# Contents

1 How do I ............................................................................................................3  
  … install the driver .................................................................................................3  
  … create a printer to print through LPR .................................................................3  
  … create and configure a printer using the Chooser .............................................3  
  … access Installable Options ..........................................................................4  
  … access the printer’s Embedded Web Server (EWS) ..........................................4  
  … create a custom page ........................................................................................ 4  
  … print to a PostScript file ....................................................................................4  
2 Tell me about ....................................................................................................7  
  … system requirements ..........................................................................................7  
  … QuickDraw GX .................................................................................................7  
  … printing to a PostScript file ..............................................................................7  
  … creating an EPS file ............................................................................................7  
  … installable options ..............................................................................................7  
  Installed Memory ...........................................................................................7  
  Paper Management ......................................................................................7  
  … the Page Setup dialog box features and options .............................................8  
    The Page Attributes panel ................................................................................8  
    The PostScript Options panel ..........................................................................9  
    The Custom Page Default panel ....................................................................9  
  … the Print dialog box features and options .......................................................10  
    The General panel .............................................................................................10  
    The Background Printing panel ......................................................................10  
    The Color Matching panel ..............................................................................11  
    The Layout panel .............................................................................................11  
    The Error Handling panel ..............................................................................12  
    The PostScript Settings panel ......................................................................12  
    The Image Quality panel ................................................................................13  
    The Color Options panel ...............................................................................13  
    RGB ...............................................................................................................13  
    Rendering Intent ..............................................................................................14  
    Black Point Compensation .............................................................................14  
    Automatic PANTONE(R) Calibration ..............................................................15  
    Print in Grayscale ............................................................................................15  
    High Quality ....................................................................................................15  
    Black Ink Only ................................................................................................15  
    The CMYK Settings panel ..............................................................................15  
    The Finishing panel .........................................................................................16  
    The Services panel .........................................................................................16
1 How do I …

… install the driver

The Easy Install installation option requires a maximum of 5.1 MB of disk space to install the driver components and documentation. Verify that you have this much space available before starting to install the driver.

Installing the driver will overwrite any previous version of AdobePS, but will not overwrite other printer drivers (such as LaserWriter or PSpinter).

To install the HP Designjet 4000 PS3 Driver:
1 Ensure your Macintosh is running Mac OS 9.1 or later.
2 Download the HP Designjet 4000 PS3 Driver installer from the Web to your hard disk, or insert the installation CD into the appropriate drive.
3 Double-click the Installer icon.
4 In the Installer, click Continue, then click Accept to accept the licensing agreement.
5 Select the Easy Install option.

… create a printer to print through LPR

1 Run the utility Desktop Printer Utility available in the HP Designjet folder created by the installation process.
2 Select Adobe PS at the With combo box and the connection LPR.
3 Change the PostScript Printer Description (PPD) file to HP Designjet 4000 PS3 and click the Change button at the LPR Printer Selection setting. A new window will appear asking for the printer's IP address or queue name (if your printer is connected to a print server). Click the Verify button to find out whether the printer is available on the network.
4 Once you have selected the correct PPD file and specified the printer address or queue name, click on the Create button to save the desktop printer.

… create and configure a printer using the Chooser

1 Open the Chooser from the Apple menu.
2 Select the AdobePS icon.
3 If possible, select the zone in the AppleTalk Zones box where your printer is located.
4 Select your HP Designjet printer from the list.
5 Click Create.

If the setup process is successful, you are returned directly to the Chooser, and an icon appears next to the selected printer. The icon indicates that the printer has been configured successfully.
However, if the driver was unable to get information from the selected printer, you are asked to select an appropriate PPD file and indicate which optional features have been installed in your printer.

6 To exit the Chooser, click the Close box in the upper-left corner.

… access Installable Options

1 From the Chooser, select AdobePS.
2 Select your HP Designjet printer from the drop-down list.
3 Click Configure.

… access the printer's Embedded Web Server (EWS)

1 Select Print from your application's File menu.
2 Select your HP Designjet printer.
3 Select Services under the printer selection box.
4 Click the Config Embedded Web server button.
5 Enter the printer's IP address, which can be obtained from the front panel.
6 Click OK. The Services buttons and the Show Print Preview options will be enabled.

Note You will receive a Launch Browser Error if you do not have a Web browser installed on your computer.

If the Show Print Preview option is checked, every time you click Print your Web browser will display a preview of the job that will be printed. You can then proceed to print or cancel the print job. When you click on one of the Service buttons the driver will ask you to close the Print dialog in order to launch the browser.

… create a custom page

1 Select Page Setup from your application's File menu.
2 Select your HP Designjet printer from the drop-down list.
3 Select Custom Page Default.
4 Select inches or millimeters in the Units dialog box.
5 Select a custom name from the existing list or create a new name in the Custom Page Name box. If you select a name from the existing list, you can modify its settings.
6 Type the name you would like for your page in the Custom Page Name field.
7 Type the width and height you would like in the Width and Height fields.
8 Enter the margins in the Top, Bottom, Left and Right edit boxes.
9 Select Add.

… print to a PostScript file

1 Select File under Destination in the Print dialog box.
2 Specify the details of the file to be saved (format, PostScript level, data format, and font inclusion) in the PostScript Settings panel.
3 Click **Save**.
4 To create a new folder, click **New Folder** and specify the name.
5 Enter the name of the file to contain the PostScript document in the Create file box.
6 Click **Save**.
How do I...
2 Tell me about …

… system requirements

The HP Designjet 4000 PS3 Driver requires the following hardware and software:

- An Apple Power Macintosh computer running Mac OS 9.1 or later (HP Designjet PS3 driver does not run on the Macintosh 68K computers)
- 4 MB or more of available memory.
- 5.1 MB of available hard disk space to install the driver components and documentation.
- Space as needed for PostScript Printer Description (PPD) files.
- Apple ColorSync 2.0.1, if using the AdobePS ColorSync features (AdobePS does not support ColorSync 1.x)

Note: AdobePS is not compatible with Apple QuickDraw GX.

… QuickDraw GX

QuickDraw GX has been discontinued by Apple Computer and is no longer supported by Hewlett-Packard.

… printing to a PostScript file

Here are some reasons you may want to save a PostScript-language description of your document as a file:

- To send the file elsewhere for printing.
- To create a PDF file with Adobe Acrobat.
- To create an Encapsulated PostScript (EPS) file.
- To create document archives.
- To learn the PostScript language.
- To diagnose printing problems.

… creating an EPS file

An EPS file consists of a single illustration on a single page. This file is stored in a special format so that applications can place its contents within a document. You can use an EPS file to export a graphic image from one application to another. An EPS file is similar to a PostScript file, but it does not describe a complete document, it describes an individual page.

… installable options

Installed Memory

The Installed Memory option allows the user to specify the correct amount of installed memory in the printer.
Paper Management

The Paper Management option allows you to enable or disable standard paper sizes (ISO, ANSI, DIN, JIS, or Architectural). If you disable a paper size, that size will not appear in the paper size selection box.

... the Page Setup dialog box features and options

When you have completed your printer driver installation, you should check that the Page Setup options are appropriate to your environment and your preferences.

When you have selected all the settings you want to use in all panels (Page Attributes, PostScript Options and Custom Page Default), click OK to save the settings. If you have made a mistake and do not want to save your settings, click Cancel.

The Page Attributes panel

The Page Attributes panel contains the following options:

Page Image Graphic

When you choose an item in the Page Setup dialog box, the page image changes to reflect the option you selected. For example, if you change the Paper setting, for instance to ISO A4, the page image changes to reflect the new proportions.

Additionally, if you click the Page Image graphic, the image provides information about your selected paper size in inches. Click a second time on the image to view information about your selected paper size in centimeters. Click a third time on the image to return to the page image.

Paper (sizes)

Click the list box next to Paper, then highlight your selection from the paper sizes listed.

Orientation

Choose one of the following:

- **Portrait.** Click the first icon to select this option. The page image graphic will show you a page whose height is greater than its width.
- **Landscape.** Click the second icon to select this option. The page image graphic will show you a page whose width is greater than its height.

Scale

If you want your images to print larger or smaller on the paper, you can enter a reduction or enlargement percentage in the Scale box. However, the ‘scale to’ option in the Printer Specific Options is recommended as more convenient. You should not use both options for the same printing job. The default setting 100% is normal size, without reduction or enlargement. The available range is 25% to 400% (to scale outside this range, use HP Scaling). If you use this option to enlarge your image, you should increase the Paper setting so that it is large enough to hold the final image size.
The PostScript Options panel

The PostScript Options panel contains the following options.

**Flip Horizontal**
Reverses the page image from left to right. This setting is additive with the printer’s Mirroring setting.

**Flip Vertical**
Reverses the page image from top to bottom.

**Invert Image**
Inverts the colors in your document: that is, it prints white for black, blue for yellow, etc.

**Substitute Fonts**
When selected, the driver substitutes PostScript printer fonts for Macintosh screen fonts:
- Times for New York
- Helvetica for Geneva
- Courier for Monaco
PostScript printer fonts have higher resolution and print faster than Macintosh screen fonts.

**Smooth Text**
Improves the appearance of bit-mapped text (not the same as Resolution Enhancement).

**Smooth Graphics**
Improves some printed graphic images by smoothing jagged edges (not the same as Resolution Enhancement).

**Precision Bitmap Alignment**
Reduces the size of your image by a small amount to give your graphics better clarity and to hide small imperfections in bit-mapped images.

**Unlimited Downloadable Fonts**
Choose this option if you want to use more fonts in your document than your printer can store in its memory. Its effect is that, whenever the font changes, the new font is downloaded to the printer. This takes time, but means that the printer does not have to store more than one font at a time. If you choose this option when printing to a file, the file could become very large.

The Custom Page Default panel

If you select Custom Page Default from the Page Setup dialog box, you can add or modify a custom page size. Remember to check that the margin settings are the required sizes (see the PPD limits pop-up menu for the physical page size
information). If you choose an unacceptable margin size, you will see a warning message.

You can change the dimensions used to enter the page size by opening the Units list.

... the Print dialog box features and options

The Print dialog box appears when you print a document. Print options determine how your document will be printed. If you do not want to change anything, click Print to print your document.

When you have selected the print settings you want to use, you can click Save settings to have those settings used for all future printing, or until you next change them.

The General panel

The General panel contains the following options:

Copies
Enter the number of copies (from 1 to 999) that you want to print.

Pages
If All is selected, your printer will print the entire document. If you want to print a range of pages, click once in the From box and type your starting page number. Use the Tab key on your keyboard to move to the To box, then type your ending page number. To print only one page, type the same page number in both boxes.

Paper Source
Use this feature to select the source of the paper to be used for the print job. Depending on the configuration of the printer the sources can be: sheet or roll. Automatically Select uses the default paper source.

The Background Printing panel

The Background Printing panel contains the following options:

Print in
Choose one of the following:

- **Foreground** sends your document directly to the printer. This option prints your document with maximum speed; however, you will not be able to use your computer until the printer has received the whole document.
- **Background** sends your document first to a temporary spool file; it is then sent to the printer as a background task. This option allows you to resume using your computer quickly, however, your document will take more time to print.
Print Time
Choose one of the following:
● **Urgent**: your document will be given top priority.
● **Normal**: your document will be given normal priority.
● **Print at**: your document will be printed at the specified date and time.
● **Put document on hold**: your document will wait until you authorize printing.

Print a cover page
The Print Cover Page option lets you print a cover page (sometimes called a “banner” page) to identify your document.

The cover page contains your name, the document name, and the date and time. You can specify whether you want the cover page to print before or after the document.

The Color Matching panel
The Color Matching panel contains the following options:

Print Color
Choose one of the following:
● **Black and white**
● **Color/grayscale**
● **ColorSync color matching**
● **PostScript color matching**

Note 1 PostScript color matching is the recommended choice, and is required if you wish to use some of the printer-specific options.

Note 2 Color imaging generally produces better visuals than black and white imaging, even on monochrome printers.

Printer profile
The items you see in this list are determined by your Print Color selection.
If you have selected ColorSync color matching, the Printer Profile list will contain all the device/media type combinations that were provided by your color management system.

The Layout panel
The Layout panel contains the following options:

Layout Preview
The graphic on the left of the panel illustrates the layout you have currently chosen.

Pages per Sheet
You may choose to print more than one page per sheet of paper. The pages are printed as shown in the layout preview graphic on the left.
This option cannot be used with single-page documents.
**Layout Direction**
If you are printing more than one page per sheet, you can choose whether to print them from left to right or right to left. The layout preview graphic on the left will demonstrate the effect of your choice.

**Border**
If you are printing more than one page per sheet, you may wish to print a border between the pages to indicate the page boundaries.

**The Error Handling panel**
The Error Handling panel contains the following option:

**If there is a PostScript error**
This option lets you choose how you want to receive PostScript error messages that may occur during printing.

**The PostScript Settings panel**

**Format**
Choose from:

- **PostScript job**: suitable for sending to a PostScript printer or for processing by the Adobe Acrobat Distiller
- **EPS Mac standard preview**: suitable for importing as a graphic (with 72-dpi bitmap preview) into other applications on the Macintosh
- **EPS Mac enhanced preview**: suitable for importing as a graphic (with a PICT preview) into other applications on the Macintosh
- **EPS no preview**: suitable for importing as a graphic (but without screen preview) into applications on non-Macintosh computers

**PostScript Level**

- **Level 1,2 and 3 compatible**: your file will be saved in PostScript Level 1, which is compatible with all PostScript printers
- **Level 2 only**: your file will be saved in PostScript Level 2, which is compatible with PostScript Level 2 printers only
- **Level 3 only**: your file will be saved in PostScript Level 3, which is compatible with PostScript Level 3 printers only

**Data Format**

- **ASCII**: if compatibility with all printers is most important to you
- **Binary**: if performance is most important to you

**Font Inclusion**

- **None**: do not save any fonts in the file (assuming that all fonts used will be resident in the printer).
- **All**: save all fonts used in the document that are available on your computer.
- **All but standard 13**: save all fonts except the standard 13 fonts (the Times, Helvetica, and Courier families, and the Symbol font).
- **All but fonts in PPD file**: save all fonts in the file except those registered in the PPD file.

### The Image Quality panel

**Maximum detail**
Select to print at a higher render resolution.

**Print Quality**
Select the quality of printing that you want.
- **Best**: use this option when you are printing to high-cost media such as clear film or glossy paper. This option gives the highest quality.
- **Normal**: use this option to produce good quality on plain or special paper. Printing with this option is faster than with Best.
- **Fast**: use this option for draft copies or when speed is more important than print quality. This option gives the highest speed.

**Optimize for**
Select optimize for drawings/text to use a printing mode more suitable for technical drawings and text.
Select optimize for images to use a printing mode more suitable for pictures.

### The Color Options panel

The Color Options panel contains the following options:

**Color Management**

**Application managed colors**
If this option is selected, the software program from which you are printing manages the color of the image or document. For best results, use this option only if the software program supports ColorSync or other color management technology and if the software program can generate CMYK colors that are supported by the HP Designjet printer. Using CMYK colors that are not supported by the HP Designjet printer could lower the print quality.

**Input Profiles**
Use the CMYK and RGB input profiles to specify the color space of the image or document. If no profiles are selected, the colors will be printed in the device’s native color mode.
CMYK

In some situations the CMYK color values in an image or document might not be suited to the printer. The following are two examples of this:

- The CMYK values for an image or document were optimized for a certain printer and now the image or document needs to be printed on a different printer.
- The CMYK values for an image or document were optimized for a printing press, but a draft needs to be printed on a less-expensive printer.

For best results the CMYK color values in the image or document need to be adapted to the printer. Select the appropriate color input profile from the list:

- HP CMYK Plus technology — (Enables a high-quality default CMYK print path. This option can be selected for most digital commercial print jobs and should produce optimal prints.)
- Standard emulation profiles
- Photoshop 4 Default CMYK and Photoshop 5 Default CMYK
- Other HP Designjet printers

RGB

Select the appropriate RGB input profile from the list:

- sRGB IEC1966–2.1: This option reflects the characteristics of the average computer monitor. This option is not recommended for prepress work because of its limited color range.
- Adobe RGB (1998): When printing from a professional software program with AdobeRGB, turn off the color management in the software program and allow the printer software to manage the color space. Use the AdobeRGB setting for documents or images that were originally created in the AdobeRGB color space.
- Apple RGB: This option reflects the characteristics of the average Macintosh monitor. Use this color space for images or documents that will be displayed on a Macintosh monitor.
- ColorMatch RGB: This option matches the native color space of Radius Pressview monitors. This color space provides a smaller color range than AdobeRGB (1998) and can be used for print production work.

Rendering Intent

Indicates how to manage the colors that are out of range when converting between color spaces. You can select one of the following options:

- Saturation: Use for presentation graphics, charts, or images that contain bright, saturated colors.
- Perceptual: Use for photographs or images in which colors blend together. The overall appearance of colors is preserved as much as possible.
- Relative Colorimetric: Use when you need to match a particular color and to print it accurately. This option also maps the white of the input space to the white of the paper on which the print job is printed.
- Absolute Colorimetric: Use when you need to print a draft to use for proofing. This option matches a particular color like the Relative Colorimetric option, but does not map the white.
Black Point Compensation
Select this option to adjust for differences in black color values when converting colors between color spaces, which can prevent blocking shadows when the black in the source space is darker than the black in the destination space. This option maps the full dynamic range of the source space into the full dynamic range of the destination space.
This option is available only when Relative Colorimetric is selected from the Rendering Intent list.

Automatic PANTONE(R) Calibration
When this option is selected, the printer extracts the Pantone color definitions from the Postscript file and matches them with the closest CMYK colors.
This option works best when the Pantone colors are defined as spot colors.
If this option is not selected, the Pantone colors are defined as composite colors with a CMYK value which is assigned by the software program. The CMYK value is managed by the printer software using the defined color management options on the Color Options Panel.

Print in Grayscale
Click to print a document in shades of gray (black and white). This option is useful for previewing preliminary copies of slides and paper output quickly or for color documents that will be photocopied or faxed.

High Quality
Uses all colors to print in high-quality grayscale.

Black Ink Only
Uses only black ink to print in grayscale.

The CMYK Settings panel
The CMYK Settings panel contains the following options. Note that the Cyan, Magenta, Yellow and Black sliders and edit boxes will be disabled if Print in Grayscale is enabled in the Image Quality panel.

Cyan
Adjusts the amount of cyan used in the printed image.

Magenta
Adjusts the amount of magenta used in the printed image.

Yellow
Adjusts the amount of yellow used in the printed image.

Black
Adjusts the amount of black used in the printed image.
The Finishing panel

The Finishing panel contains the following options.

**Rotate by 90 Degrees**
Select to rotate the printed image or document by 90 degrees. If you are using roll paper, this feature can help reduce the amount of paper that is used for the print job.

**Mirror Image**
Click to reverse your image or document left to right.

**Save Roll Paper**
If checked, only the roll paper necessary to contain the drawing will be used by the printer.

**Disable Automatic Cutter**
If checked, the printer will not cut the page at the end of printing.

**Print Document On**
Prints your document on a paper size other than the one for which it is formatted. This option is useful if your document is formatted for a paper size you do not have available. For example, if a document is formatted for ANSI C sized paper and you have none, you can print on another size.

The Services panel

The buttons on the left of the panel are links to the Embedded Web Server (EWS). Web Server functionality will only work when the Printer IP address is provided. Click on the Config Embedded Web Server to type the printer IP address.

The Services panel contains the following options.

**Status of my Printer**
Opens the Status Window. The Status Window:
- Provides device status, such as printing, spooling, error, and caution status.
- Describes the selected print quality, paper type, and paper size settings.
- Provides estimated ink levels for all print cartridges.
- Provides a method to cancel your print job.

**Check Media Available**
Indicates the type and size of the media that is loaded.

**Manage my Printer's Queue**
Lists the print jobs that have been sent to the printer. You can also cancel a print job from here.
Access User Documentation
Click to view the user documentation.

Troubleshoot my Printer
Click to connect to HP instant support which is a set of Web resources that help you to solve specific problems and determine what additional services are available for your printer.

Show Print Preview
By checking this box, the Embedded Web Server (EWS) will be launched showing a print preview of the print job before the job is actually printed. You can at this time accept to proceed the print or cancel the print job.

Config Embedded Web Server
This dialog allows the user to enter the IP address of the printer. After clicking OK the Show Print Preview option and the Services buttons will change to active.