

Chapter 5

The Image Viewer

Viewing Image Files

The PlotWorks Image Viewer lets you view and adjust files in your print jobs . You can access the Image Viewer from within the Job Editor or the Scanner Interface.



You can also view images using the Printer Interface but you cannot use the Adjust Size and Adjust Origin editing functions using the Printer Interface.

When you view a file from the Job Editor, the Job Editor processes the selected image and displays it in the Image Viewer window. The Viewer lets you:

- Zoom in and out as you move through the files in a job
- View a file simply by clicking on it in the Job Editor Grid, and then move through all the files in a job with the touch of a button.
- Print the file you are viewing with the touch of a button
- Show or hide individual pens (display only)
- Identify a specific pen
- Adjust the origin of the image
- Adjust the output size
- View the image using a white or black background
- View all pages of a multipage TIFF, HP-GL/2, PostScript or PDF file

The Job Editor's View menu has an option, **Always Use PlotWorks Viewer**, that forces the PlotWorks Image Viewer to open when you select View Image, regardless of the format. Otherwise, you can configure third party viewers to display selected file formats. For instance, you can configure the Job Editor to open Adobe's Acrobat Reader when you select View Image on a .PDF file. See "Configure a Third Party Viewer" on page 4-9 for more information.

Open the Image Viewer

You can view the images in your job tickets and adjust them before printing using the Image Viewer.

To open the Image Viewer in one of two methods:

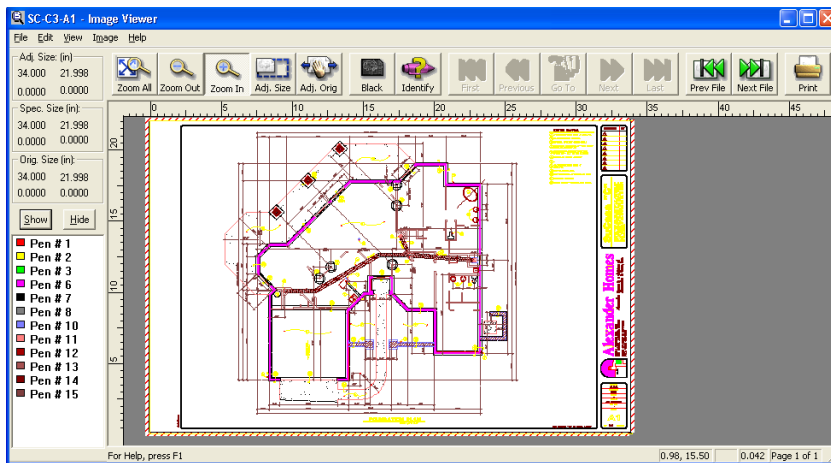
- Double-click on the selected file in the Job Editor
- Select the image you want to view in the Job Editor. Then click on the Job Editor **View button**.



The Job Editor processes the image and displays it in the Viewer outlined with a red and white border.

The Viewer Window

*Fig 5.1
Viewer
Window*



Toolbar Buttons

The following buttons appear on the Image Viewer toolbar:



- **Zoom All:** Fits the entire image in the Viewer window.



- **Zoom Out:** Reduces the display by 50%.



- **Zoom In:** Lets you enlarge a selected area of the display.



- **Adj. Size:** Lets you select a portion of the image to print.



- **Adj. Orig:** Lets you set the origin of the image.



- **Black:** Reverses the background of the displayed image to black, making it easier to view certain colors. For viewing only; black does not print.



- **Identify:** Lets you identify the pens used in a specific area of the image.



- **First:** Displays the first page in a multipage TIFF, PDF, or PostScript image file.



- **Previous:** Displays the page before the current page on the screen.



- **Go To:** Lets you view a specific page in a multipage image file.



- **Next:** Displays the next page in a multipage image file.



- **Last:** Displays the last page in a multipage image file.



- **Prev File:** Displays the previous file in the job.



- **Next File:** Displays the next file in the job.



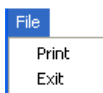
- **Print:** Click this button to immediately print the image open in the viewer.



*To print from the Image Viewer, you must first open the Job Editor or Job Client Processing Options\ Processing tab window and select either the **Send PGS File Only** or the **Send Both PGS and Original Image Files**.*

5.5.1 The File Menu

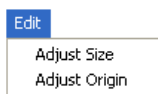
Fig 5.2
The File
menu



- **Print:** Click this menu item to immediately print the image you are viewing.
- **Exit:** Quits the application.

The Edit Menu

Fig 5.3
The Edit
menu



The Edit menu contains commands for editing the image's parameters. The following commands are available under the Edit menu:

- **Adjust Size:** Lets you select a portion of the image to print.
- **Adjust Origin:** Lets you set the origin of the image.

The View Menu

Fig 5.4
The View
menu



The View menu contains commands for changing the appearance of the Viewer window and the displayed image. The following commands are available under the View menu:

- **Toolbar:** Lets you hide or show the toolbar.

- **Status Bar:** Lets you hide or show the status bar.
- **Dialog Bar:** Lets you hide or show the dialog bar.
- **Ruler:** Lets you hide or show the ruler. The units of measure shown on the ruler reflect the units set in the Job Editor preferences.
- **Pixel Ruler:** Changes the ruler units to pixels.
- **Go To Page:** Lets you view a specific page in a multipage image file.
- **Zoom All:** Fits the entire image in the Viewer window.
- **Zoom In:** Lets you enlarge a selected area of the display.
- **Zoom Out:** Reduces the display by 50%.
- **Stop:** Stops the viewing area from painting. This command is useful when you mistakenly zoom in or out of a complex image and do not want to wait for the Image Viewer to redraw the entire image.

The Image Menu

Fig 5.5
The Image
menu

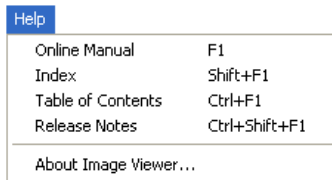


This menu contains commands that let you reverse the white background of the *viewed* image to black and to identify the pens used in an image.

- **Black Paper:** Lets you change the white background of the Image Viewer to black (black pens are inverted to white). This is useful if you want to locate white or light colored pens in a vector file. Raster files do not invert and will display as all black.
 - **Identify Pens:** Lets you move a “locator” cursor over the displayed image (vector images only) and click to identify the various pens used in an area of the image.
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The Help Menu

Fig 5.6
The Help
menu



This menu contains commands for accessing online Help files and program information. The following commands are available under the Help menu:

- **Online Manual:** Opens the online manual to the Viewer chapter
- **Index:** Displays the index of help topics
- **Table of Contents:** Displays the table of contents for the online manual
- **Release Notes:** Displays late-breaking product enhancements and documentation changes.
- **About:** Displays program version and copyright information.

The Viewing Area

The viewing area displays the selected image and shows how it fits on the page at the specified size. You can crop or reposition your images by using the **Adjust Size** command or the **Adjust Origin** command.

- **Adjusted Size:** The final size of an image, as adjusted by the user in the Image Viewer window. The Adjusted Size box in the Viewer shows:
 - Size X/Size Y
 - Origin X/Origin Y
- **Specified Size:** The final size of an image, as specified by the user in the job ticket. The Specified Size box in the Viewer shows:
 - Size X/Size Y
 - Origin X/Origin Y
- **Original Size:** The actual size of the image as read, by PlotWorks, from the image file. The Original Size value is fixed and will not change. The Original Size box in the Viewer shows:
 - Size X/Size Y
 - Origin X/Origin Y

Zoom In or Out

You can enlarge or reduce the image in the viewing area using the three zoom buttons:



- To fit the entire image in the viewing area, click **Zoom All**.
- To zoom out by 50%, click **Zoom Out**.
- To zoom in by 50%, click **Zoom In** and then click once inside the viewing area.
- To zoom in on a specified area, click **Zoom In** and select the area by dragging with your mouse.

Adjust the Size of a Print


The Adjust Size command lets you change the Final Size of your printed sheets from within the Viewer. The Adjust Size command is helpful for cropping images.



The Adjust Size command does not scale the image to fit the area you specify. If your adjusted size is smaller than the extent of the image, the image will be cropped.



To adjust the size of an image:



1. Click **Adj. Size** on the Viewer toolbar. the cursor is outside the image, it changes to a hand: 
2. Click and drag on the image to form a rectangular border around the area you want to print.
3. Use **Adj. Orig**, if necessary, to position the printing area and to fine-tune the edge positions.

Adjust the Origin of a Print

The Adjust Origin tool lets you change the origin of your image. In addition, this tool lets you precisely adjust the edges of your printing area.



To adjust the origin of the printing area:

1. Click **Adj. Orig**. If the cursor is outside the image, it changes to a hand: 
If the cursor is inside the image, it changes to a “crossed arrows” icon: 
2. Drag the printing area (displayed as a black and white rectangle) to the desired position.

When the Adjust Origin tool is selected, each edge and corner of your printing area displays a handle. You can use these handles to resize the printing area and place the edges at the exact coordinates you want.

To adjust the edges of your printing area:

1. Zoom in on the edge or corner you want to adjust.
2. Drag the handle to the desired location with your mouse.

Black Paper

The Black Paper option lets you change the white background of the Image Viewer to black. This makes it much easier to view lighter colors like yellow and orange. The “black” paper is active only when viewing the image – it does not print the image on a black background. It is only for vector images (raster images become completely black).

To enable Black Paper:

1. Click **Black** (or select **Black Paper** from the **Image** menu).
2. The image background changes to black.

To disable Black Paper:

- When you want to turn Black Paper off, click the **Black** button to deselect it.

Show or Hide Pens

The Job Editor lists the pens used in the image on the left side of the Viewer window. You can remove one or more pens from the viewing area by choosing a pen from the list and then clicking **Hide**. Click **Show** to make the pen reappear.



Hiding pens in the Viewer window does not remove them from the print.

Identify Pens

Identify Pens is a handy feature that lets you move a “locator” cursor over the displayed image (vector images only) and identify the various pens used in the image.

**To identify pens in the image:**

1. Click **Identify** (or select **Identify Pens** from the **Image** menu).
The cursor changes to a small square.
2. Move the cursor over the image displayed in the Viewer. Click on the line you want to identify. The pen number displays in a pop-up box.
3. Turn off the Identify feature by clicking any other button to deselect it.

Refresh the Viewer Window

The **Refresh Viewer** command updates the Image Viewer window to reflect any changes made in your job ticket.

To refresh the Viewer:

1. Select the **Job Editor** window to make it active.
2. If you have more than one Image Viewer window open, select the image that you want to update.
3. Open the **View** menu and select **Refresh Viewer**.

Configure a Third Party Viewer

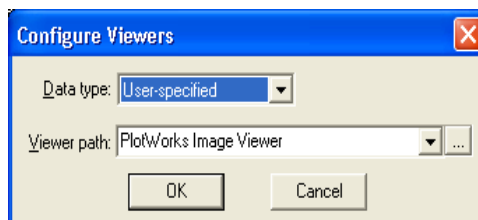
PlotWorks supports the use of third party image viewing applications. PlotWorks defaults to a Windows standard viewer for TIFF, BMP, DCX, JPG, XIF, and PCX images, and the PlotWorks Image Viewer for all other formats except **User-specified**. If your Windows operation system is Windows NT the standard viewer is the Wang/Kodak Imaging viewer. If running Windows XP it is the Windows XP Viewer.

You can elect to have the Job Editor always use the PlotWorks Image Viewer (select **Always Use PlotWorks Viewer** from the Job Editor's **View** menu) or you can define a different viewer to use. You could use a different viewing application for each file format if you choose.


To configure additional viewers:

1. Open the Job Editor's **Setup** menu and select **Configure Viewers**. The Configure Viewer dialog box appears.

*Fig 5.7
Configure
Viewer
dialog box*



2. Use the **Data type** pull-down menu to select the data type to view with this viewer. See “Data Format Tabbed Dialog Box” on page 4-27 for supported data types.
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3. Use the **Viewer path** pull-down menu to select PlotWorks Image Viewer or Wang Imaging, or click  to browse for the desired viewer. For example, you might want to select AutoCAD's AutoView to view DWG files before printing them.