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Chapter One: Welcome

Welcome to OMEGA™ 3.0, the state-of-the-art design and production system for the sign, graphics, and screen-print industries. OMEGA 3.0 teams powerful design and production features in a friendly, easy-to-use package.

About Getting Started

To help you put your OMEGA 3.0 software to work as quickly as possible, refer to the chapters that apply to your system and software.

Chapter Two: Installing OMEGA Software tells you how to connect the security key needed to run OMEGA 3.0 and provides installation instructions for OMEGA 3.0 software. Refer to this chapter if you need to activate Arabic for OMEGA.

Chapter Three: Adding Output Devices gives detailed instructions on installing hardware devices for your system. Please refer to the individual device manuals for specific installation instructions.

Chapter Four: Beyond Getting Started presents helpful information on registration, system information, the help system, and customer support, and suggests where you will find other useful OMEGA-related information.

Chapter Five: Troubleshooting contains questions and answers to common problems and error messages.

Chapter Six: HPGL™ Plotter Installation discusses custom installation for HPGL plotters.

Chapter Seven: Networking Devices describes how to setup a GSP® network.

Notes and tips

The following conventions are used in this manual:

Note: A note contains important information that could affect the successful completion of a task.

Tip: A tip contains a suggestion or to remind you of something that may appear elsewhere in the manual.

CAUTION: A caution statement contains information which, if not observed, could result in damage to the equipment.

Chapter Three: Adding Output Devices

Whether installing OMEGA for the first time or upgrading your software, you may need to add output devices. The Add or Delete Plotters/Routers, Add or Delete Vinyl Printers, or Add or Delete ImageRIP Printers dialog boxes enable you to install the output devices. You can access these dialog boxes three different ways:

1. During installation of OMEGA by turning on the Install Printers/Plotters checkbox located on the final installation screen.
2. By right clicking on the GSPTray icon that is found at the bottom right of your Windows status bar and choosing Install Vinyl Printer, Install Plotter/Router, or Install ImageRIP Printer. If the GSPTray icon is not available, click Start > Programs > Gerber OMEGA 3.0 > GSPTray.
3. By clicking Start > Programs > Gerber OMEGA 3.0 > GQMgr > Install menu > Plotter, Vinyl Printer, or Ink Jet Printer.

These procedures are described in the following pages:

- To add output devices after installing OMEGA software
- To add or delete a local vinyl printer (parallel and USB-to-Parallel)
- To add or delete a remote vinyl printer
- To add or delete a network vinyl printer
- To add or delete a local inkjet printer
- To add or delete a remote inkjet printer
- To add a local plotter via a COM port
- To install a plotter via a USB port
- To delete a local plotter
- To add or delete a remote plotter

Adding output devices after OMEGA installation

To add output devices after installing OMEGA software

1. Turn on Install Plotters/Printers checkbox in the OMEGA Setup Complete dialog box to open the Add or Delete Gerber Vinyl Printer(s) dialog box.

To add a remote ink jet printer

Note: Instructions for networking Gerber equipment can be found in, "Chapter Seven: Networking Devices" or in FastFacts #3548. Follow these instructions before installing a remote inkjet printer.

1. Open the Add or Delete Gerber ImageRIP printer(s) dialog box using one of the methods on page 25. The Local tab displays.
2. Click the Remote tab.
3. Click the Browse button to open the Browse for Folder dialog box and select the correct drive (Gspqueue folder) for the networked printer. Click OK to return to the Add or Delete ImageRIP Printer(s) dialog box.
4. Click the available ImageRIP printer to be added.

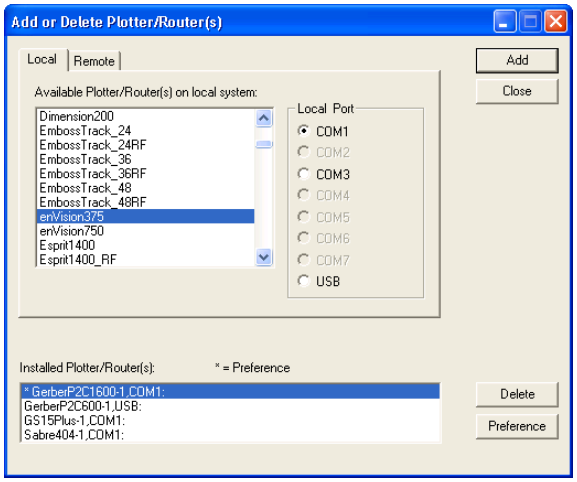
Adding or deleting a plotter

Two types of plotters can be installed with your OMEGA system, local and remote. Many Gerber plotters are installed via a COM port, but some plotters such as the Gerber P2C™ can be installed using a USB port. In addition to installing the USB plotter in OMEGA, you will need to install the plotter driver that came with the equipment.

Tip: Occasionally a plotter will use a standard Windows driver instead of a custom driver and the driver will already be loaded on your computer.

To add a local plotter via a COM port

1. Open the Add or Delete Gerber Plotter/Router(s) dialog box using one of the methods on page 25. The Local tab displays.



2. Select a plotter from the Available Plotter/Router(s) on local system list.
3. Choose a Local Port.

Note: If you are installing a USB plotter such as a Gerber P2C, see the procedure entitled "Installing a plotter via a USB port" on page 53.

4 Click Add to open the Add - Name Device dialog box.

5 Accept the default name or enter your own description for the device. The description appears in the output dialog boxes. Click OK. The name of the new plotter will appear in the Installed Plotter(s) field of the Add or Delete Plotter(s) dialog box.

6 Close the Add or Delete Plotter(s) dialog box.

To install a plotter via a USB port

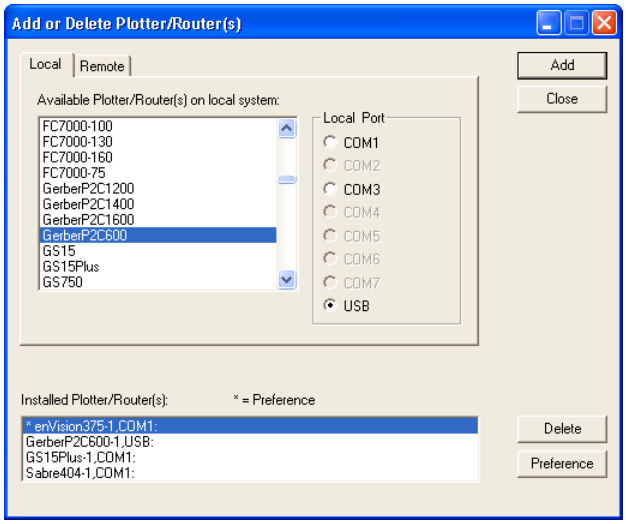
This procedure assumes you have a Gerber P2C™ plotter and a Gerber P2C driver disk. If you are installing the Gerber Tempo, see the Gerber Tempo Setup Manual. If you are installing another USB plotter see the documentation that came with the plotter.

1 Plug in and turn on the Gerber P2C plotter (or other compatible USB plotter).

2 Plug the USB cable into the plotter and then into the USB port of your computer. Windows should detect the new device and display the "New hardware found" message.

3 When Windows displays the New Hardware Wizard, install the plotter driver using the Gerber P2C driver disk that came with the equipment. If you need specific instructions, see the PDF document located on the driver disk entitled "Installing the Gerber P2C Plotter USB Driver."

4 After installing the driver, right-click GSPTray and choose Install Plotter/Router to open the Add or Delete Plotter/Router(s) dialog box. The Local tab displays. (If the GSPTray icon is not available, click Start > Programs > Gerber OMEGA 3.0 > GSPTray.)



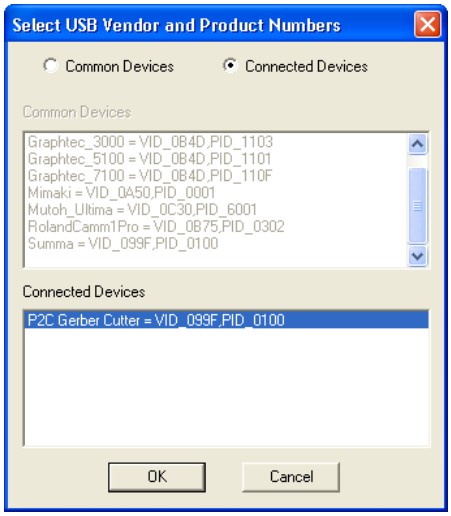
5 Choose the Gerber P2C (or other compatible USB plotter) and click USB for the Local Port.

6 Click Add to open the Add - Name Device dialog box.

7 Accept the default name or enter your own description for the device. The description appears in the output dialog boxes. Click OK. The name of the new plotter will appear in the Installed Plotter(s) field of the Add or Delete Plotter(s) dialog box.

8 Close the Add or Delete Plotter(s) dialog box.

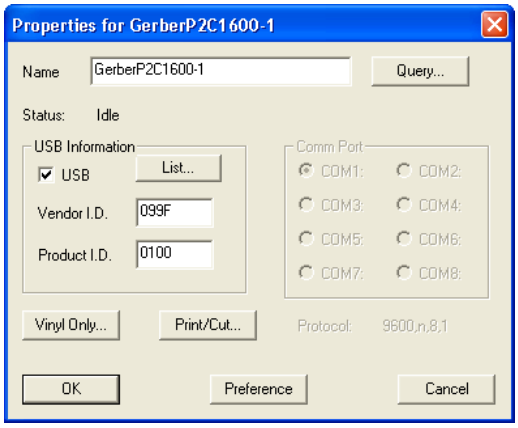
9 The first time you send a job to this plotter GQ Manager will flash prompting you to open it. The Select USB Vendor and Product Numbers dialog box displays.



10 Choose the connected USB plotter from the Connected Devices list (or the Common Devices list if it is a plotter in that list) and click OK. This will load the USB information (Vendor ID and Product ID) for the plotter into OMEGA. Click OK.

Tip: If the plotter you are installing is a common device it may be listed in the Common Devices list. Turn on Common Devices to activate that list.

11 To view the USB plotter Vendor and Product IDs, open GQMgr. Right-click the installed USB plotter and choose Properties to open the Properties for Gerber P2C (or other plotter) dialog box.

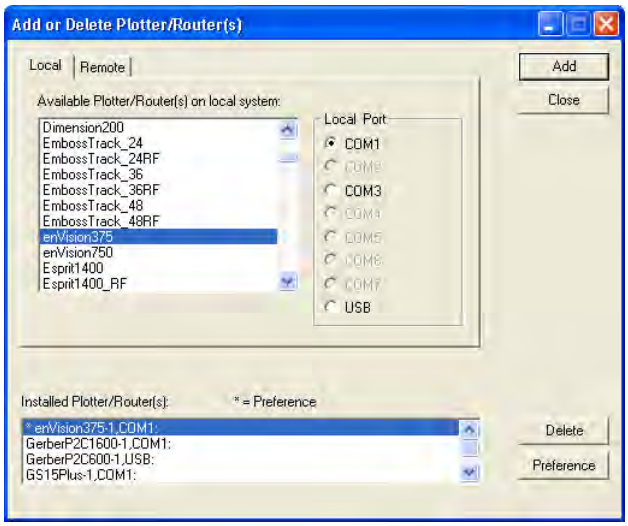


12 Turn on USB and the Vendor ID and the Product ID should display in the USB information box.

Tip: The List button in the Properties dialog box returns to the Select USB Vendor and Product ID dialog box.

To delete a local plotter

1 Open the Add or Delete Gerber Plotter/Router(s) dialog box using one of the methods on page 25. The Local tab displays.



2 In the Available Plotter/Router(s) list box select the plotter to be deleted.

3 Click Delete.

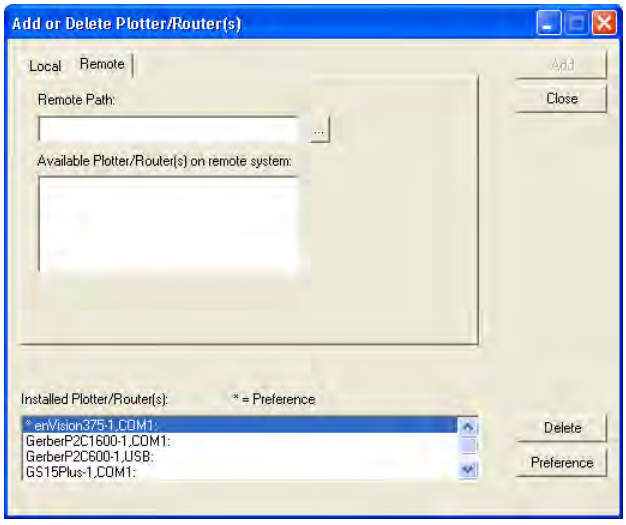
4 Click Close.

To add a remote plotter

Note: You must map a network drive to the remote plotter. You will get errors if you browse through Network Neighborhood to select the drive.

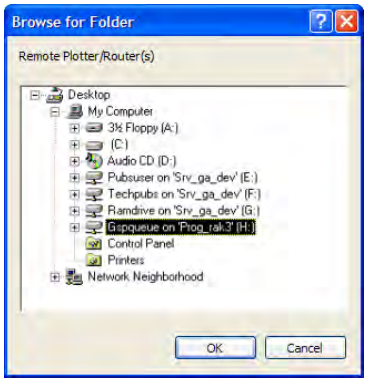
1 Open the Add or Delete Gerber Plotter/Router(s) dialog box using one of the methods on page 25.

2 Click the Remote tab.

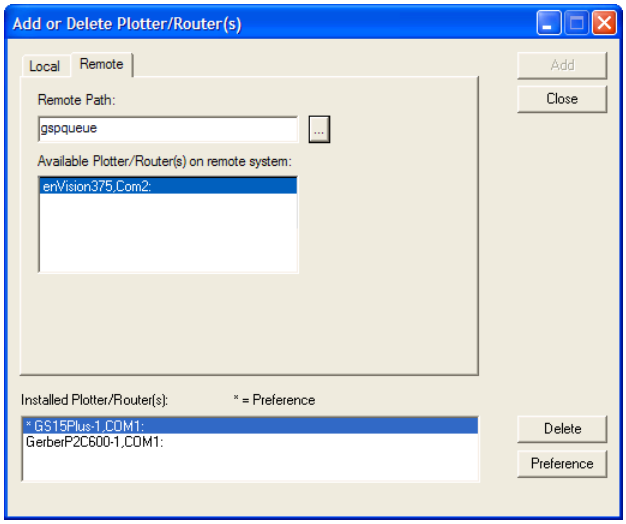


3 Click the Browse button to open the Browse for Folder dialog box.

4 Select the appropriate drive (Gspqueue folder) for the remote plotter.



5 Click OK to return to Add or Delete Plotter/Router(s) with the Remote Path completed.



6 Choose a plotter from the Available Plotter/Router(s) on remote system list.

7 Click Add to open the Add - Name Device dialog box.

8 Either accept the default name or enter your own description in the Device Name text box. The description will display in the output dialog boxes.

9 Click OK. The name of the newly installed plotter appears in the Installed Plotter/Router(s) section of the Add or Delete Plotter/Router(s) dialog box.

10 Click Close to return to the Plotter/Printer Select dialog box.

To delete a remote plotter

1 Open the Add or Delete Gerber Plotter/Router(s) dialog box using one of the methods on page 25.

2 Click the Remote tab.

3 Select the installed plotter to be deleted.

4 Click Delete.

5 Click Close.

Chapter Six:
HPGL Plotter Installation

Working with HPGL plotters

OMEGA allows you to connect an HPGL plotter. HPGL is an acronym for Hewlett-Packard® Graphics Language, a standard command set used to communicate with plotters.

OMEGA 3.0-supported plotters for basic cutting

Allen Datagraph™	MDL-824, MDL-830, MDL-836, MDL-840, MDL-848
Aristo®	AG50, AG130, 1317
ENCAD®	NovaCut®24, NovaCut54
Gerber Scientific Products	Gerber Tempo 600
Graphtec™ FC-2100	120, 90A, 50, 60A, SignJet PRO™-24, SignJet PRO-54
Graphtec CE-3000	40, 60, 120
Graphtec	FC-3100 (60, 100, 120), FC-5000 (60, 120), FC-5100, FC-7000, FC-8000 (75, 100, 130, 160)
Graphtec	Craft ROBO Pro
Ioline™ Studio	7-24, 7-36, 8-30, 8-40, 8-52
Roland® PNC™	900, 1000A, 1050, 1100, 1600, 1800, 1900, CAMM1 Pro
Mimaki™	CG5, CG6, CG9, CG12, CG50, CG100
Summa®	SummaCut, Summa Sign Pro, SummaS
Vytek™	24, 40, 54
Wild®	TA30, TA30RF, TA40, TA40RF, TA41, TA41RF, TA400G, TA400G-RF, TA410E, TA410E-RF
Zund®	M800, M1200, M1600, P1200, P1200RF, P700, P700RF, P1200 Plus, P1200 PlusRF, P2000, P2000RF
Generic HPGL	15", 18", 24", 48"

Verifying communication settings

Many plotters have communications settings that are set using DIP switches or a control panel on the plotter. Verify that communications settings for your plotter match the communications settings for OMEGA. This is important for users of non-Gerber plotters so that you can set up your plotter appropriately since OMEGA 3.0 communication settings cannot be changed. OMEGA 3.0 sends data as follows:

- Baud Rate = 9600
- Parity = No
- Data Bits = 8
- Stop Bits = 1

Note: Contact Gerber Service at 860-644-1551 ext. 8602 for other ways to verify communication settings.

Customizing plotter setup

If your HPGL plotter does not appear in the plotter list in the Add or Delete Plotter/Router(s) dialog box, you can use the following procedure to set up OMEGA to communicate with the plotter.

Before beginning, you need to gather the following information about your plotter:

- Plotter name
- Units of measurement used by the plotter – US or metric
- Effective plotting area (length and height)

These specifications are usually found in your plotter owner's guide. If you cannot locate them, contact your plotter manufacturer.

You must enter these specifications into the **device.ini** file of OMEGA. This file provides the GSPPlot program with information about the plotter so that GSPPlot knows how to control the plotter and how much plotting area is available.

To enter plotter information into device.ini

1. Using a text editor such as Windows Notepad, open the file called C:\Program Files Gerber Scientific Products\OMEGA 3.00\Software**device.ini**. (Under List Files of Type, be sure that you have chosen All Files.)
2. Scroll through the file until you find the [plotters] section.
3. Locate the following line, and copy and paste it at the end of the list: HPGLTEMP=9999,1.016,0,13.00,59,3,1.0,1.0,com2:

You will be changing some of the values in the line you just pasted. However, the following values in that line do NOT change: **9999** (at the beginning) and **59,3,1.0,1.0,com2:** (at the end).

Note: If the plotter supports, the PG command (Page Advanced), type 68 in place of 59.

To add a plotter name

1 Highlight the word HPGLTEMP.

2 Type the model name of the plotter you are adding.

To change the plotter step size

1 Highlight 1.016. (HPGLTEMP=9999,**1.016**,0,13.00,59,3,1.0,1.0,com2)

2 Type 2.54.

Note: Be sure this value is entered correctly for your plotter or shapes may plot larger or smaller than they should. The values shown in this example are common plotter settings, the proper settings for your plotter may be different.

*Note: The plotter step sizes translate as follows: the 1.016 value = 1016 steps per inch which is a step size of **0.025mm,** and the 2.54 value = 2540 steps per inch which is a step size of **0.01mm***

To change the cutting area of the plotter

1 Change the 0 (HPGLTEMP=9999,1.016,**0**,13.00,59,3,1.0,1.0,com2) to the actual cutting length (X axis) of the plotter in the form of nnn.nnn. Metric values must be converted to inches.

Note: A value of 0 means there is no limit to length. Usually this means the plotter is capable of cutting an entire roll of material (50 yards). If the plotter has a specific length limit, enter that limit instead of 0.

2 Change 13.00 (HPGLTEMP=9999,1.016,0,**13.00**,59,3,1.0,1.0,com2) to the actual cutting height (Y axis) of the plotter.

Note: If the cutting height is in millimeters, convert it to inches and enter it in the form of nnn.nnn. For example, a plotter has a plotting height of 580 mm. To convert this value to inches, use the following formula:

580/25.4 = 22.8346456

3 Round the result to three decimal places.

Tip: We recommend that a lesser value than the absolute plotting height be entered to avoid reaching the plotter limits.

4 Enter the value in place of 13.00.

Note: If the Y axis cutting height is set incorrectly for your plotter, large jobs will not panel correctly.

5 Save **device.ini** and exit Notepad.

Note: For specific instructions on installing a plotter, refer to "Chapter Three: Adding Output Devices."