
-

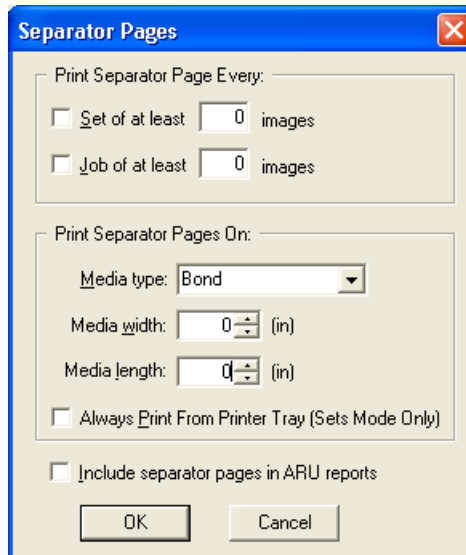
- Time\*
- Job Submitter User Name
- Job Submitter UNC
- The text *Separator Sheet*

\* The Date and Time are based on the current date and time as formatted in the Windows Control Panel/ Regional Settings feature of the PlotWorks server.

#### To enable separator pages:

1. Click on the **Setup** menu.
2. Select **Separator page**. The Separator Pages dialog box displays.

8.19  
The Separator Page dialog box



3. To print a separator page between sets, select **Set of at least**. Then enter a number for the minimum number of images that should be contained in the set to print a separator page. For example if you enter 5, only when you print a set of 5 or more images will a separator page be included between the sets.
4. To print a separator page between jobs, select **Job of at least**. Then enter the desired number of images that should be contained in the job to print a separator page. For example if you enter 5, only when you print a job of 5 or more images will a separator page be included between the jobs.
5. Select the media type from the **Media type** drop down list. Or, enter a custom media type by typing the name of the “Actual Type” of media. Ensure this media is listed in the Media Inventory with the “Actual Type” defined.

6. In the **Media width** and **Media length** fields, enter the desired medium size to use for the separator page.  
Minimum allowed width is 8" or 210mm (Letter size or A4), maximum width is 100" or 2540mm.  
Minimum allowed length is 8" or 210mm, maximum length is 100" or 2540mm.
7. Select **Include separator pages in ARU reports** if you use the ARU (Advanced Reporting Utility) to track the total media used.
8. Click **OK**.



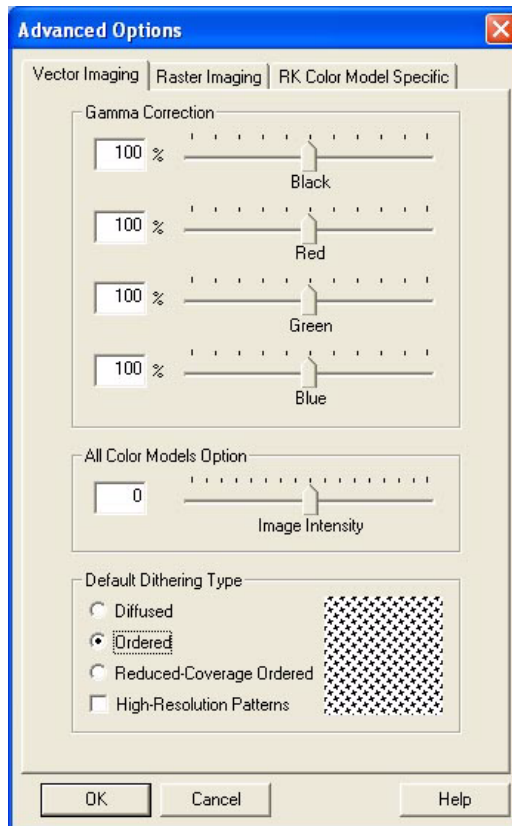
## Advanced Options

The Advanced Options dialog box offers Vector and Raster imaging options and RK Color Model Specific options. These options are used to enhance the quality of printed images.

### Opening the Advanced Options dialog box.

1. Click on the **Setup** menu
2. Click on **Advanced Options** the Advanced Options dialog box opens.

8.20  
*The Vector Imaging tabbed dialog box.*



There are three tabs on this dialog box. Vector Imaging, Raster Imaging, and the RK Color Model Specific tabbed dialog boxes. Click on the appropriate tab depending upon the type of image you are printing.

## The Vector Imaging and Raster Imaging Tabbed Dialog Boxes

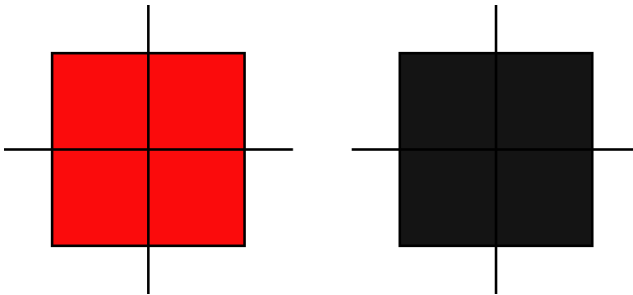
The Vector Imaging and Raster Imaging tabbed dialog boxes offer similar options. These are described next.

### Gamma Correction

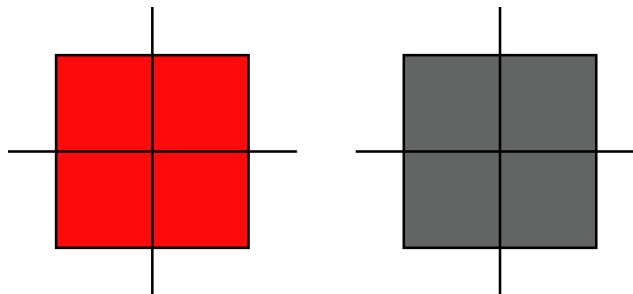
The Gamma Correction option is provided to control the overall brightness, hue, and contrast of a particular color in an image.

Adjusting the gamma setting for a color can help improve contrast so that lines and fills display better. If you have an image where one particular color does not display well, you can adjust the Gamma Correction for that color. For example, if you have a black line that intersects a red fill and the black line does not show on a monochrome print, you can lower the red gamma setting so that the line stands out from the fill.

8.21  
*Original  
Image and  
Mono-  
chrome  
Represen-  
tation*



8.22  
*Same Im-  
age with a  
lower red  
gamma  
setting*



Gamma Correction settings do not affect black and white areas of a drawing. Changing the Gamma Correction has little impact on light colors.

To apply Gamma Correction, use the Gamma Correction slider for the color you wish to correct. The selected color becomes lighter as you lower the Gamma Correction setting and darker as you increase the Gamma Correction setting.

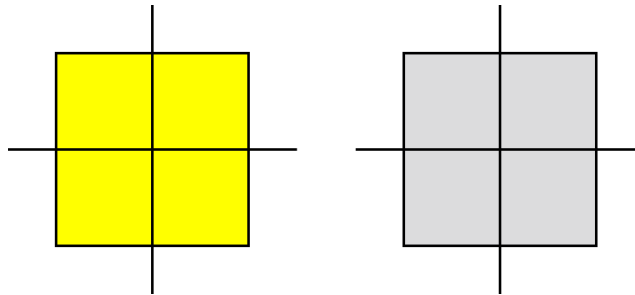
### All Color Models Option

To change how dark or bright the overall image prints, move the **Image Intensity** slider to increase or decrease the value reported in its text box. Higher values cause the image to print darker.

For example, if you have a very light background that does not show when the image is printed, you can increase the Image Intensity value to display the light background.

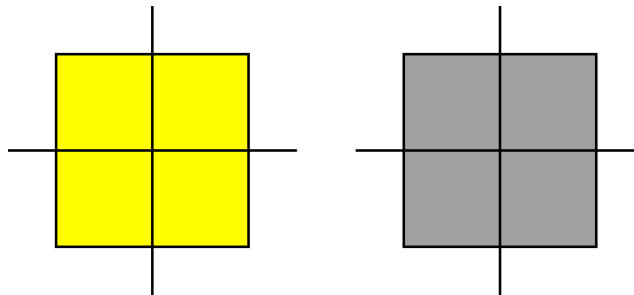
---

8.23  
*Original  
Image and  
Mono-  
chrome  
Represen-  
tation*



---

8.24  
*Same im-  
age with  
Image In-  
tensity in-  
creased*



Increasing the Image Intensity will make darker areas of the image print even darker. Decreasing the Image Intensity will make lighter areas of the image print even lighter. Sometimes this decreases the contrast between different fill patterns in an image. Therefore it may be necessary to adjust the Gamma Correction for a color to compensate for increasing or decreasing the Image Intensity value.

### Default Dithering Type

Depending on the image, viewer preference, and printer, changing the type of dithering pattern can improve printing results. The following dithering options may be available depending upon the type of image you are printing:

---

- **Diffused:**

When Diffused is selected, dots are placed to approximate source pixels. The amount of "error" in the approximation is balanced with adjoining source pixels to better approximate the source image.

This option is ideal:

- When printing a continuous gradient from black to white.
- When the Repro Desk option "Use Error Diffusion for Gray or Color RTL images" check box is selected.
- When printing in grayscale
- For documents mainly containing lines.

This option provides the same functionality as specifying the **R** macro.

- **Ordered:**

Ordered dither places dots in a regular pattern to approximate the source pixel. A lighter source pixel is mapped to a pattern containing fewer pixels, while a dense pattern is applied for dark pixels. This is the default option for color and RTL printers.

This option is ideal:

- When printing in color.
- Printing photos
- Printing documents containing fills.
- For printing output similar to Repro Desk raster output when the Repro Desk option "Use Error Diffusion for Gray or Color RTL images" check box *is not* selected. In this case select Ordered Dither from the Raster Imaging tabbed dialog box.
- When printing using the Océ 9800 series of printers.
- When using the Finess or AccXES controllers

This option provides the same functionality as specifying the **Z** macro.

- **Reduced Coverage Ordered:** This option is designed to use with the 8845 printer and is not available for Raster images.
  - **High Resolution Patterns:** This option is not available when Diffused is selected for Default Dithering Type. Select this option if:
    - There is not enough variance in your fill patterns.
    - If your printer prints single pixels well
-

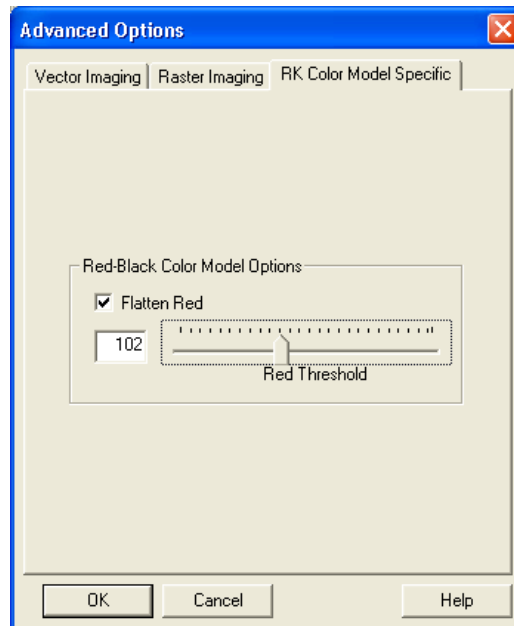
- To emulate output from Repro Desk
- If your print output contains missing lines



Image Rendering Defaults can be specified in the Job Editor, Job Client and in PFS files by specifying macros. The "Z" macro specifies Ordered dither use and the "R" specifies using Error Diffusion

### 8.25RK Color Model Specific Tab

## The RK Color Model Specific Tab Window



The RK Color Model Specific tab window contains options to control how red and black copies of color files are printed.

### Options available in the RK Color Model Specific tab window:

- **Red Threshold:**  
Use this slider to select a value between 1 and 255. The value chosen is referred to as the Red Threshold value. Above this level, red areas of the drawing print without any black pixels. Below this level, black and red pixels print. 255 is the default Red Threshold value. A higher red threshold prints red areas a darker red. A low red threshold prints red areas a lighter red.
- **Flatten Red:**  
When this option is selected, red values greater than the Red Threshold value

are printed a pure solid red. When this option is not selected, the various red values appear as shades of red.

## Connect to a Different Queue

The Printer Interface monitors a single Job Queue and prints jobs from that Queue. When PlotWorks was installed, a Queue directory was created. By default, the Printer Interface is connected to this Queue.

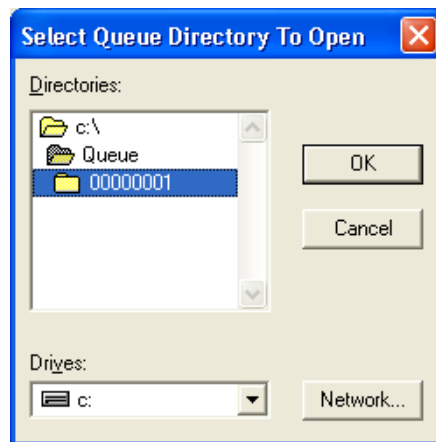
To use a different Job Queue, connect the Printer Interface to the new Queue directory.



See also “The Menu Options” on page 8-4.

1. Click on the **File** menu
2. Select **Connect to Queue**. The Select Queue Directory to open dialog box appears.

8.26  
The Select  
Queue Di-  
rectory to  
open dia-  
log box



3. Select the drive the Queue is in from the **Drives** drop down list.
4. Select the Queue directory in the select box.
5. Click **OK**. A warning dialog box displays stating that changes to the Printer Interface do not take effect until it has closed and reopened.
6. Click **OK**. The Printer Interface closes and reopens automatically.

## Job Recovery

The PlotWorks Error-Free Printing system, for supported printers, detects and displays print errors, like paper jams or low toner.

The Printer Interface displays the location of paper jams, if doors are open (on most printers), if toner or print medium is low, or if there is a media mismatch error so that you can easily correct the error. PlotWorks then completes the print job.

The following illustrations show examples of some possible errors and the steps necessary to recover from them.

---

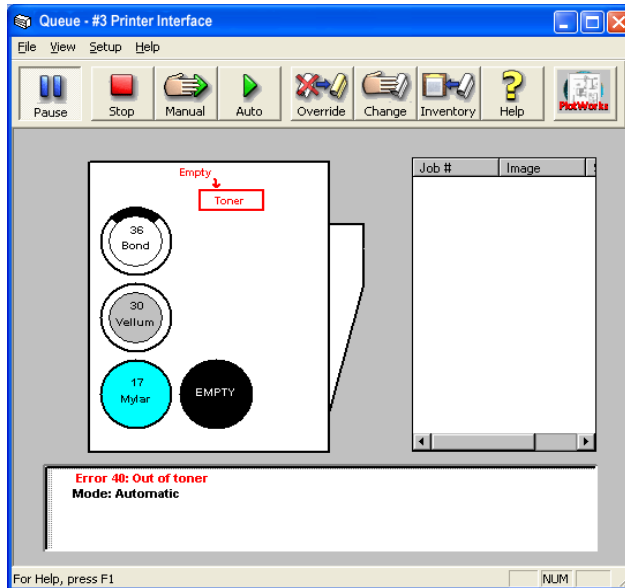


## Printer Errors

### Out of Toner

The Printer Interface below displays that the printer is out of toner.

8.27  
*Toner out  
error*

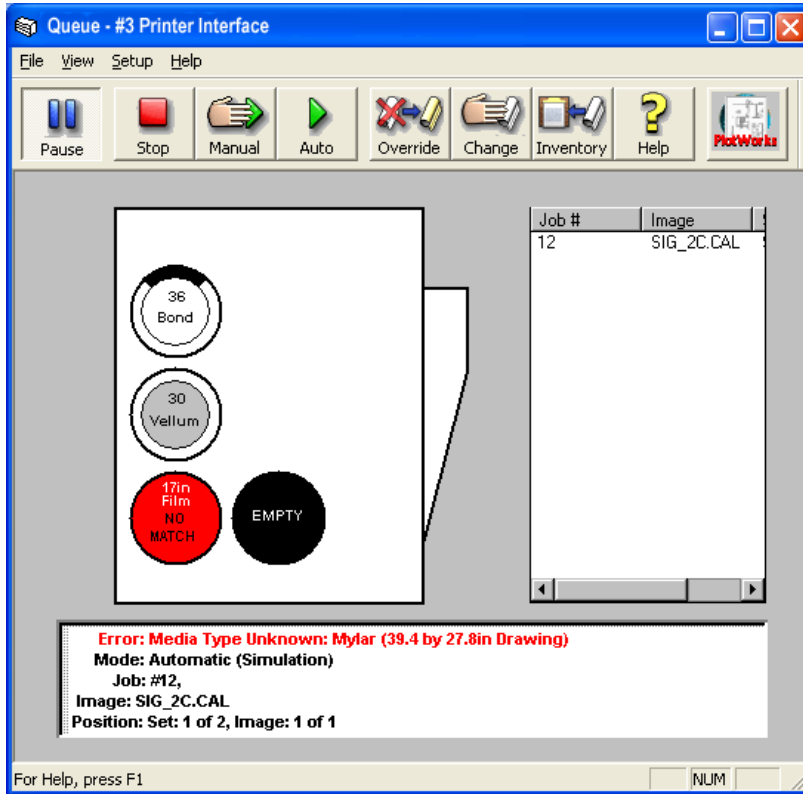


Correct the problem as per the printer's owners manual and printing will resume.

### Media Type Unknown Error

This error appears when a medium is unavailable in the Media Inventory list. PlotWorks reports "Media Type Unknown" and the roll/s display no match. Similar errors occur when the image is larger than the selected medium, or is sent to a media type that conflicts with the media type assigned to the job.

8.28  
Media  
Type Un-  
known  
error



### Two ways to recover:

1. Select **Override Media** from the **Setup** menu and select the type of medium you want the job to print on. Printing resumes.
2. If the medium is available, go to **Media Inventory** and add it (if necessary). Change it to **Available**. Printing resumes.



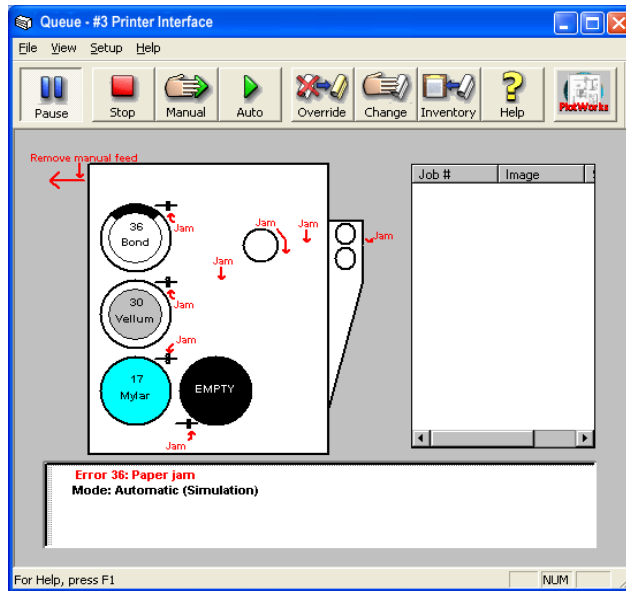
See “Media Override” on page 8-24 and “” on page 8-19.

### Paper Jam

PlotWorks displays the error location in the status window for some printers. The image below simulates multiple paper jams.

---

## 8.29 *Paper Jam error*



### To recover:

1. Locate and correct the jam. You may have to refer to your printers owner's manual.
  2. Close the printer drawers and wait for it to warm up.
  3. The jammed sheet reprint.
-

# Simulate Printing

You can set up the Printer Interface to simulate printing even when the printer is turned off or disconnected. The simulation mode is useful for training, demonstrations or problem-solving.

In simulation mode, you can specify the types of media “detected” in the printer and you can display any printer errors that can be viewed on-screen. When you send a job to the Queue, the Printer Interface simulates its passage through the printer.

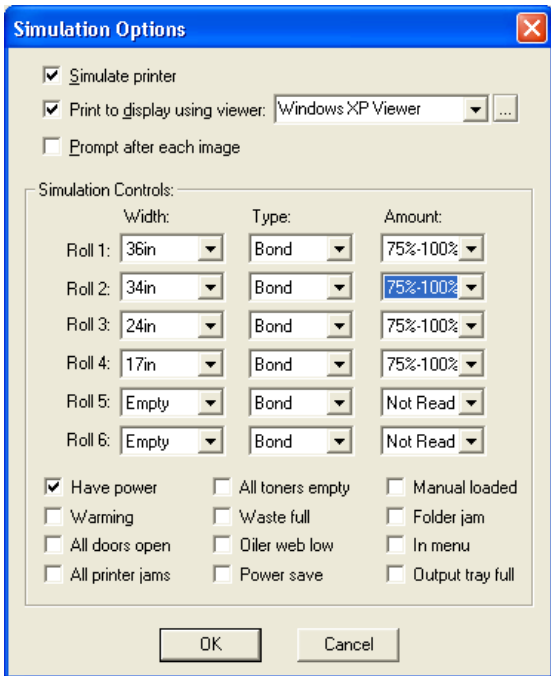


*Rolls cannot be simulated in RTL or embedded printers by setting a roll here. Medium must be in the Inventory and use Media Change to set it as the active roll.*

## To simulate printing:

1. Click on the Setup menu
2. Select **Simulation/Demo**. The Simulation Options dialog box appears.

8.30  
*Paper Jam  
error*



The **Simulation Options** dialog box contains the following controls:

- ☒ **Simulate printer**
- ☒ **Print to display using viewer:** Windows XP Viewer (dropdown menu)
- ☐ **Prompt after each image**
- Simulation Controls:**

Width:	Type:	Amount:
Roll 1: 36in	Bond	75%-100%
Roll 2: 34in	Bond	75%-100%
Roll 3: 24in	Bond	75%-100%
Roll 4: 17in	Bond	75%-100%
Roll 5: Empty	Bond	Not Read
Roll 6: Empty	Bond	Not Read
- ☒ **Have power**
- ☐ **Warming**
- ☐ **All doors open**
- ☐ **All printer jams**
- ☐ **All toners empty**
- ☐ **Waste full**
- ☐ **Oiler web low**
- ☐ **Power save**
- ☐ **Manual loaded**
- ☐ **Folder jam**
- ☐ **In menu**
- ☐ **Output tray full**

Buttons: **OK** **Cancel**

3. Select **Simulate printer**.

4. Select the desired simulations. Be sure to select contents for the media drawers.
5. Click **OK**. The Printer Interface simulates printing.

## Printer-Specific Options

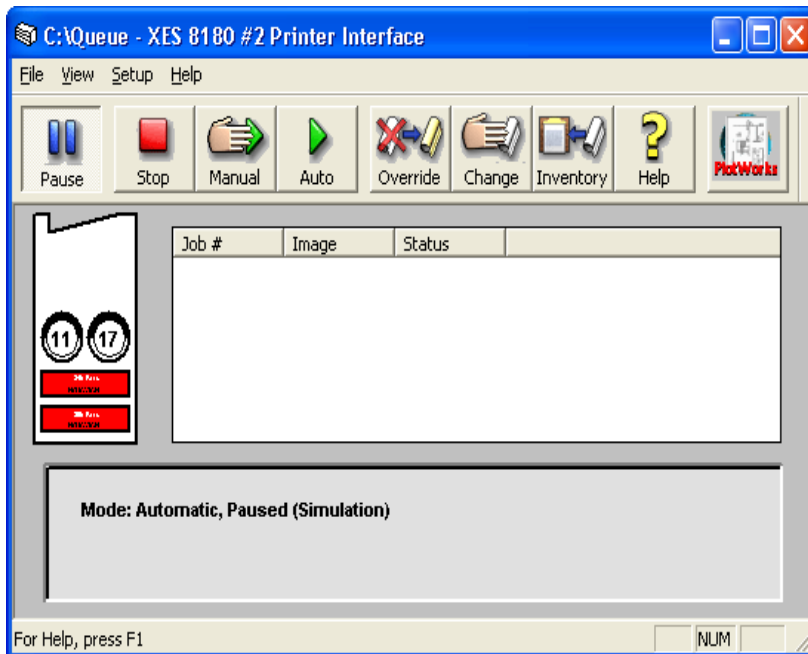
Options available for each type of printer or plotter are similar. However each printer has a Printer Type, ID number, and certain other settings that are unique to that printer. This section details those differences for each PlotWorks supported device.

The printer diagram on the Printer Interface screen is a graphical representation of the device's side view, showing media rolls and/or drawers. Some of the printing devices can send PlotWorks information that can then be displayed on the printer diagram: No media, out of toner, paper jams, etc.

### XES MAX 200 and 8180 Printer Interfaces

The XES 8180 Printer Interface, provides the following notices in the Status Box and Printer Diagram. The XES MAX 200 Printer Interface is very similar.

#### 8.31 8180 Printer Interface



- Toner empty (this also causes an audible warning beep)
- Waste toner full (this also causes an audible warning beep)

The Status Box also displays notices and error messages that do not show up on the Printer Diagram:

- Paper jam (this also causes an audible warning beep)
- Cover open
- Printer is off or is not connected



*When setting up a XES MAX 200 or 8180 printer/scanner combination, open the Windows **Control Panel** > **Settings** > **Devices** and ensure that both **SCSI Scan** and **SCSI Print** is disabled.*

---

### **Highlight Color Printing**

The XES 8180 and MAX 200 can print in red and black provided the M pen macro is used. The Printer Interface can separate red data in a drawing.

In HP-GL/2 files, the red data is extracted provided that the P and M pen macros are specified. When printing HP-GL/2 files with the 'P' pen macro, the internally-defined HP-GL/2 colors control the density of each primary color printed.

For all other vector file formats (i.e., CalComp, DWG, and DGN), using the Job Editor, Job Client or the PFS file, set the pen you wish to print in red to six (6) and use the M pen macro.

On single-color printers, colors other than pure black or red are converted to a shade of gray or to black, depending on the pen macros used. If you print in gray scale, you get different shades of gray depending on how dark the color is. RGB colors are converted to CMYK for printing. Yellow is lightest, cyan is medium, and magenta is darkest.

When a two-color mode is specified for the XES 8180 or MAX 200 (by using the M pen macro), the Printer Interface converts an equal percentage of yellow and magenta into the same percentage of red. The leftover yellow or magenta is converted to a shade of black.

Color selections come either from the Pen info in the Job Editor and PFS or from HP-GL/2 files. The Job Editor/PFS only support the following colors:

0/blank	Black	Black on XES 8180 or MAX 200
1	Black	Black on XES 8180 or MAX 200
2	Cyan	Lighter on XES 8180 or MAX 200
3	Magenta	Darkest on XES 8180 or MAX 200
4	Yellow	Lightest on XES 8180 or MAX 200
5	Blue	Lighter on XES 8180 or MAX 200
6	Red	Red on XES 8180 or MAX 200
7	Green	Dark on XES 8180 or MAX 200
8	Black	Black on XES 8180 or MAX 200

---

9            White            White on XES 8180 or MAX 200

This is true for all supported color printers as well.

### **Color Planes**

The Printer Interface generates a separate raster image for each color the printer prints. This is called a 'Color Plane.' For single color prints, only one color plane is needed -- either black or red. But for two-color prints the Printer Interface needs to create two color planes, so twice as much memory on the PC and twice as much memory on the XES 8180 and MAX 200 are used when generating two-color prints. Up to 208 MB of plot data can be accepted per color plane on the XES MAX 200. It also takes additional time to generate an additional color plane -- about 25-50% longer, and additional time to transmit the additional color plane to the XES 8180 or MAX 200 for printing.

### **MAX 200 and 8180 Color Performance Limitations**

The MAX 200 and the 8180 have special performance limitations when using color. Black and white prints can generally be printed full speed on the MAX 200 and the 8180. However, color prints require sending twice as much data over a SCSI interface that is already bandwidth limited. The MAX 200 and the 8180 can only contain up to 66MB of plot data. Plot data for each drawing is stored until that drawing exits the MAX 200 or the 8180. Color prints require twice as much memory. This means the MAX 200 and the 8180 become limited in speed for color prints because they can only hold two D-size prints. This means if you send ten D-size color prints only two will be received. The first print must exit the MAX 200 and the 8180 before the third can be received, and so on. This creates significant delays. About seven D-size color prints per minute can be generated as opposed to 16 per minute black.



*If a drawing only uses red and no black there is no speed penalty as there is only one plane used.*

---

The Printer Interface will evaluate all of the colors used in a print and only generate the color planes needed for these colors. (If you want to force a drawing to be generated in Black you can put a 'B' in the Pen Macro in the Job Editor). This means there is no disadvantage if the entire print uses only colors that can be generated in one plane on the selected device, for example, drawings that are all red or shades of red on the 8180.

---





*Currently the Printer Interface automatically determines the color planes required only when they are specified in the Job Editor or PFS files. When using the HP-GL/2 pen macro it is not automatic and the Printer Interface defaults to generate only Black. This can be overridden by using an 'M' in the Pen Macro field.*

---

If an entire color print does not require a black pass then crop marks and labels will be generated in a color available in passes that were generated.

### **Patterns Used**

The Printer Interface has 100 patterns that generate halftones from 0-100% in 1% steps. These patterns are automatically used to generate color. They are selected in the Pattern field of the Job Editor (see page 4-33), or in the PFS file (see page Appendix D-7) by entering a percentage. The patterns are randomly generated.

### **Printing CALS or TIFF Files with Patterns or in Color**

CALS and TIFF files do not have pens like an HP-GL or CALCOMP file. For these files use Pen #1 to define patterns and colors. If Pen #1, on a raster file, is set to color 6, 50% it will print 50% red.

Also note that TIFF color files using LZW compression are not supported.

### **Printing Postscript or PDF files in Color**

To print Postscript or PDF files with color use the “M” pen macro. While this is slightly slower the results will be better.

### **Red and Black Printing Options**

The MAX 200 and the 8180 can print red and black copies of color files. The RK Color Model Specific tab window contains options to control how these colors are printed. For more information on this option refer to “The RK Color Model Specific Tab Window” on page 8-37

### **Accessing the RK Color Model Specific tab window:**

1. Open the Printer Interface if it is not already open.
  2. Click on the **Setup** file menu.
  3. Click on the **Advanced Options** menu item. This opens the Advanced Options window.
  4. Click on the **RK Color Model Specific** tab. This displays the RK Color Model Specific tab window.
-

### Hardware Stamping on the XES 8180 and the MAX 200

Stamping is similar to an overlay in terms of PlotWorks' functionality. A hardware stamp is a graphic image that is predefined in the printer. (See Xerox ES8180/MAX 200 User Guide for further details on manipulating stamps.) For PlotWorks to use a stamp in prints, first load the stamp in to active memory on the printer if it does not already exist. Note that the stamp must be reloaded if the printer/scanner is turned off.

The optional parameters for stamping are:

- **ROTATION** - <0, 90, 180, 270> The Default is 0 (zero) if entry is missing or invalid
- **DATE** - <YES>, An ASCII text string ten characters long. YES will put in the local date (formatted based on the settings Windows was configured to use); use any ten ASCII characters. The Default is no date if this entry is missing or invalid.
- **COLOR** - <RED>. The default is black if entry is missing or invalid.
- **NUMBER** - <SET, an ASCII text string 8 characters long>. The Default is no number if entry is missing or invalid.

Every parameter must be followed by an equals sign (=) and a setting. Use a comma to separate each parameter and setting.



---

*DATE and Number are mutually exclusive. They use the same printing area.*

---

You can manually set the X and Y positions to specify where on the image the stamp is printed. The units of measure in the Overlay tab are dependant on the units selected in the Preferences dialog box. The X position can be set from 0-999 millimeters (39 in) and the Y position can be set from 0-9999 millimeters (393 in). If the stamp is set in an X or Y position beyond these parameters, the image will print cropped.

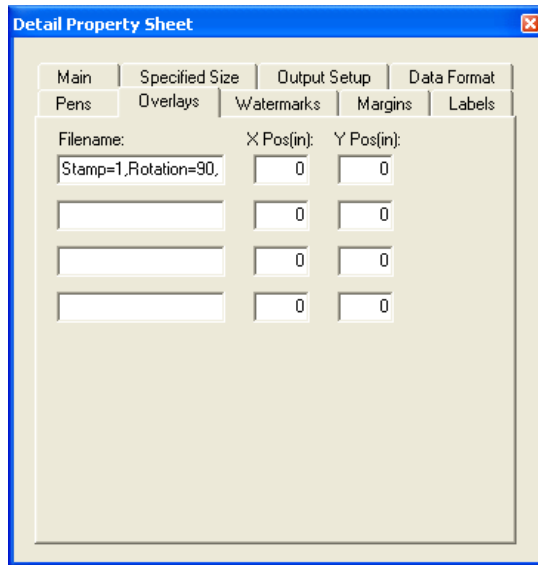


---

*If you specify a position outside the boundaries of the printed image, or if the raster stamp is too large to fit on the image, the printer will print the job without displaying an error message, but the stamp will not appear on the image.*

---

### 8.32 Hardware Stamping



## **XEROX WIDE FORMAT 8825, 8830, & 8850** Printer Interface Options

These Printer Interfaces provide the following notices:

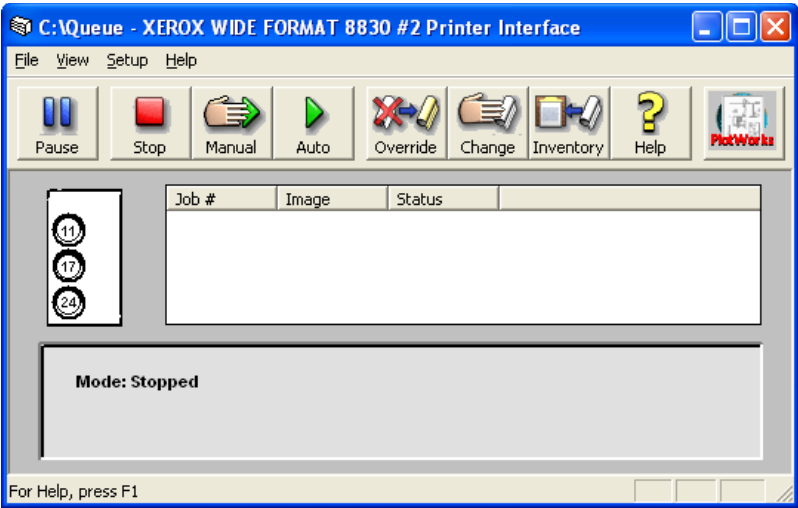
- Printer Warming                      Doors open
- Toner empty                              Waste toner full

The status box also displays notices and error messages. These include:

- Paper jams
- Folder jams
- Printer is in Power Save mode
- In menu (the printer was taken offline at the front panel)
- Printer is off or is not connected

The Printer Diagram illustrates media moving off the roll and out of the printer as each job is printed.

8.33  
8830  
Printer  
Interface



## Xerox 8840D/Fuji Xerox 4024 Printer Interface Options

The 8840D/4024 Printer Interface, shown below in Fig. E.3, provides the following notices in the Status Box, as well as on the Printer Diagram:

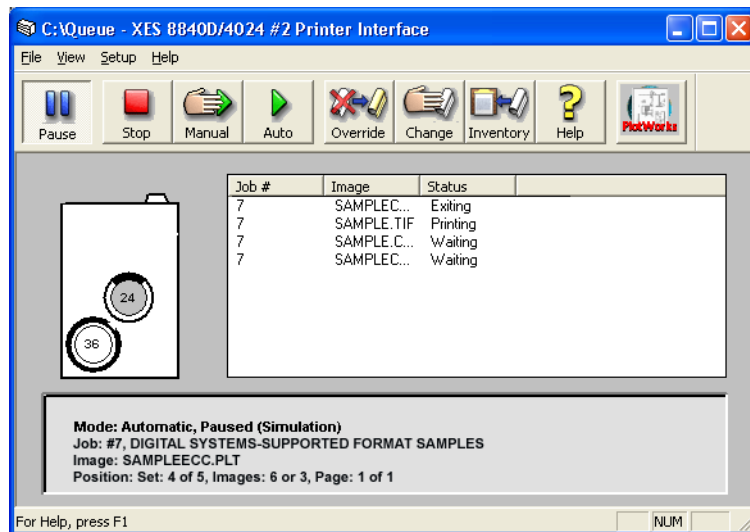
- Printer Warming
- Doors open
- Toner empty (also causes an audible warning beep)
- Waste toner full (also causes an audible warning beep)

The status box also displays notices and error messages that will not show up on the Printer Diagram:

- Paper jam (also causes an audible warning beep)
- Printer is in Power Save mode
- In menu (the printer was taken offline at the front panel)
- Printer is off or is not connected

The Printer Diagram for the 8840D can illustrate media moving off the roll and out of the printer as each job is printed.

8.34  
8840D/  
4024  
Printer  
Interface



## **Xerox 8845/Fuji Xerox 4036 Printer Interface Options**

The 8845/4036 Printer Interface, shown below in Fig. E.4, provide the following notices in the Status Box, and on the Printer Diagram:

- Printer Warming
- Doors open
- Toner empty (causes an audible warning beep)
- Waste toner full (causes an audible warning beep)

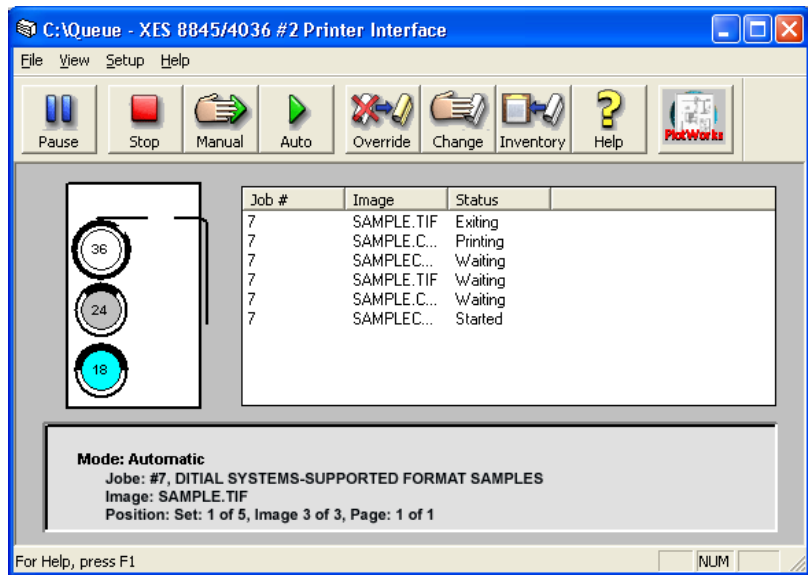
The status box also displays notices and error messages that will not show up on the Printer Diagram:

- Printer is off or is not connected
- Paper jam (causes an audible warning beep)
- Folder jam
- Printer is in Power Save mode
- In menu (the printer was taken offline at the front panel)
- Media out or mismatched to job (causes an audible warning beep)

The Printer Diagram for the 8845 displays media moving off the rolls and out of the printer as each job is printed.

---

8.35  
8845/4036  
Printer  
Options



## Pen Widths

The 8845 printer supports changing pen widths. Using the Printer Interface you can reduce pen widths by one pixel. To do so:

5. Click on the **Setup** menu
6. Select **Device Specific Options**.
7. Select the **Reduce pen widths** check box.

## Using a Folder with the 8845

The 8845 Folder must have the appropriate fold card inserted in order to work properly. Up to two fold cards can be inserted at one time. Refer to the Operator Manual for the Xerox 8845 Folder for more information.

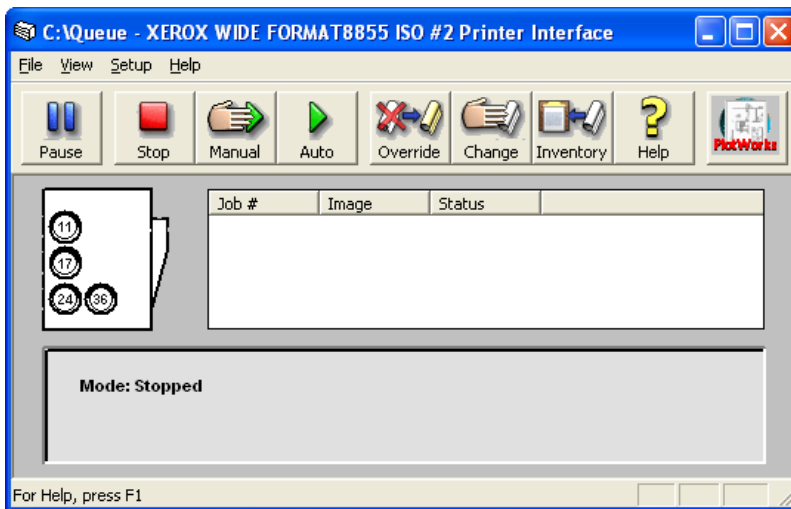
## XEROX WIDE FORMAT 721p, 8855 and KIP 8000

The XEROX WIDE FORMAT 721p, the XEROX WIDE FORMAT 8855 and the KIP 8000 Printer Interfaces display the following notices in the Status Box or on the Printer Diagram:

- Printer Warming
- Doors open (causes an audible warning beep)
- Paper jam (causes an audible warning beep)
- Out of toner (causes an audible warning beep)
- Waste toner full (causes an audible warning beep)
- Media out or mismatched to job (causes an audible warning beep)

The Printer Diagram for these printers illustrates media moving off the roll and out of the printer as each job is printed in real-time.

8.36.  
8855  
Printer  
Interface



### Pen Patterns

100 new patterns that generate halftones from 0-100% in 1% steps are supported. These patterns are used to automatically generate color. They are selected in the Pattern field of the Job Editor (see page 4-33), or in the PFS file (see page Appendix D-7) by entering a percentage.

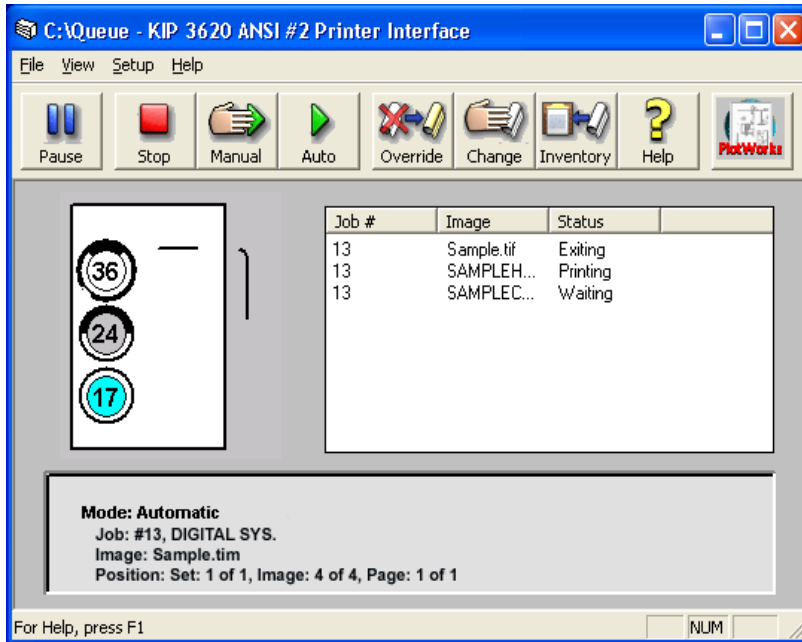


### **Printing PDF files**

To print PDF files set Output Quality Level to “Best” from the **Detail Property Sheet/Output Setup** tab window. Otherwise the print output may be lighter than expected.

## KIP 3620 Printer Interface Options

8.37  
3620  
Printer  
Interface



The KIP 3620 Printer Interface, provides the following notices in the Status Box, and on the Printer Diagram:

- Doors open (also causes an audible warning beep)
- Paper jam (also causes an audible warning beep)
- Toner empty (also causes an audible warning beep)
- Waste toner full (also causes an audible warning beep)

The status box also displays notices and error messages that will not show up on the Printer Diagram:

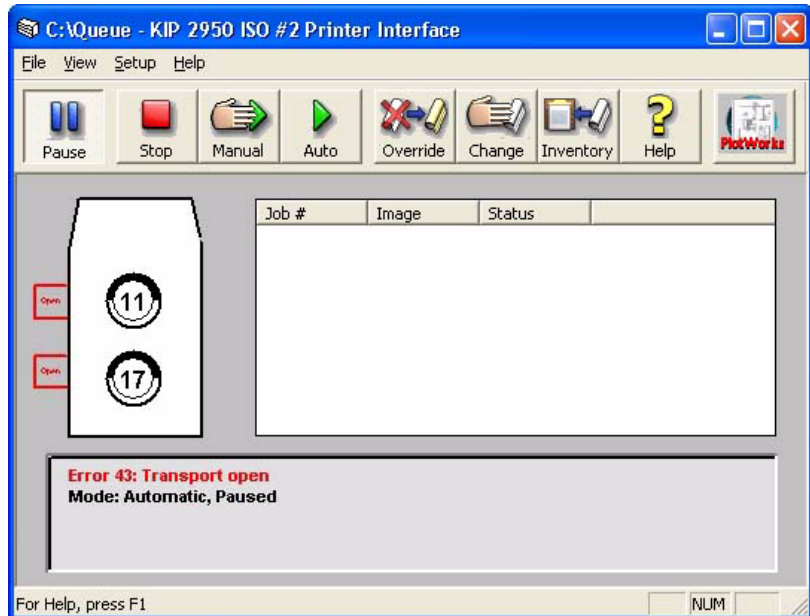
- Printer warning
- Printer is off or is not connected

The Printer Diagram for the 3620 displays media moving off the rolls and out of the printer as each job is printed.

When a printer door, besides the media doors/drawers, is open the Printer Interface displays “Door open.”

## KIP 2950 Options

8.38  
KIP 2950  
Printer  
Interface  
indicating  
that draw-  
ers are  
open



The KIP 2950 Printer Interface, shown in Fig. E.6, provides the following notices in the Status Box, as well as on the Printer Diagram:

- Doors open (causes an audible warning beep)
- Paper jam (causes an audible warning beep)
- Toner empty (causes an audible warning beep)
- Waste toner full (causes an audible warning beep)

The status box also displays notices and error messages that will not show up on the Printer Diagram:

- Printer warming
- Printer is off or is not connected

The Printer Diagram for the 2950 displays media moving off the rolls and out of the printer as each job is printed.

### Additional Information

When a printer door (except media doors/drawers) is open the Printer Interface displays “Door open.”

## KIP 1230 Options

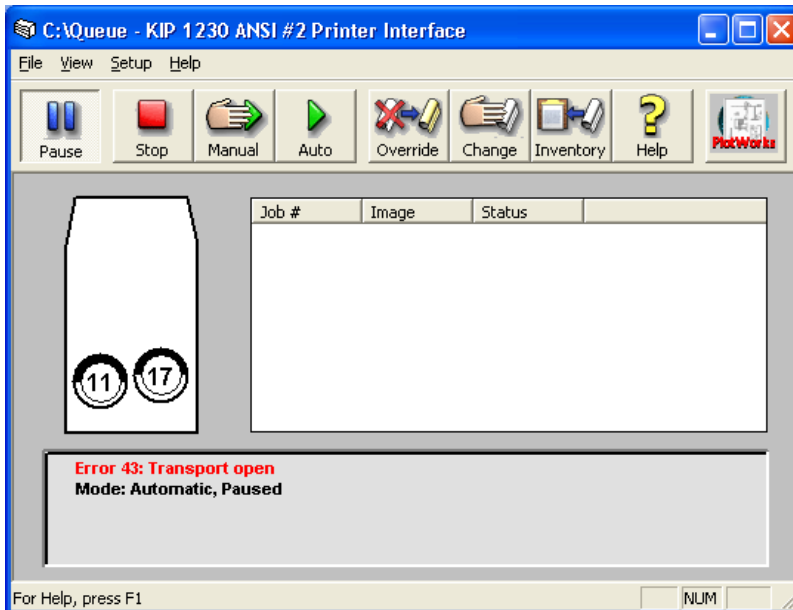
The KIP 1230 Printer Interface, shown in Fig. E.7, provides the following notices in the Status Box, as well as on the Printer Diagram:

- Toner empty (causes an audible warning beep)
- Waste toner full (causes an audible warning beep)

The status box also displays notices and error messages that will not show up on the Printer Diagram:

- Printer warming
- Doors open (causes an audible warning beep)
- Paper jam (causes an audible warning beep)
- Printer is off or is not connected

8.39  
1230  
Printer  
Interface  
indicating  
a drawer is  
open.



The Printer Diagram for the 1230 displays media moving off the rolls and out of the printer as each job is printed.

When a door is open on the printer, the Printer Interface displays “Transport open.”

## KIP 7095 Options

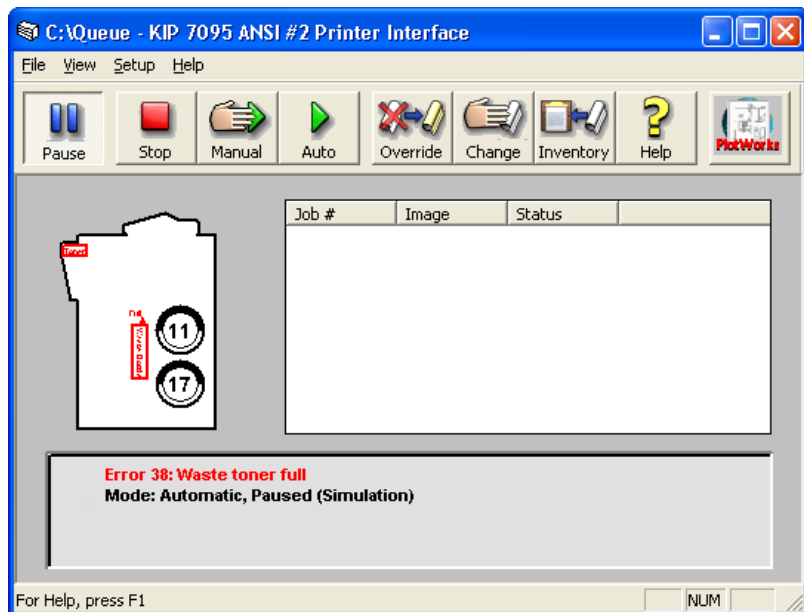
The KIP 7095 Printer Interface provides the following notices in the Status Box, as well as on the Printer Diagram:

- Toner empty (causes an audible warning beep)
- Waste toner full (causes an audible warning beep)

The status box also displays notices and error messages that do not display on the Printer Diagram:

- Printer warming
- Doors open (also causes an audible warning beep)
- Paper jam (also causes an audible warning beep)
- Printer is off or is not connected

8.40  
7095  
Printer  
Interface  
indicating  
Toner  
problems.



The Printer Diagram for the 7095 is able to depict the media moving off the rolls and out of the printer as each job is printed. This is a useful real-time feature — however, not all printers report this information to PlotWorks.

When a door is open on the printer, the Printer Interface displays “Transport open.”

## KIP 9010 Options

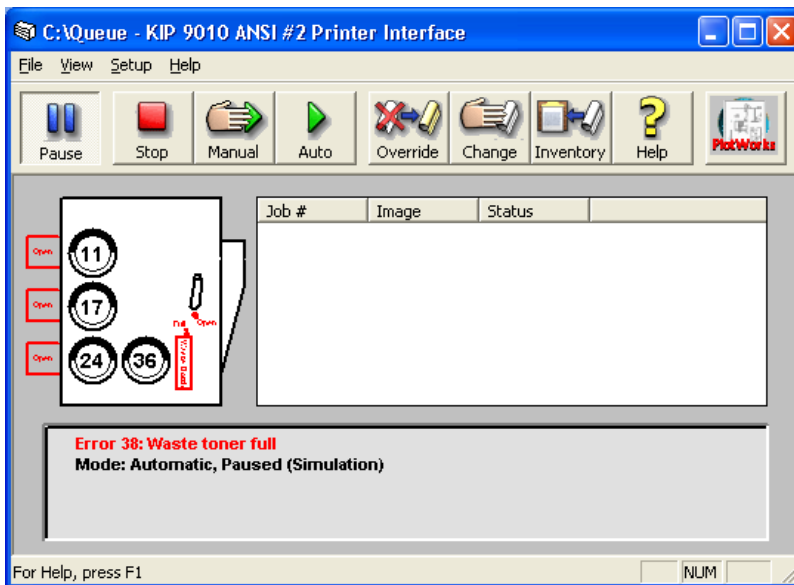
The KIP 9010 Printer Interface provides the following notices in the Status Box, as well as on the Printer Diagram:

- Printer warming
- Doors open (causes an audible warning beep)
- Paper jam (causes an audible warning beep)
- Toner empty (causes an audible warning beep)
- Waste toner full (causes an audible warning beep)

The status box also displays notices and error messages that will not show up on the Printer Diagram:

- Printer is off or is not connected

8.41  
9010  
Printer  
Interface  
showing  
all the  
drawers  
open and  
that the  
waste toner  
is full.



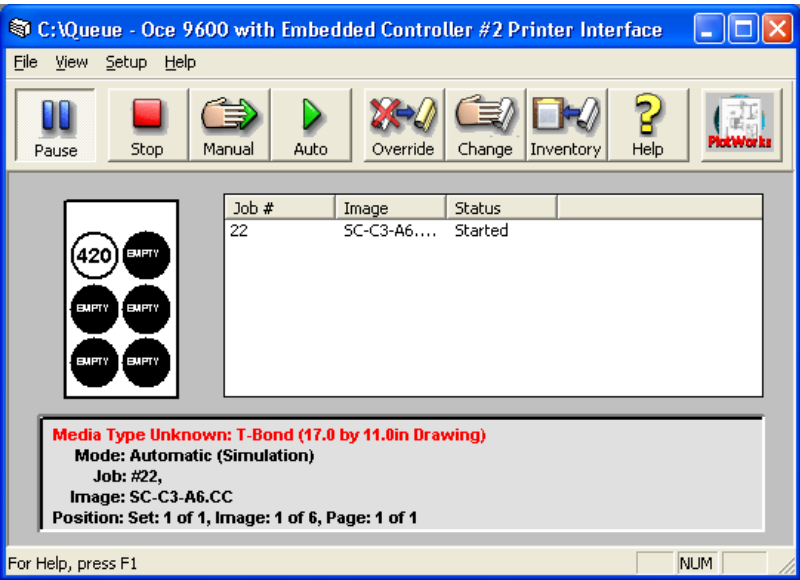
The Printer Diagram for the 9010 displays media moving off the rolls and out of the printer as each job is printed.

When a door is open on the printer, PlotWorks indicates which door. The Printer Information box also displays “Transport open.”

## Océ 9600 Printer Interface Options

The Océ 9600 Printer Interface, Printer Diagram always shows the media rolls as full. Paper moving through the printer is not indicated. The Status Box informs you when media needs adding or if a media mismatch error occurs. An audible warning beep also sounds.

8.42Océ  
9600  
Printer  
Options



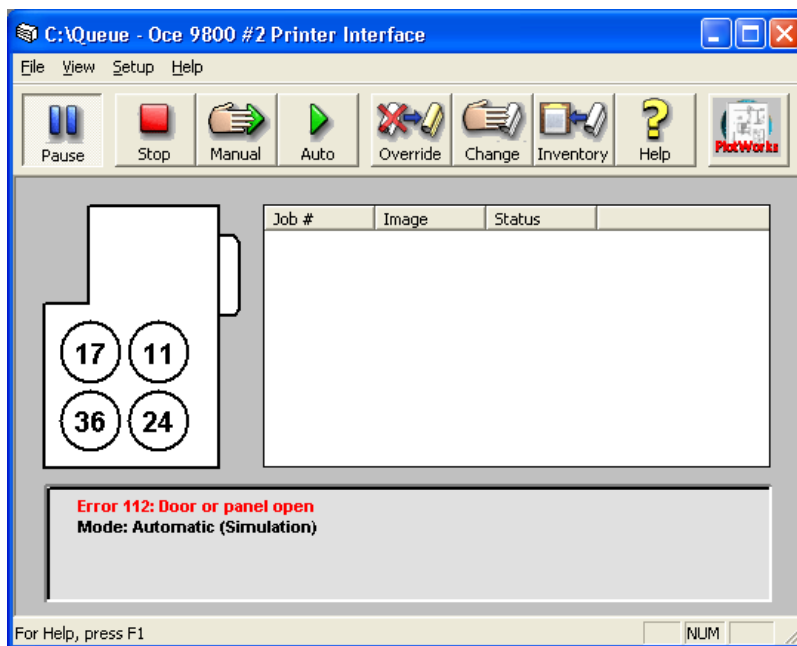
## Océ 9800 Options

The Océ 9800 Printer Interface provides the following notices in the Status Box:

- Printer Warming
- Door or panel open
- Add media or media mismatch (causes an audible warning beep)

The Printer Diagram for the 9800 displays the media rolls as always full and does not display paper moving through the printer.

8.43 Océ  
9800  
Printer  
Options



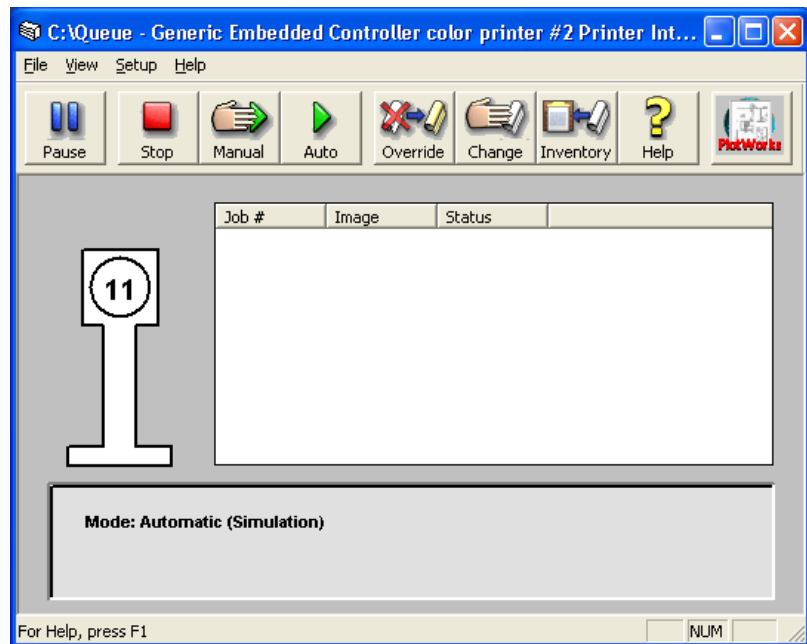


## Generic Embedded Controller Printers

The RTL Printer Interface supports both color and monochrome printers. The Status Box only warns you if you need to add media or a media mismatch error occurs. An audible warning beep is then also heard.

The RTL Printer Interface drawing displays the media rolls as always full.

8.44  
RTL  
Printer  
Interface



### Selecting a Different Printer Interface from an open one

With the HP-RTL Printer Interface open, you can select the desired printer from a list of printers installed on the network, if any.

1. In the Device Specific Options dialog, use the **Printer name:** pull-down list and select the desired RTL printer.
2. Click **OK**. Remember to set up the media inventory if this is the first time to use this printer.

This makes it easy to switch between network printers if one is busy.

### **Change from a Color to a Monochrome Printer**

With the HP-RTL Printer Interface open, select **General Configuration** from the **Setup** menu. Use the pull-down list in the **Printer type:** field to select **RTL color printer** or **RTL monochrome printer**. You will be prompted to close the Printer Interface and then reopen it so the change can take effect.

## Socket Printers

Socket printers are those printers that require a TCP/IP address. These include the AccXES Controller and the Océ Power Logic Controller driven printers and the Kyocera Mita 4850w. When installing these printers you need to enable LMHOSTS Lookup and know the IP Address for the computer containing the Controller. If using the AccXES controller ensure you are running firmware 6.5 or greater.

### Enable LMHOSTS Lookup

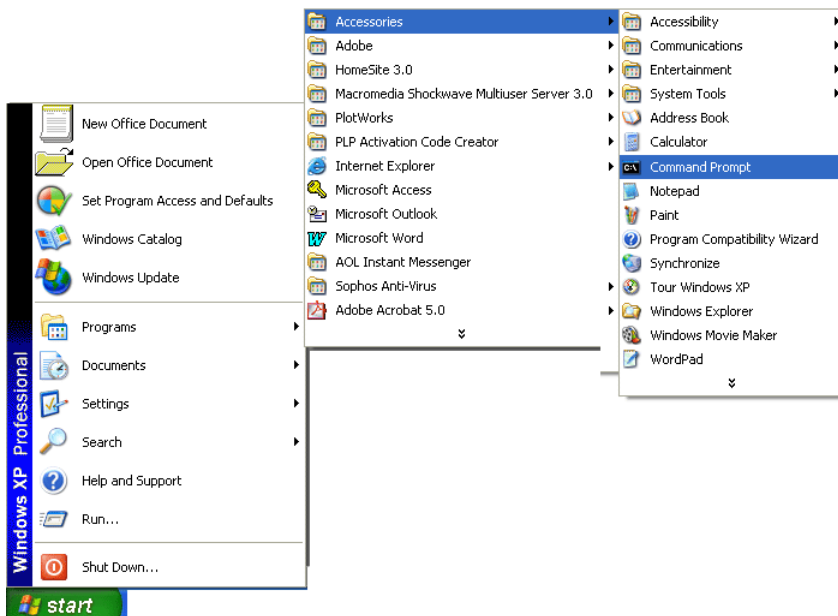
1. Close all open applications ensuring that your work is saved.
2. Right click on **Network Neighborhood** on your Windows desktop.
3. Select **Properties** from the right click menu. The Network tabbed dialog box opens.
4. Click on the **Protocols** tab.
5. Click on **TCP/IP Protocol** to select it.
6. Click on the **Properties** button. The Microsoft TCP/IP Properties tabbed dialog box opens.
7. Click on the **WINS Address** tab.
8. Ensure that the **Enable LMHOSTS Lookup** check box is selected.
9. Click on the **OK** button. The Microsoft TCP/IP Properties tabbed dialog box closes.
10. Click on the **Close** button. The Network tabbed dialog box closes and a Network Settings Change dialog box opens.
11. Click on the **Yes** button. Your computer will shut down and then restart.

### Obtaining the IP Address:

1. Click on the Windows **Start** button.
  2. Click **All Programs** from the Windows Start menu.
  3. Click on **Accessories**.
-

## 8.45

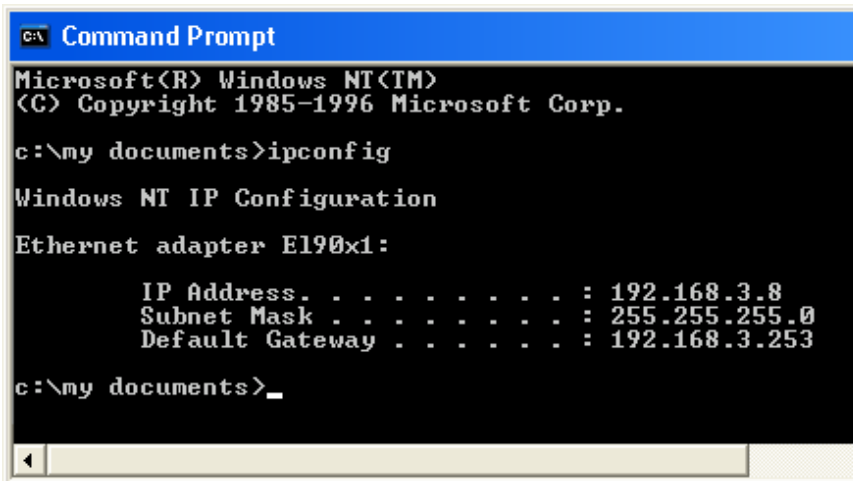
*Command Prompt selected from the Windows Programs menu*



4. Select **Command Prompt** from the Accessories menu. The Command prompt window opens.
5. If you are working on the computer containing the Controller, type **ipconfig**

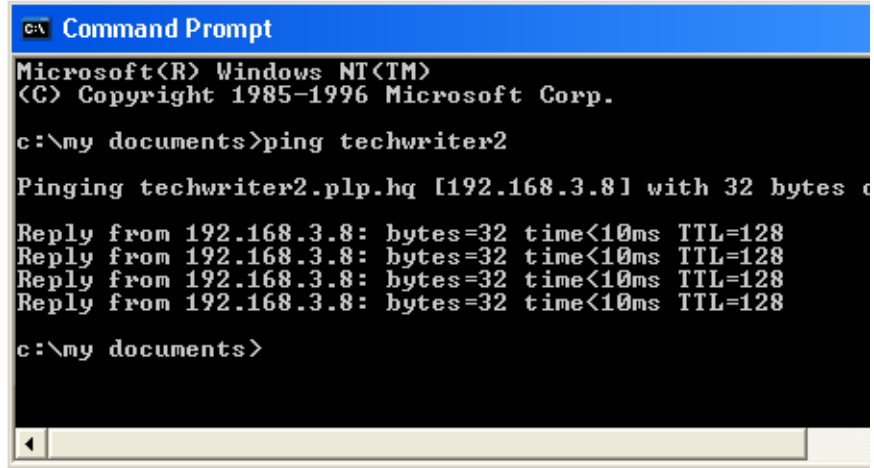
## 8.46

*Command Prompt listing the IP Address using the ipconfig method*



If you are on a computer connected to the same network as the one containing the Controller and you know the name of the computer containing the Controller, type **ping**, then a space and then the name of the computer containing the Controller.

8.47  
*Command  
Prompt  
listing the  
IP Ad-  
dress using  
the ping  
method*



```
C:\> Command Prompt
Microsoft(R) Windows NT(TM)
(C) Copyright 1985-1996 Microsoft Corp.

c:\my documents>ping techwriter2

Pinging techwriter2.plp.hq [192.168.3.8] with 32 bytes of data:

Reply from 192.168.3.8: bytes=32 time<10ms TTL=128
Reply from 192.168.3.8: bytes=32 time<10ms TTL=128
Reply from 192.168.3.8: bytes=32 time<10ms TTL=128
Reply from 192.168.3.8: bytes=32 time<10ms TTL=128

c:\my documents>
```

6. Press **Enter** on your keyboard. The Command prompt window will list the IP address. Write the IP Address down.

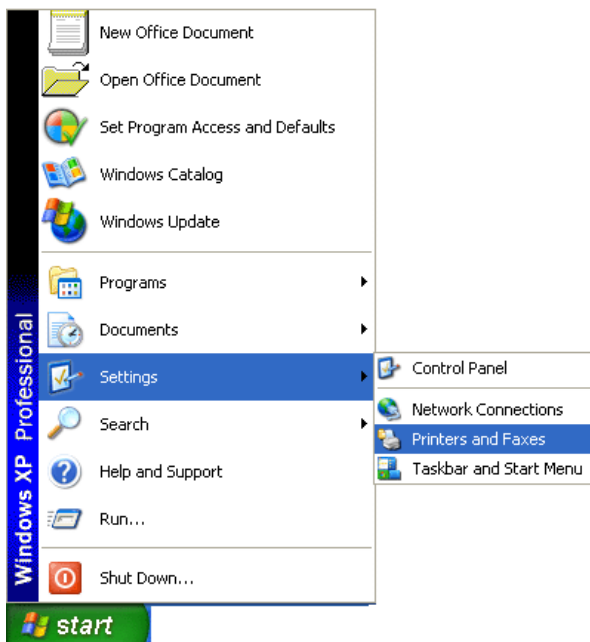
### Adding a printer using the Windows Add Printer utility

The Kyocera Mita and Océ controllers require that you add the printer using Windows Add Printer utility. Instructions for doing so are provided below:

1. Click on the Windows **Start** button.
2. Click on **Settings** from the Windows Start menu.

8.48

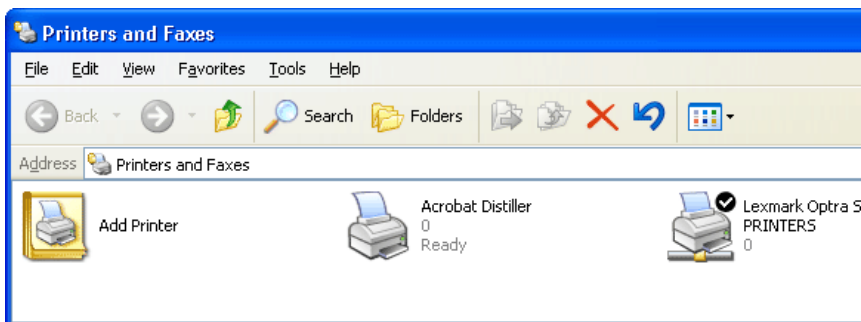
*Printers  
option se-  
lected from  
the Set-  
tings menu*



3. Click on **Printers** from the Settings menu.
4. Then select **Add Printers**. The Printers window opens.

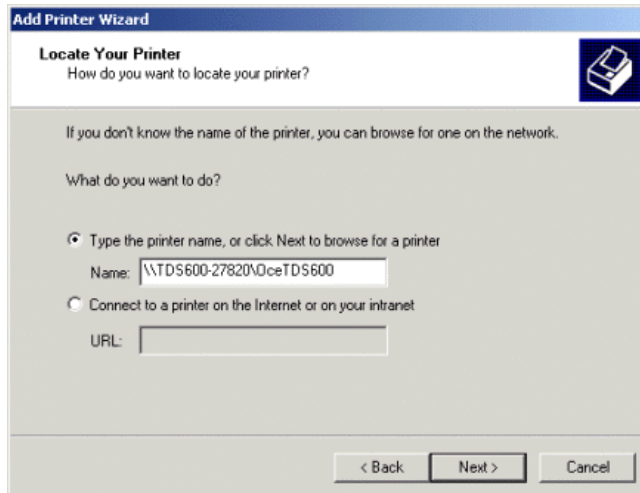
8.49

*Printers  
window*



5. Double click on **Add Printer**. The add Printer Wizard dialog box opens
6. Select the radio button for **Network Printer**.
7. Click on the **Next** button.

**8.50**  
**Locate**  
**Your**  
**Printer**  
*step of the*  
**Add Print-**  
**er Wizard**



8. Select the radio button titled **Type the printer name, or click Next to browse for a printer**.
9. In the **Name** field enter your printers name if you know it otherwise skip to the next step.
10. Click on the **Next** button. The Connect to Printer dialog box opens.
11. Select your printer from the Shared Printers option box.
12. Click on the **OK** button.
13. Choose not to make this printer your default printer by selecting the **No** radio button.
14. Click on the **Finish** button.

## **AccXES Controller Driven Printers**

The AccXES Controller runs the XEROX WIDE FORMAT 8825, 8830, 8850, 8855, 721p and the 510dp.

PlotWorks supports printer and roll status, automatic media rollover, optimized submission, printing, and folding options using the AccXES Controller.

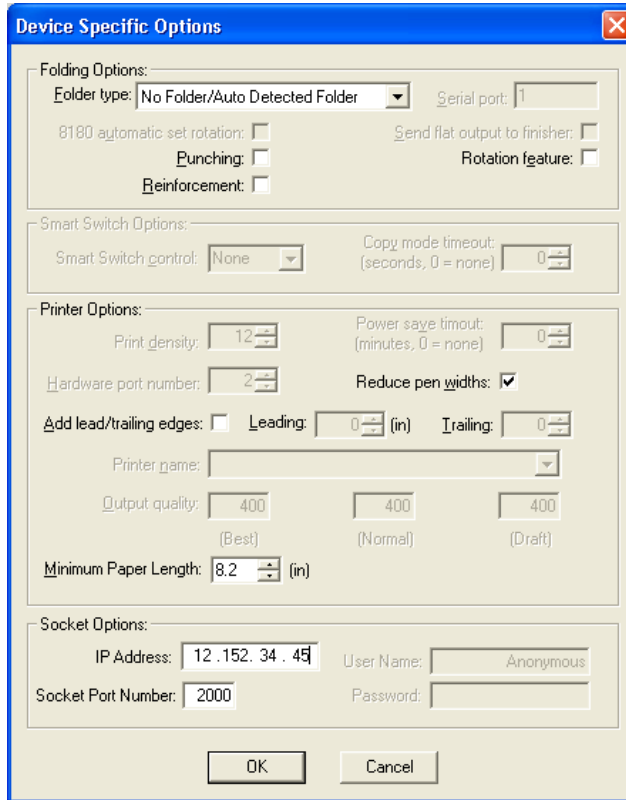
PlotWorks connects to the AccXES controller using TCP/IP. Each print is sent as an individual file to the AccXES Job Queue with a print priority of 8. The AccXES Job Queue allows a maximum of 10 Job Queue entries.

### **Configure the Printer Interface for the AccXES Controller**

1. Open the **Printer Interface** if it is not already open.

2. Click on the **Setup** menu.
3. Click on **Device Specific Options**. The Device Specific options dialog box opens.

**8.51**  
*Device  
 Specific  
 Option di-  
 alog box*



The **Device Specific Options** dialog box is divided into several sections:

- Folding Options:**
  - Folder type: **No Folder/Auto Detected Folder** (dropdown)
  - Serial port: **1** (text box)
  - 8180 automatic set rotation: ☐
  - Send flat output to finisher: ☐
  - Punching: ☐
  - Rotation feature: ☐
  - Reinforcement: ☐
- Smart Switch Options:**
  - Smart Switch control: **None** (dropdown)
  - Copy mode timeout: (seconds, 0 = none) **0** (spin box)
- Printer Options:**
  - Print density: **12** (spin box)
  - Power save timeout: (minutes, 0 = none) **0** (spin box)
  - Hardware port number: **2** (spin box)
  - Reduce pen widths: ☒
  - Add lead/trailing edges: ☐
    - Leading: **0** (spin box) (in)
    - Trailing: **0** (spin box) (in)
  - Printer name: (dropdown)
  - Output quality: **400** (Best), **400** (Normal), **400** (Draft)
  - Minimum Paper Length: **8.2** (spin box) (in)
- Socket Options:**
  - IP Address: **12 . 152 . 34 . 45** (text box)
  - User Name: **Anonymous** (text box)
  - Socket Port Number: **2000** (text box)
  - Password: (text box)

Buttons: **OK**, **Cancel**

4. In the text box titled **IP Address** enter the IP Address. Instructions for obtaining an IP Address are available under the heading “Obtaining the IP Address:” on page 8-67
5. In the text box titled **Socket Port Number**, enter the Socket Port Number. The default port number is 2000. If you are unable to connect to your AccXES Controller with this port number contact XEROX or PLP tech support.
6. Click on the **OK** button



## Océ Power Logic Controller Driven Printers

The Océ Power Logic Controller runs the TDS400, TDS600, and the TDS800 printers.

Please note that the Manual feed option does not work with this controller.

### Installing Océ Power Logic Controller driven printers

Images are sent to the Océ printer via a windows printer connection. Therefore it is necessary to use the Windows Add Printer utility to add the printer to the computer running the Printer Interface first. (Appendix E contains detailed instructions on how to add a printer.)

### Configure the Printer Interface for the Océ Power Logic Controller

1. Open the **Printer Interface** if it is not already open.
2. Click on the **Setup** menu.

#### 8.52 Device Specific Options

**Device Specific Options**

**Folding Options:**

Folder type: No Folder/Auto Detected Folder Serial port: 1

8180 automatic set rotation: ☐ Send flat output to finisher: ☐

Punching: ☐ Rotation feature: ☐

Reinforcement: ☐

**Smart Switch Options:**

Smart Switch control: None Copy mode timeout: 0 (seconds, 0 = none)

**Printer Options:**

Print density: 12 Power save timeout: 0 (minutes, 0 = none)

Hardware port number: 1 Reduce pen widths: ☒

Add lead/trailing edges: ☐ Leading: 0 (in) Trailing: 0 (in)

Printer name: \\TDS600-27820\OceTDS600

Output quality: 300 300 300  
(Best) (Normal) (Draft)

Minimum Paper Length: 8.2 (in)

**Socket Options:**

IP Address: 13 . 239 . 99 . 55 User Name: Anonymous

Socket Port Number: 2000 Password:

OK Cancel

3. Click on **Device Specific Options**. The Device Specific options dialog box opens.
4. Ensure that your printers name appears in the text box titled **Printer name**.
5. In the text box titled **IP Address** enter the IP Address. Instructions for obtaining an IP Address are available under the heading, “Obtaining the IP Address:” on page 8-67.
6. In the text box titled **Socket Port Number**, enter the Socket Port Number. The default port number is 2000. If you are unable to connect to your AccXES Controller with this port number contact PLP tech support.
7. If your printer uses a PDF controller, the Username and Password fields are available. In this case, enter values for these fields
8. Click on the **OK** button.

### **Kyocera-Mita Controller**

The Kyocera-Mita controller runs the 4850w printer. This controller requires that the Windows printer driver be installed using Windows Add Printer utility. (8Appendix E contains detailed instructions on how to do so.) This driver is available on the CD that came with the printer.

PlotWorks communicates with this controller using SNMP, ports 60-61. This connection provides bi-directional support on roll information and printer status.

In order for the Kyocera-Mita controller to function properly, either connect the Kyocera-Mita controller directly to the PlotWorks printer or ensure that port 80 is open on the network.

### **Configure the Printer Interface for the Kyocera-Mita Controller**

1. Open the **Printer Interface** if it is not already open.
  2. Click on the **Setup** menu.
  3. Click on **Device Specific Options**. The Device Specific options dialog box opens.
-

### 8.53 Device Specific Options

**Device Specific Options**

**Folding Options:**  
 Folder type:  Serial port:   
 8180 automatic set rotation: ☐ Send flat output to finisher: ☐  
 Punching: ☐ Rotation feature: ☐  
 Reinforcement: ☐

**Smart Switch Options:**  
 Smart Switch control:  Copy mode timeout:   
 (seconds, 0 = none)

**Printer Options:**  
 Print density:  Power save timeout:   
 Hardware port number:  (minutes, 0 = none)  
 Reduce pen widths: ☒  
 Add lead/trailing edges: ☐ Leading:  (in) Trailing:  (in)  
 Printer name:   
 Output quality:     
 (Best) (Normal) (Draft)  
 Minimum Paper Length:  (in)

**Socket Options:**  
 IP Address:  User Name:   
 Socket Port Number:  Password:

OK Cancel

4. Ensure that your printers name appears in the text box titled **Printer name**.
5. In the text box titled **IP Address** enter the IP Address. Instructions for obtaining an IP Address are available under the heading, “Obtaining the IP Address:” on page 8-67.
6. Click on the **OK** button.

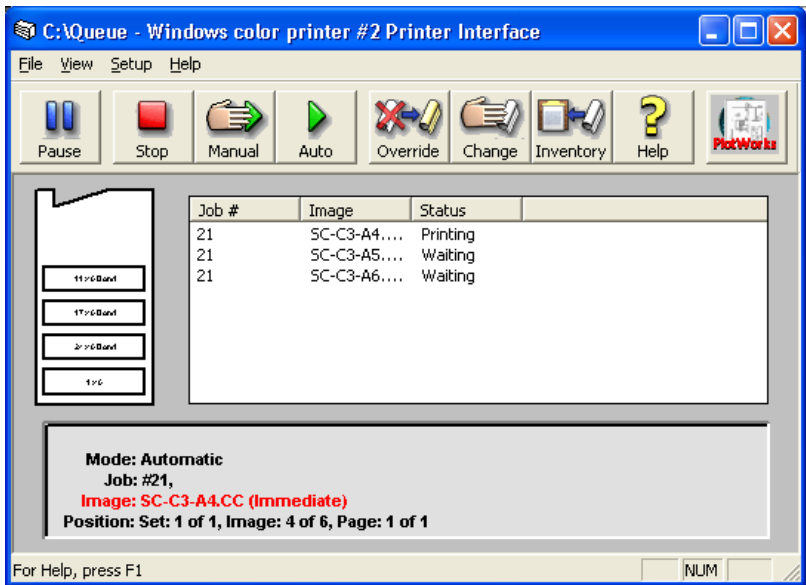
# Windows Printers

The Windows Printer Interface, shown in Fig. E.14, supports both color and monochrome printers. The Status Box provides the following notice only:

- Add media or media mismatch (causes an audible warning beep)

The Windows Printer Diagram resembles a laser printer with four media trays. Windows printers do not generally report what percentage of paper has been used, therefore the Printer Interface displays the trays as always full.

8.54  
*Windows  
Printer  
Interface  
(color)*



## Selecting a Windows Printer

With the Printer Interface open, you can select the desired printer from a list of printers installed on the network, if any.

1. From the **Setup** menu, select **Device Specific Options**.
2. In the Device Specific Options dialog, use the **Printer name:** pull-down list and select the desired Windows printer.
3. Click **OK**. Remember to set up the media inventory if this is the first time using this printer.

This makes it easy to switch between network printers if one is busy.

## Change from Color to Monochrome

With the Windows Printer Interface open, select **General Configuration** from the **Setup** menu. Use the pull-down list in the **Printer type:** field to select **Windows color printer** or **Windows monochrome printer**. You will be prompted to close the Printer Interface and then reopen it so the change can take effect.

## Paper Sizes Supported by Windows Printers

PlotWorks supported supports the following sizes on Windows printers:

<b>Media Type</b>	<b>Media Size</b>
LETTER	8.5 x 11 inches
LETTER SMALL	8.5 x 11 inches
TABLOID	11 x 17 inches
LEDGER	17 x 11 inches
LEGAL	8.5 x 14 inches
STATEMENT	5.5 x 8.5 inches
EXECUTIVE	7.25 x 10.5 inches
A3	297 x 420 millimeters
A4	210 x 297 millimeters
A4 SMALL	210 x 297 millimeters
A5	148 x 210 millimeters
B4	250 x 354 millimeters
B5	182 x 257 millimeters
FOLIO	8.5 x 13 inches
QUARTO	215 x 275 millimeters
10X14	10 x 14 inches
11X17	11 x 17 inches
NOTE	8.5 x 11 inches
Envelope (9)	3.875 x 8.875 inches
Envelope (10)	4.125 x 9.5 inches
Envelope (11)	4.5 x 10.375 inches
Envelope (12)	4.75 x 11 inches
Envelope (14)	5 x 11.5 inches
C Sheet	17 x 22 inches
D Sheet	22 x 34 inches
E Sheet	34 x 44 inches
Envelope (DL)	110 x 220 millimeters
Envelope (C5)	162 x 229 millimeters
Envelope (C3)	324 x 458 millimeters
Envelope (C4)	229 x 324 millimeters
Envelope (C6)	114 x 162 millimeters

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Envelope (C65)	114 x 229 millimeters
Envelope (B4)	250 x 353 millimeters
Envelope (B5)	176 x 250 millimeters
Envelope (B6)	176 x 125 millimeters
Envelope (ITALY)	110 x 230 millimeters
Envelope (MONARCH)	3.875 x 7.5 inches
Envelope (PERSONAL)	6.75 x 6.5 inches
FANFOLD U.S.	14.875 x 11 inches
FANFOLD STD GERMAN	8.5 x 12 inches
FANFOLD LGL GERMAN	8.5 x 13 inches
ISO B4	250 x 353 millimeters
JAPANESE POSTCARD	100 x 148 millimeters
9X11	9 x 11 inches
10X11	10 x 11 inches
15X11	15 x 11 inches
Envelope INVITE	220 x 220 millimeters
RESERVED 48	0 x 0
RESERVED 49	0 x 0
LETTER EXTRA	9.75 x 12 inches
LEGAL EXTRA	9.75 x 15 inches
TABLOID EXTRA	11.69 x 18 inches
A4 EXTRA	9.27 x 12.69 inches
LETTER TRANSVERSE	8.75 x 11 inches
A4 TRANSVERSE	210 x 297 millimeters
LETTER EXTRA TRANSVERSE	9.75 x 12 inches
A PLUS	227 x 356 millimeters
B PLUS	305 x 487 millimeters
LETTER PLUS	8.5 x 12.69 inches
A4 PLUS	210 x 330 millimeters
A5 TRANSVERSE	148 x 210 millimeters
B5 TRANSVERSE	182 x 257 millimeters
A3 EXTRA	322 x 445 millimeters
A5 EXTRA	174 x 235 millimeters
B5 EXTRA	201 x 276 millimeters
A2	420 x 594 millimeters
A3 TRANSVERSE	297 x 420 millimeters
A3 EXTRA TRANSVERSE	322 x 445 millimeters

Please refer to your printer manual for the actual sizes supported by your printer.