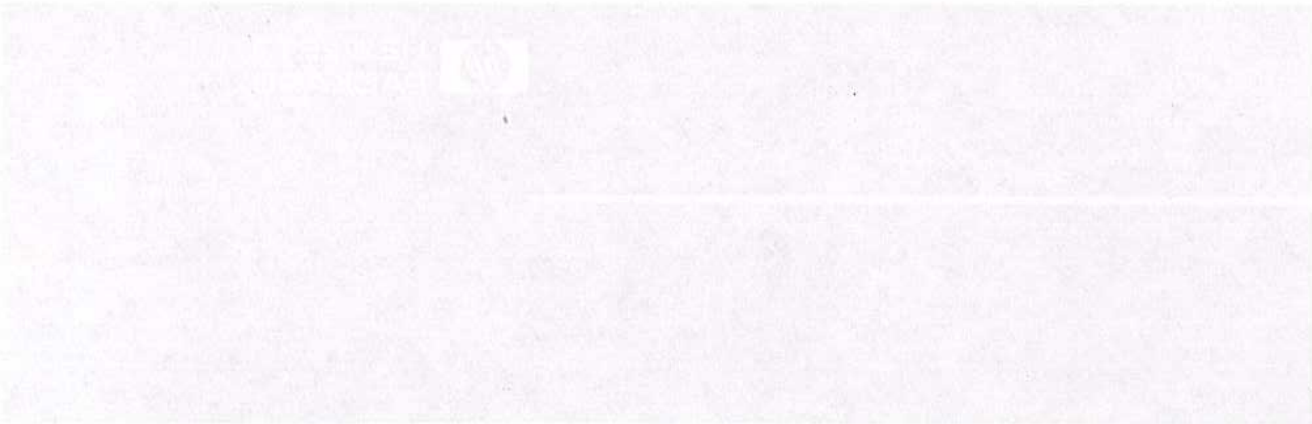




Installation  
and Setup  
Guide

HP VidJet Pro  
Utilities Software

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Installation  
and Setup  
Guide

HP  
Utilities Software

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# Installation and Setup Guide

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HP VidJet Pro  
Utilities Software

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## The HP VidJet Pro Utilities Software

The HP VidJet Pro Utilities software is a Windows™-based software application that complements the HP VidJet Pro Video Print Manager (referred to as the “Print Manager” in this guide) by offering full remote control capability as well as an enhanced feature set. Feature enhancements include the following:

- Print Preview
- On-Screen Storyboard Editing Capability
- Keyboard Entry of Storyboard Text
- HP VidJet Pro-to-PC and PC-to-HP VidJet Pro Text and Image File Transfer
- Ability to Grab or Print Images with Pre-Specified Time Codes
- Full On-Line Documentation (Windows Help)

THE HISTORY OF THE UNITED STATES

The history of the United States is a story of growth and change. It begins with the first settlers who came to the continent in search of a better life. Over time, the colonies grew and fought for their independence from Britain. The new nation was born, and it has since grown into a powerful and diverse country. The story of the United States is one of resilience and progress.

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**Installing and Setting Up  
the HP VidJet Pro Utilities  
Software**

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## Installing and Setting Up the HP VidJet Pro Utilities Software

To prepare the HP VidJet Pro Utilities software for use, follow the procedures below. Prior to performing the procedures, install and set up the Print Manager as shown in Chapter 1 of the *HP VidJet Pro Video Print Manager User's Guide*.

In addition to the equipment requirements of the HP VidJet Pro, the HP VidJet Pro Utilities software requires the following hardware/software platform:

- 486/33 MHz or better PC compatible computer with VGA color monitor
- 8 MB RAM
- Microsoft® Windows 3.1 operating environment
- 3.5", high-density (1.44 MB) floppy disk drive
- RS-232 or RS-422 serial port with 38.4 KBaud maximum data transfer rate

---

# Installing and Setting Up the HP VidJet Pro Utilities Software

Installation and setup consists of replacing the firmware ROMs in the Print Manager (if necessary), connecting the PC to the Print Manager, and installing the HP VidJet Pro Utilities software on your PC hard drive. The software automatically configures the communication link between the Print Manager and the PC.

The HP VidJet Pro Utilities software automatically chooses the baud rate of the communication link when it is run for the first time after being installed. After installation, if the communication link becomes unreliable at the chosen baud rate setting, you can configure the software to select a different baud rate. This information is found in the section "Modifying the Initialization File."

---

## 1. Replace the firmware ROMs.

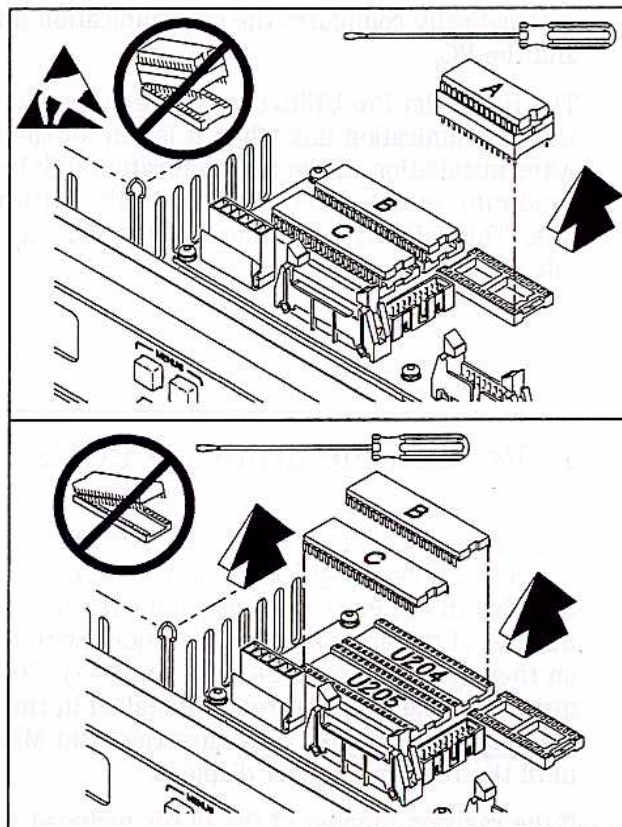
If the revision number printed on the firmware ROMs included with the Utilities software is greater than the revision number of the ROMs currently installed in the Print Manager, you need to replace the ROMs. The revision number of the firmware ROMs included with the Utilities software is printed on them (for example, VER 4.0 (U204)). To determine the revision number of the ROMs currently installed in the Print Manager, hold down the **GRAB SEQ** and **STOP** keys, turn the Print Manager on, and hold the keys until the revision number displays.

If the revision number of the ROMs included with the Utilities software is greater than the revision number of the ROMs installed in the Print Manager, perform the following procedure:

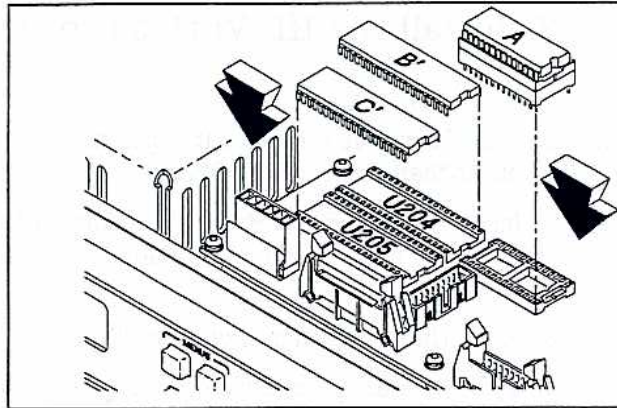
1. Set the Print Manager power switch to off and disconnect the Print Manager from the mains power source.
2. Remove the top cover of the Print Manager.
  - a. Using a #10 Torx® driver, remove the five screws that secure the Print Manager top cover to the chassis.

**Installing and Setting Up the HP VidJet Pro Utilities Software**

- b. Slide the top cover toward the rear of the Print Manager until it clears the front frame, then lift it away from the chassis.
3. Replace the firmware ROMs using the following two figures as a guide, then replace the top cover.







---

## 2. Connect the HP VidJet Pro to your PC.

The software is shipped with a 9-pin RS-232 cable and 9-pin to 25-pin adapter to accommodate most interfacing needs. The serial port of the Print Manager can accommodate both RS-232 or RS-422 interface standards and is selectable using the RS-422/RS-232 switch that is adjacent to the connector. If RS-422 is used, you'll need to supply your own cable.

Connect the cable between the SERIAL RS-232 connector on the rear panel of the PC and the RS-422/RS-232 connector on the rear panel of the Print Manager. If the PC has more than one RS-232 port, use port #1 (sometimes also labeled port A). *Do not* connect the cable to the REMOTE FRONT PANEL connector on the rear panel of the Print Manager. Set the RS-422/RS-232 switch that is adjacent to the connector to the RS-232 position, or the RS-422 position if you are using that interface standard.

---

### 3. Install the HP VidJet Pro Utilities Software.

Using the Program Manager  
"File" menu

1. Start Microsoft Windows if it has not been started and close all applications other than the Program Manager.
2. Insert the HP VidJet Pro Utilities disk into floppy disk drive A on the PC. If the PC has more than one floppy disk drive, drive A is the uppermost drive.
3. From the "File" menu, choose "Run."
4. Type "a:setup" and then press **(Enter)**.
5. Follow the instructions on the PC monitor screen. Install the software in directory "VidJet" on your "c:" drive.

Using the File Manager

1. Start Microsoft Windows if it has not been started and close all applications other than the Program Manager.
2. Double-click on the "Main" group icon in the Program Manager window.
3. In the "Main" window, double-click on the "File Manager" program icon to start the file manager.
4. Insert the HP VidJet Pro Utilities disk into floppy disk drive A on the PC. If the PC has more than one floppy disk drive, drive A is the uppermost drive.
5. Click the "A" drive icon in the file manager window.
6. In the right portion of the file manager window, which indicates the files on floppy disk drive A, double-click on "setup.exe" and then follow the instructions on the PC monitor screen. Install the software in directory "VidJet" on your "c:" drive.

#### 4. Start the program.

- In the Program Manager window, double-click on the “HP VidJet Pro” group icon, then double-click the “HP VidJet Pro” program icon. Alternately, you can use the arrow keys to select the icons and then press **Enter**.

Once the HP VidJet Pro virtual front panel appears on the PC monitor, you can begin using the HP VidJet Pro Utilities software to control the Print Manager.

---

## Using the HP VidJet Pro Utilities Software

The HP VidJet Pro Utilities software uses a standard Windows interface to control the Print Manager. The application is fully documented on-line using the Windows help utility. You can obtain help two ways:

- By clicking “Help” in the HP VidJet Pro Utilities software menu bar and then one of the menu items in the Help menu, you can call up the table of contents for the help utility, start the keyword search utility, or open a help utility that provides general information on how to use Windows help utilities.
- By using the keyword search utility (called up by clicking the **Search** button within the Windows help utility), you can obtain a list of help topics based on the keyword you type.

HP VidJet Pro Utilities software help is divided into three main sections, as follows:

### How Do I?

The help topics in this section provide you with step-by-step instructions necessary to accomplish a task, such as creating and printing a storyboard or saving an image to disk.

### Panel Buttons, Menus, and Dialog Boxes

The help topics in this section provide detailed information on the various elements (buttons, menus, dialog boxes, and the settings within them) that make up the HP VidJet Pro Utilities software interface.

### If You Encounter a Problem

The help topics in this section provide solutions in the event you encounter a problem while using the HP VidJet Pro Utilities software to control the Print Manager.



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## Modifying the Initialization File

If the baud rate of the communication port must be changed after the Utilities software is installed, you must edit the "vidjet.ini" file that is found in the "vidjet\" directory on your PC hard drive. You might have to change the baud rate if, for example, communication between the PC and Print Manager becomes unreliable at the current baud rate setting.

The "vidjet.ini" file is an ASCII text-only file that can be edited using any word processor, such as Microsoft Windows Notepad. The file appears as follows:

```
; VidJet.INI Initialization File
```

```
[SerialPort]  
Port=1  
BaudRate=38400
```

Where the actual settings for Port and BaudRate are those chosen for your current configuration.

To modify the file, delete the Port and BaudRate settings so the file appears as follows:

```
; VidJet.INI Initialization File
```

```
[SerialPort]  
Port=  
BaudRate=
```

You will have to restart the HP VidJet Pro Utilities software so that the software selects a different baud rate setting.

---

## If You Encounter A Problem

If you have a problem installing or setting up the HP VidJet Pro Utilities software, this section provides solutions that will help you get back to work quickly. If you have a problem using the HP VidJet Pro Utilities software once it is installed and set up, refer to "If You Encounter a Problem" in the HP VidJet Pro Utilities software help utility.

If the HP VidJet Pro Utilities software will not successfully load into your PC.

- Check that your computer hardware meets the criteria outlined at the beginning of this guide.

If the Print Manager does not respond to commands from the HP VidJet Pro Utilities software.

- Check that the Print Manager baud rate matches the baud rate of the PC.

If the Print Manager is turned off and then on while it is under control of the HP VidJet Pro Utilities application, its baud rate might no longer match the baud rate used by the Utilities application. If the Print Manager is powered off and then on for any reason, quit and then restart the HP VidJet Pro Utilities application.

---

## Installation Note

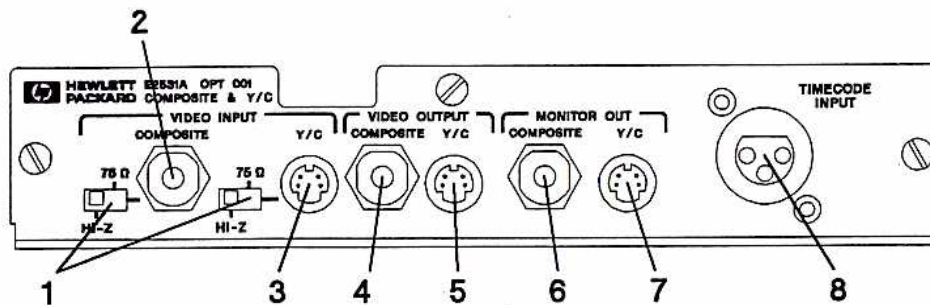
---

**Analog Composite and  
Y/C Video I/O Card -  
HP E2531A**

# Analog Composite and Y/C Video I/O Card - HP E2531A

The Analog Composite and Y/C Video I/O Card HP E2531A provides composite and Y/C (S-video) inputs and loop through outputs, and composite and Y/C (S-video) monitor outputs for the HP VidJet Pro Video Print Manager mainframe (E2530A). The termination impedance of each video input can be set to either  $75\Omega$  or a high-impedance. E2531A Option 001 (pictured) includes an LTC time code input.

To install the Video I/O Card, refer to the procedure in Chapter 1 of the *HP VidJet Pro Video Print Manager User's Guide*.



Analog Composite and Y/C Video I/O Card - HP E2531A

1. The Hi-Z/ $75\Omega$  switches are set to properly terminate the video inputs.

2. The composite video input accepts an NTSC, PAL, or SECAM analog composite video signal. This connector mates with a male BNC-type connector.

3. The Y/C video input accepts an NTSC, PAL, or SECAM Y/C (S-video) signal. This connector mates with a four-pin male circular mini-DIN connector.

4. The composite video output is a passive loop-through connection to the composite video input. This connector mates with a male BNC-type connector.

5. The Y/C video output is a passive loop-through connection to the Y/C video input. This connector mates with a four-pin male circular mini-DIN connector.

6. The composite monitor output is an auto-selected analog composite (NTSC/PAL) video signal for connection to an external monitor. This connector has an output impedance of  $75\Omega$  and mates with a male BNC-type connector.

7. The Y/C monitor output is an auto-selected Y/C (S-video) signal for connection to an external monitor. This connector has an output impedance of  $75\Omega$  and mates with a four-pin male circular mini-DIN connector.

8. The LTC (longitudinal-time code) input (Option 001) allows the inclusion of source synchronized time code with printed images. This connector mates with a male audio XLR connector.

**HP VidJet Pro**  
**Manual Change Package**

**Manual Identification:**

Manual Part Number: E2530-90016

Title: HP VidJet Pro Video Print Manager User's Guide

**How to Use This Manual Change Package**

This manual change package provides replacement pages for your HP VidJet Pro User's Guide. With these replacement pages, the manual will reflect the instrument configuration identified by instruments with firmware version 4.0.

Replace pages in the manual with pages in this package when they have the same page numbers.

HEWLETT-PACKARD COMPANY  
Video Communications Division  
5301 Stevens Creek Blvd.  
Santa Clara, California 95052, USA

January 1995  
Change Package Part No. E2530-90025

Printed in U.S.A.

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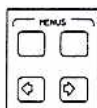
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HEWLETT PACKARD COMPANY  
Worldwide Customer Support  
2001 Avenue of the Stars  
Santa Clara, California 95050

1000



### 3. Select paper size and type.



- Executive
- \*Letter(A)
- Legal
- B Tabloid
- C
- D
- Arch D.
- E
- Arch E.
- \*Plain
- HP CXJet
- HP LXJet
- Glossy
- Transpar.

Install Menu 3  
 Paper Size-Arch D

Install Menu 4  
 Paper Type-HP CXJet

Paper Size

The following table relates standard paper sizes to their dimensions:

Paper Size	Dimension	Paper Size	Dimension	Paper Size	Dimension	Paper Size	Dimension
Executive	7.25×10.5 inches	Architectural E	36×48 inches	A4 Letter	210×297 mm	B4	250×353 mm
Letter	8.5×11 inches			A3	297×420 mm	B3	353×500 mm
Legal	8.5×14 inches			A2	420×594 mm	B2	500×707 mm
B Tabloid	11×17 inches			A1	594×840 mm	B1	707×1000 mm
C	17×22 inches			A1 Oversize	625×900 mm	B0	1000×1414 mm
D	22×34 inches			A0	840×1188 mm		
Architectural D	24×36 inches			A0 Oversize	900×1245 mm		
E	34×44 inches			B5	176×250 mm		

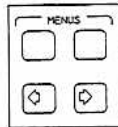
Paper Type

“HP CXJet” paper is a cost-effective, short-fiber, plain paper that ensures fast ink drying time, brilliant colors, crisp lines, and a smooth fill. It is the best choice for most applications (the HP order number for 200 sheet, A-size CX Jet paper is “HP 51630Y” and the HP order number for 200 sheet A4-size CX Jet paper is “HP 51630Z”). “HP LXJet” paper is a special glossy paper for use with HP color inkjet printers.

Setting Up the Video Printer System  
Configuring the Print Manager

---

4. Select print sharpness.

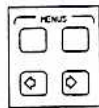


- Soft
- \*Normal
- Sharp

Install Menu 6  
Sharpness=Normal

---

5. Set time and date.



- 00:00:00
- 
- 
- 
- 
- 23:59:59

Install Menu 9  
Time=00:00:00

- 1980
- 
- 
- 
- 
- 2079

Install Menu 10  
Year=1993

- 1
- 
- 
- 
- 
- 12

Install Menu 11  
Month=10

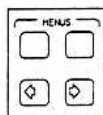
- 1
- 
- 
- 
- 
- 31

Install Menu 12  
Day=30



---

## 6. Select frame memory management mode.



- \*Stop Full
- Circular

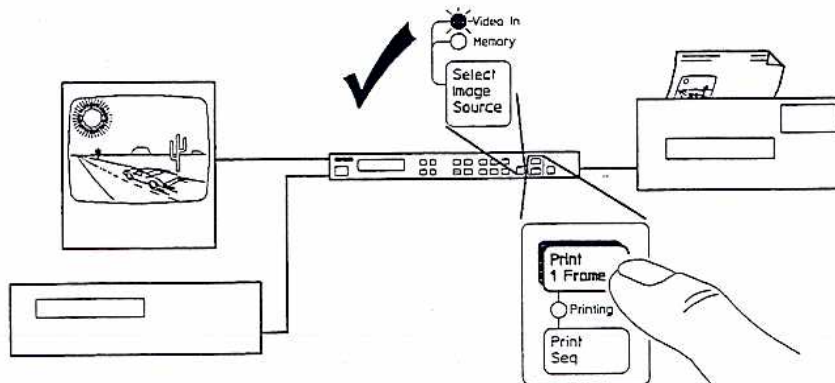
Install Menu 14  
Grab Seq-Circular

Grab Seq

When "Circular" is chosen and additional frames are grabbed using the **Grab Seq** key when frame memory is full, the additional frames will be stored with the oldest frames being lost. This mode is useful when you need to capture a particular frame or subset of frames from a sequence of frames that is too large for frame memory to store. When "Stop Full" is chosen and you attempt to grab additional frames using the **Grab Seq** key when frame memory is full, the additional frames will not be accepted.

---

## 7. Obtain a test print.



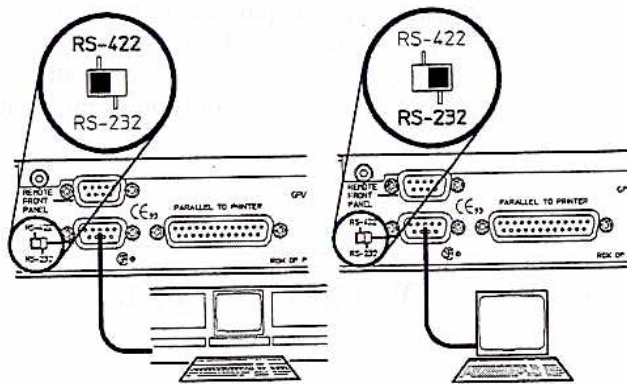
---

## Optional Print Manager Configuration

This section contains additional configuration information for functions that might not be used in all applications.

---

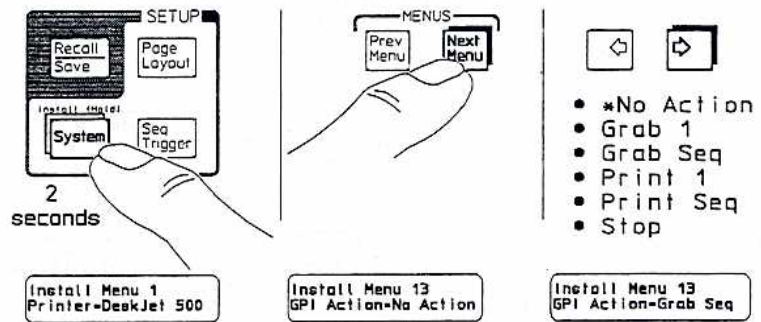
Select the remote interface standard.



---

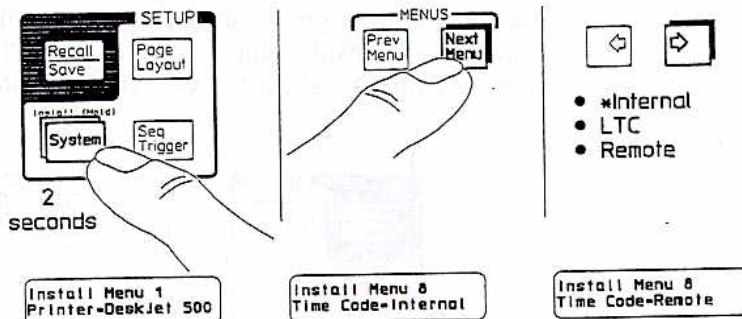
## Select the GPI action.

The choice you make in this menu determines the function that the Print Manager will perform when it receives a valid GPI trigger signal at the rear panel GPI/TRIGGER connector (refer to "GPI Trigger Timing" in Chapter 4 for more information about the GPI trigger signal).



Setting Up the Video Printer System  
**Optional Print Manager Configuration**

Select the time code source.



Time Code

The time code prints below each image preceded by a letter denoting the time code source ("i" for internal, "L" for LTC, and "r" for remote). The choices for time code source are as follows:

Choice	Description
Internal	The Print Manager uses a time code based on counting frames and internally generating a time code starting at 00:00:00:00.
LTC	The Print Manager uses LTC time code sent to it over the XLR Time Code Input connector. Note that the Time Code Input is an option and might not be available on all video I/O cards. The LTC time code must conform to SMPTE/EBU standards.
Remote	The Print Manager uses the time code sent to it over the RS-422/232 interface as the time code for the next grabbed frame. Refer to the "MEMory:FRAMe:GRAB:TCODE" command under "Programming Commands" in Chapter 4 of this manual for command syntax information.

---

## If You Encounter a Problem

If you have a problem installing or setting up the video printer system, this section provides solutions that will help you get back to work quickly. If you have a problem printing, grabbing, or editing video images, refer to the section, "If You Encounter a Problem," at the end of chapter 2. If you have a problem customizing and formatting prints, refer to the section, "If You Encounter a Problem," at the end of chapter 3.

If your problem is associated with the procedures in this chapter, but is not listed here, refer to the troubleshooting section of the *HP VidJet Pro Video Print Manager Service Guide*.

If the Print Manager does not respond to remote programming commands.

- Check that the Print Manager baud rate matches the baud rate of the controller.

The Print Manager baud rate is set to 19200 when it is powered up. Baud rates of 1200, 2400, 4800, 9600 and 38400 can also be selected via a remote programming command or you can select 19200 as the baud rate of the controller. Refer to "SYSTEM:COMMunicate:SERial:BAUD" in the "Programming Commands" section of Chapter 4 of this manual for more information.

If the monitor display is blank.

- Check if the image source selected using the **Select Image Source** key is "Video In."
- Check that the proper video input selection is made in the "Video=" menu (under the **System** key).
- Check if the source of the video signal is active and that the video cable is connected and not damaged.

If the video on the monitor is unintelligible.

- If the active video inputs are the component inputs, ensure that the video sync signal source is not set to external if external sync is not being used. The "Sync =" menu is under the **System** key.
- If the active video input is the composite input and the video input format is SECAM, change the "Line Format =" menu under the **System** key to SECAM.



**If You Encounter a Problem**

The Print Manager automatically detects the video input format, but it interprets SECAM as 625 PAL format, resulting in a garbled monitor display.

If the monitor always displays a color video input signal in monochrome.

- Check that the monitor being used is not a monochrome-only monitor.
- If the active video input is the composite input, check if the video input standard is SECAM. When the video input standard is SECAM, it is normal for the monitor to always display the video input signal in monochrome. Images, however, will print in color.

If the printer will not produce a print.

- Check that power is getting to the Print Manager and external printer, the printer fuse is not open, and the line switch is turned on.
- Check that the printer is not out of paper, and that the paper is not jammed.
- Check that the proper printer selection is made in the "Printer =" menu.
- Check that the Centronics cable is correctly connected between the Print Manager and external printer and that the cable is not damaged.

If the image will not print in color.

- Check that the proper printer selection is made in the "Printer =" menu.
- Check that the external printer being used supports color printing.
- Check that any applicable switches or menus on the external printer are set correctly.

Some color printers might have a color/monochrome setting to improve, for example, their print resolution.

- Check if the ink jet cartridges in the printer need priming, cleaning, or replacement (refer to the manual for the printer).

If black bars appear at one or more edges of printed images.

- Change the "Print Under Scan =" menu (in the **System** (Install) menus) to off.

If the edges of an ink jet print look uneven or ragged or visual bands occur in the whole image.

- Change the "Print Mode =" menu (in the **System** (Install) menus) to a different setting.

"Draft" produces the fastest print output, but banding is likely to occur in the printed image. "Normal" is faster than the "Hi Quality" setting and is less likely to produce banding than the "Draft" setting. "Hi Quality" produces the best quality print, but print speed is the slowest of the three settings. It is the recommended setting for most applications. Refer to the manual for your ink jet printer for more information on this function

- Check if the ink jet cartridges in the printer need priming, cleaning, or replacement (refer to the manual for the printer).

Setting Up the Video Printer System  
**If You Encounter a Problem**

The following information is provided to help you troubleshoot any problems that may occur when setting up the video printer system. If you are unable to resolve the problem, contact your local service representative for assistance.

**Problem: The printer does not print.**

**Solution:** Check the printer status. Make sure the printer is powered on and that the paper tray is full. Verify that the printer is connected to the computer and that the printer driver is installed correctly. Check the printer settings in the software to ensure that the printer is selected as the default printer.

**Problem: The printer prints a blank page.**

**Solution:** Check the printer status. Make sure the printer is powered on and that the paper tray is full. Verify that the printer is connected to the computer and that the printer driver is installed correctly. Check the printer settings in the software to ensure that the printer is selected as the default printer.

**Problem: The printer prints a distorted page.**

**Solution:** Check the printer status. Make sure the printer is powered on and that the paper tray is full. Verify that the printer is connected to the computer and that the printer driver is installed correctly. Check the printer settings in the software to ensure that the printer is selected as the default printer.





If the printer will not produce a print.

- Check that power is getting to the Print Manager and external printer, the fuses are not open, and the line switches are turned on.
- Check that the printer is not out of paper, and that the paper is not jammed.
- Check that the proper printer selection is made in the "Printer =" menu under the **System** (Install) key.
- Check that the Centronics cable is correctly connected between the Print Manager and external printer and that the cable is not damaged.

If there is a long time delay between copies of the same printed page.

- Check if the printer connected to the Print Manager supports multiple-copy printing.

If the printer does not support multiple-copy printing and you request multiple copies, the Print Manager reprocesses and sends the image data to the printer for each copy requested, significantly slowing down the printing process.

If the displayed or printed image is blurred or striping occurs in part of the image.

If striping or visual bands occur in the whole image, refer to the following problem statement.

- Check that the appropriate resolution is set in the "Resolution=" menu under the **System** key. Resolution of a frame is determined as it is grabbed; once the frame has been grabbed, you must re-grab it to change the resolution. Note that changing the resolution *will totally clear frame memory*, so do not change resolution if frame memory contains other images you do not want cleared.
- If the "Resolution=" menu choice is set to "High," change the "Print Fields =" parameter under the **System** key to select only one of the fields.

If motion occurred between the fields in the frame, the two fields might contain slightly offset images, resulting in blurring or horizontal striping in the offset portion of the image. If only one of the fields is selected, the Print Manager will interpolate the missing pixels of the other field.

### If You Encounter a Problem

If the edges of an ink jet print look uneven or ragged or visual bands occur in the whole image.

- Change the "Print Mode =" menu (in the **System** (Install) menus) to a different setting.

"Draft" produces the fastest print output, but banding is likely to occur in the printed image. "Normal" is faster than the "Hi Quality" setting and is less likely to produce banding than the "Draft" setting. "Hi Quality" produces the best quality print, but print speed is the slowest of the three settings. It is the recommended setting for most applications. Refer to the manual for your ink jet printer for more information on this function

- Check if the ink jet cartridges in the printer need priming, cleaning, or replacement (refer to the manual for the printer).

If the color or contrast of the printed image is incorrect.

- Check that the proper printer selection is made in the "Printer =" menu under the **System** (Install) key.

- Check that the setting of the "Paper Type =" menu (under the **System** (Install) key) matches the type of print media you are using.

- If the active video inputs are the component inputs, check that the component video format chosen in the "Video =" menu matches the component video format you are using. The "Video =" menu is under the **System** key.

- Check that the printer is printing on the correct side of the print media.

Most print media has an indicator on either itself or on its package to indicate the proper side to print on.

- Alter the applicable color or contrast parameters under the **System** key. Refer to the tasks "To Adjust the Quality and Color of a Composite Video Image Being Grabbed" or "To Adjust the Quality and Color of a Component Video Image Being Grabbed" in Chapter 3. Note that these parameters affect the frame only as it is grabbed; once the frame has been grabbed, you must re-grab it to effect a change in color or contrast.

If black bars appear at one or more edges of printed images.

- Change the "Print Under Scan =" menu (in the **System** (Install) menus) to off.

If there is a long time delay between copies of the same printed page.

- Check if the printer connected to the Print Manager supports multiple-copy printing.

If the printer does not support multiple-copy printing and you request multiple copies, the Print Manager reprocesses and sends the image data to the printer for each copy requested, significantly slowing down the printing process.

If task settings you have saved are lost.

- Ensure that no one has saved over your task settings. When someone saves task settings to a task memory location, the previous settings in that memory location are lost. You can assign a name to the memory location that will appear in the display to remind other users that it already contains task information. Refer to “Programming Commands” in Chapter 4 for information on the “MEMory:STAtE:NAME” command.
- Check that the battery that backs up task memory is not expended. Refer to the *HP VidJet Pro Video Print Manager Service Guide* for the procedure on checking and replacing the battery.

If black bars appear at one or more edges of printed images.

- Change the “Print Under Scan =” menu (in the **System** (Install) menus) to off.

If the edges of an ink jet print look uneven or ragged or visual bands occur in the whole image.

- Change the “Print Mode =” menu (in the **System** (Install) menus) to a different setting.

“Draft” produces the fastest print output, but banding is likely to occur in the printed image. “Normal” is faster than the “Hi Quality” setting and is less likely to produce banding than the “Draft” setting. “Hi Quality” produces the best quality print, but print speed is the slowest of the three settings. It is the recommended setting for most applications. Refer to the manual for your ink jet printer for more information on this function

- Check if the ink jet cartridges in the printer need priming, cleaning, or replacement (refer to the manual for the printer).



Customizing Printed Images  
**If You Encounter a Problem**

When you print an image, you may encounter a problem. For example, the image may not print at all, or it may print with a black border. This section provides information about common printing problems and how to solve them.

If you encounter a problem, first check the printer's status. Make sure the printer is turned on and has enough paper and ink. Also, check the printer's settings to make sure they are correct.

If the problem persists, try printing a test page. This will help you determine if the problem is with the printer or with the image. If the test page prints correctly, the problem is with the image. If the test page does not print, the problem is with the printer.

If the problem is with the image, check the image's resolution. A low-resolution image may not print correctly. Also, check the image's color settings. Make sure the image is in the correct color mode.

If the problem is with the printer, check the printer's settings. Make sure the printer is set to print the image correctly. Also, check the printer's driver software. Make sure it is up to date.

If you are still having trouble, contact your printer's manufacturer for support. They will be able to help you solve the problem.

For more information about printing images, see the printer's user manual. It contains detailed instructions for printing images and troubleshooting common problems.

Thank you for using our software. We hope you have a great experience printing your images.

---

## Connectors

The following presents information necessary to interface the Print Manager to external devices via the RS-422, RS-232, and Timecode Input connectors (pin numbers are printed on the connectors).

---

### REMOTE FRONT PANEL

This connector is used only for diagnostic purposes.

#### RS-422

This connector is used to interface an external system controller to the Print Manager when controlling it remotely. The connections are specified as a tributary port in the SMPTE 207M proposed standard. The following pin information is valid when the adjacent switch is set to RS-422. The control interface should be set to: 19200 baud rate, 8 bit ASCII (0 parity), 1 stop bit, flow control to Xon/Xoff.

#### RS-422 Connector Pin Information

Pin Number	Signal	Input or Output?
1	Ground	
2	Transmit —	0
3	Receive +	1
4	Transmit Common	
5	NC <sup>1</sup>	
6	Receive Common	
7	Transmit +	0
8	Receive —	1
9	Ground	

<sup>1</sup> NC - Not Connected

#### RS-232

This connector is used to interface the Print Manager with an external computer. The following pin information is valid when the adjacent switch is

Reference  
**Connectors**

set to RS-232. The control interface should be set to: 19200 baud rate, 8 bit ASCII (0 parity), 1 stop bit, flow control to Xon/Xoff.

**RS-232 Connector Pin Information**

Pin Number	Signal	Input or Output?
1	Ground	
2	Transmit	0
3	Receive	1
4	DTR (unused)	0
5	Ground	
6	NC <sup>1</sup>	
7	NC	
8	Input (unused)	1
9	NC	

1 NC - Not Connected

---

## Programming Commands

The Print Manager can be remotely controlled using an external controller through the use of programming commands.

---

### Syntax

Commands for setting parameters require an argument be sent as part of the command. The arguments for the commands listed in the following table are indicated by *italics*. The choices for the argument or the numeric parameter range are shown in the second column of the table. Additional conventions used in the syntax statements are defined as follows:

- Upper-Case Lettering (SYSTem:TIME) indicates that the upper-case portion of the command is the minimum required for the command. Note that this portion of the command does not have to be entered in upper-case lettering. It can be entered in upper or lower case lettering, or a combination of both.
- Lower-Case Lettering (SYSTem:TIME) indicates that the lower-case portion of the command is optional; it can either be included with the upper-case portion of the command or omitted.

Commands that end in a question mark (?) are called queries. When a query is sent to the Print Manager, it will return data in response. For example, if the query "INPut:VIDeo:FORMat?" is sent to the Print Manager, it will return the currently selected video input (either COMP, YC, GBR, GBR2, WS, WOS, BETA, EBU, MII, or D422). Query responses are always returned in upper-case lettering.

**Programming Commands**

**Notes**

1. Print Manager commands are not executed until they are followed by the line feed character.
2. If controlling the Print Manager from a terminal, set Local Echo to ON. Auto Line Feed should be set to ON for outbound commands, but not for incoming responses from the Print Manager.
3. When controlling the Print Manager from a terminal, the control interface should be set to: 19200 baud rate, 8 bit ASCII (0 parity), 1 stop bit, flow control to Xon/Xoff.
4. The RS-232/422 remote interface does not acknowledge receipt of commands sent to it by the controller. Therefore, data passed between the Print Manager and the controller can possibly be lost under the following conditions:
  - a. The controller is performing a processor-intensive task (such as math calculations).
  - b. The controller issues another command or query before the Print Manager has correctly received and executed the previous command or query.
  - c. The controller receives and responds to an interrupt from another device before the Print Manager has finished sourcing data to it (such as frame data).
5. Commands with the same root can be chained together by eliminating the redundant root portion and separating the unique command segments with a semicolon followed immediately by a colon (;:). For example, sending the chained commands `":MEM:FRAM:TAG ON; :GRAB:STOP CIRC; :GRAB:IMM ONCE"` is equivalent to sending the commands `":MEM:FRAM:TAG ON"`, `":MEM:FRAM:GRAB:STOP CIRC"`, and `":MEM:FRAM:GRAB:IMM ONCE"` on separate lines.



Programming Commands

Command	Argument Choice/ Parameter Range	Description
ABORt		Stops current print or grab activity.
*CLS		Clears all errors from the error queue.
*DDT " <i>cmd</i> "	<i>cmd</i> = HCOP:FRAM:IMM ONCE, HCOP:FRAM:IMM SEQ, MEM:FRAM:GRAB:IMM ONCE, MEM:FRAM:GRAB:IMM SEQ, ABOR, NONE	Sets the remote command that will be executed when a GPI trigger occurs.
*DDT?		Returns the command that will be executed when a GPI trigger occurs.
HCOPY:COLor:TYPE <i>type</i>	<i>type</i> = COLor, MONOchrome	Sets whether the Print Manager prints in color or monochrome.
HCOPY:COLor:TYPE?		Returns whether the Print Manager currently prints images in color or monochrome.
HCOPY:COPIes <i>copies</i>	<i>copies</i> = 1 to 99	Sets the number of copies to print.
HCOPY:COPIes?		Returns current number of copies that will print.
HCOPY:DESTination:NAME <i>printer</i>	<i>printer</i> = HP_DJ310, HP_DJ500, HP_DJ500C, HP_DJ550C, HP_DJ650C, HP_DJ1200C, HP_LJ2, HP_LJ3, HP_LJ4, HP_LJ4L, HP_PJXL300	Sets the type of printer that is being used.
HCOPY:DESTination:NAME?		Returns the current printer selection.
HCOPY:FRAMe:IMMEDIATE <i>print</i>	<i>print</i> = ONCE, SEQUENCE	Prints one frame (ONCE) or a sequence of frames (SEQUENCE).
HCOPY:FRAMe:USCAn <i>state</i>	<i>state</i> = 0 (or OFF), 1 (or ON)	Turns printer under scan on or off.
HCOPY:FRAMe:USCAn?		Returns the on/off status of the printer under scan function (1 if on, 0 if off).
HCOPY:HEADer:PAGE:NUMBER:STATE <i>state</i>	<i>state</i> = 0 (or OFF), 1 (or ON)	Turns automatic page numbering on or off.
HCOPY:HEADer:PAGE:NUMBER:STATE?		Returns the on/off status of automatic page numbering (1 if on, 0 if off).
HCOPY:HEADer:TDSamp:STATE <i>state</i>	<i>state</i> = 0 (or OFF), 1 (or ON)	Turns the time/date stamp (printed at the top of each page) on or off.
HCOPY:HEADer:TDSamp:STATE?		Returns the on/off status of the time/date stamp (1 if on, 0 if off).
HCOPY:HEADer:TEXT:DATA <i>line</i> <i>"string"</i>	<i>line</i> = 1, 2 <i>string</i> = 70 characters on line 1 and 20 characters on line 2.	Loads custom header text. <i>Line</i> is the line of the custom header that is being loaded with text and <i>"string"</i> is the actual header text, including the label (Client:, Reel #:, etc.).
HCOPY:HEADer:TEXT:DATA <i>line</i> ?		Returns the custom header text that will be printed on the header line represented by <i>line</i> .
HCOPY:HEADer:TEXT:TYPE <i>type</i>	<i>type</i> = OFF, STANDard, CUSTom	Sets the type of header text to be printed.

## Reference

## Programming Commands

## Programming Commands (continued)

Command	Argument Choice/ Parameter Range	Description
HCOPY:HEADer:TEXT:TYPE?		Returns the type of header text that will be printed.
HCOPY:IMAGe:POSItion <i>postn</i>	<i>postn</i> = URIGht, ULEFt, CENTer, LLEFt, LRIGht	Sets the position of a single image on the printed page.
HCOPY:IMAGe:POSItion?		Returns the single image print position.
HCOPY:IMAGe:SIZE:FIXed <i>isize</i>	<i>isize</i> = MM_20_0, MM_25_0, MM_38_0, MM_51_0, MM_76_0, MM_102_0, MM_127_0, MM_152_0, MM_178_0, MM_241_0, MM_330_0, MM_508_0, MM_762_0, MM_1067_0, IN_0_8, IN_1_0, IN_1_5, IN_2_0, IN_3_0, IN_4_0, IN_5_0, IN_6_0, IN_7_0, IN_9_0, IN_13_0, IN_20_0, IN_30_0, IN_42_0	Sets the printed image size.
HCOPY:IMAGe:SIZE:FIXed?		Returns the current printed image size.
HCOPY:IMAGe:TCODe:STATe <i>state</i>	<i>state</i> = 0 (or OFF), 1 (or ON)	Turns the printing of the time code below each image on or off.
HCOPY:IMAGe:TCODe:STATe?		Returns the on/off status of time code printing (1 if on, 0 if off).
HCOPY:PAGE:FORMat <i>format</i>	<i>format</i> = TILE, ONE, FOUR, SIX, STOR1 (through 4), LOGS1 (through 4)	Sets the formatting of the printed page.
HCOPY:PAGE:FORMat?		Returns the current printed page format.
HCOPY:PAGE:SIZE <i>psize</i>	<i>psize</i> = EXECutive, LETTer, LEGal, B, C, D, DARChitect, E, EARChitect, ENV10, ENVMonarch, A4, A3, A2, A1, A10Versize, A0, A00Versize, B5, B4, B3, B2, B1, B0, DL, C5	Sets the printer paper size that is being used.
HCOPY:PAGE:SIZE?		Returns the current printer paper size setting.
HCOPY:PAGE:TYPE <i>paper</i>	<i>paper</i> = PLAIN, HPCX, HPLX, GLOSsy, TRANsparency	Sets the type of printer paper being used.
HCOPY:PAGE:TYPE?		Returns the current printer paper type.
HCOPY:QUALity:SHINgling <i>pqual</i>	<i>pqual</i> = FAST, NORMal, HIQuality	Sets the print quality used in ink jet printing.
HCOPY:QUALity:SHINgling?		Returns the current print quality used in ink jet printing.
HCOPY:SHARpen <i>shar</i>	<i>shar</i> = LOW, NORMal, HIGH	Sets the print sharpness.
HCOPY:SHARpen?		Returns the current print sharpness.

**Programming Commands (continued)**

Command	Argument Choice/ Parameter Range	Description
HCOPY:SOURce:FEED <i>isource</i>	<i>isource</i> = VIDEO, MEMory	Sets the printed image source.
HCOPY:SOURce:FEED?		Returns the current printed image source.
HCOPY:STATe:IMMediate ONCE		Prints a listing of the current Setup menu settings.
HCOPY:VIDeo:FIELD <i>field</i>	<i>field</i> = FLD1, FLD2, BOTH	Sets the field of the video frame to be printed.
HCOPY:VIDeo:FIELD?		Returns the current field of the video frame that will print.
*IDN?		Returns a device identification string in the form "Hewlett-Packard, E2530A VidJet Pro, <i>device ID</i> , <i>serial number</i> , <i>software version number</i> , <i>virtual machine type</i> ."
INPut:GRAB:BRIGhtness <i>bright</i>	<i>bright</i> = 0 to 200	Sets the brightness of the grabbed image.
INPut:GRAB:BRIGhtness?		Returns the current grabbed image brightness.
INPut:GRAB:COLor:TYPE <i>type</i>	<i>type</i> = COLor, MONOchrome	Sets whether the Print Manager grabs in color or monochrome.
INPut:GRAB:COLor:TYPE?		Returns whether the Print Manager currently grabs in color or monochrome.
INPut:GRAB:CONTrast <i>contr</i>	<i>contr</i> = 0 to 200	Sets the contrast of the grabbed image.
INPut:GRAB:CONTrast?		Returns the current grabbed image contrast.
INPut:GRAB:FREeZe <i>state</i>	<i>state</i> = 0 (or OFF), 1 (or ON)	Turns frame pause when grabbing on or off.
INPut:GRAB:FREeZe?		Returns the on/off status of frame pause when grabbing (1 if on, 0 if off).
INPut:GRAB:GAIN:B_BY <i>bgain</i>	<i>bgain</i> = -10 to +10	Sets the gain of the B/B—Y component signal input.
INPut:GRAB:GAIN:B_BY?		Returns the currently selected gain of the B/B—Y component signal input.
INPut:GRAB:GAIN:GY <i>ggain</i>	<i>ggain</i> = -10 to +10	Sets the gain of the G/Y component signal input.
INPut:GRAB:GAIN:GY?		Returns the currently selected gain of the G/Y component signal input.
INPut:GRAB:GAIN:R_RY <i>rgain</i>	<i>rgain</i> = -10 to +10	Sets the gain of the R/R—Y component signal input.
INPut:GRAB:GAIN:R_RY?		Returns the currently selected gain of the R/R—Y component signal input.
INPut:GRAB:HUE <i>hue</i>	<i>hue</i> = -180 to 180	Sets the hue rotation of the grabbed image.
INPut:GRAB:HUE?		Returns the hue rotation of the grabbed image.
INPut:GRAB:RESolution <i>res</i>	<i>res</i> = LOW, MEDium, HIGH	Sets the resolution in which video images are grabbed.
INPut:GRAB:RESolution?		Returns the current grabbed image resolution.
INPut:GRAB:SATuratiOn <i>satu</i>	<i>satu</i> = 0 to 200	Sets the saturation of the grabbed image.
INPut:GRAB:SATuratiOn?		Returns the current grabbed image saturation.
INPut:GRAB:SYNC <i>sync</i>	<i>sync</i> = EXTernal, GY	Sets the component video synchronizing signal input.



Reference  
**Programming Commands**

**Programming Commands (continued)**

Command	Argument Choice/ Parameter Range	Description
INPut:GRAB:SYNC?		Returns the currently selected component video synchronizing signal input.
INPut:TCODE:SOURce <i>source</i>	<i>source</i> = INTernal, LTC, REMote	Sets the source that the time code is read from.
INPut:TCODE:SOURce?		Returns the current source that the time code is read from.
INPut:VIDeo:FORMat <i>format</i>	<i>format</i> = COMPosite, YC, GBR, GBR2, WS, WOS, BETA, EBU, MII, D422	Sets the video format in which images are grabbed.
INPut:VIDeo:FORMat?		Returns the current video format in which images are grabbed.
INPut:VIDeo:LINEs <i>lines</i>	<i>lines</i> = AUTO, NTSC, PAL, SECAM	Sets the video standard expected at the video input. AUTO sets the Print Manager to automatically adapt to the incoming video.
INPut:VIDeo:LINEs?		Returns the video standard set with the "INPut:VIDeo:LINEs" command.
MEMory:CATalog:FRAMe?		Returns the number of frames grabbed, the number of free frames in frame memory, and the current frame. The response is in the form X,Y,Z where X is the number of grabbed frames, Y is the number of free frames, and Z is the current frame. <sup>1</sup>
MEMory:FRAMe:DELeTe <i>frm</i>	<i>frm</i> = ALL, SINGLE	Clears all frames (ALL) or the current frame (SINGLE) from frame memory. <sup>1</sup>
MEMory:FRAMe:GRAB:DATA <i>fdat</i> <sup>2</sup>	<i>fdat</i> = #DCCCBBBB ... B	Sends a field of 4:2:2 data to the Print Manager in the format #DCCCBBBB ... B. D is a non-zero digit that indicates the number of count digits (CCC) immediately following it. CCC are the count digits that indicate the total number of data bytes that follow. BBBB ... B are the data bytes. The field is placed in the next available space in frame memory. If the current-selected field is "Both," the data will be assumed to be field 1 data.
MEMory:FRAMe:GRAB:DATA? <sup>2</sup>		Returns 4:2:2 data for the current-selected field of the current frame in the format #DCCCBBBB ... B. <sup>1</sup> D is a non-zero digit that indicates the number of count digits (CCC) immediately following it. CCC are the count digits that indicate the total number of data bytes that follow. BBBB ... B are the data bytes. If the current-selected field is "Both," field 1 will be returned.
MEMory:FRAMe:GRAB:IMMediate <i>grab</i>	<i>grab</i> = ONCE, SEQUENCE	Grabs one frame (ONCE) or a sequence of frames (SEQUENCE) and stores them in frame memory.
MEMory:FRAMe:GRAB:STOP <i>stp</i>	<i>stp</i> = CIRCular, FULL	Sets how frame memory responds to sequence grabbing when full.

<sup>1</sup> The current frame is the frame that is displayed on the monitor when **Select Image Source** is set to Memory.

<sup>2</sup> This command can be used, but is not supported and might not function properly if the firmware version number of the Print Manager is 4.0 or greater. If you have firmware version number 4.0 or greater, use the HP VidJet Pro Utilities software to capture data from or send data to the Print Manager.

Programming Commands (continued)

Command	Argument Choice/ Parameter Range	Description
MEMory:FRAMe:GRAB:STOP?		Returns how frame memory currently responds to sequence grabbing when full.
MEMory:FRAMe:GRAB:TCODE 0, <i>tcode</i>	<i>tcode</i> = time code in format hour,minute,second,frame	When the Print Manager time code source is Remote, sets the time code for the next grabbed frame.
MEMory:FRAMe:GRAB:TCODE?		Returns the time code for the last frame that was grabbed into frame memory, regardless of the time code source setting.
MEMory:FRAMe:TAG <i>status</i>	<i>status</i> = ON, OFF	Tags (ON) or untags (OFF) the current frame. <sup>1</sup>
MEMory:FRAMe:TAG?		Returns the current tagged (ON) or untagged (OFF) status of the current frame. <sup>1</sup>
MEMory:STATe:NAME <i>regno</i> , " <i>name</i> "	<i>regno</i> = 1 to 6 <i>name</i> = 13 character alphanumeric string	Assigns a name ( <i>name</i> ) to a given user task memory register ( <i>regno</i> ).
MEMory:STATe:NAME? <i>regno</i>	<i>regno</i> = 1 to 6	Returns the current name (in quotes) of the task memory register indicated by <i>regno</i> .
*OPC?		Returns +1 when all programming commands that have been sent to the Print Manager have completed execution.
*RCL <i>regno</i>	<i>regno</i> = 1 to 10	Recalls a setup from the task memory register indicated by <i>regno</i> .
*RST		Resets the Print Manager parameters to system default settings.
*SAV <i>regno</i>	<i>regno</i> = 1 to 6	Saves the current setup to the task memory register indicated by <i>regno</i> .
*STATUS?		Returns current activity status of the Print Manager. Some responses might be "Grabbing," "Printing," "Waiting for Trigger," etc.
SYSTem:COMMunicate:SERial:BAUD <i>brate</i>	<i>brate</i> = 1200, 2400, 4800, 9600, 19200, 38400	Sets the baud rate of the remote control port.
SYSTem:COMMunicate:SERial:BAUD?		Returns the current remote control port baud rate.
SYSTem:DAY:NUMBer <i>day</i>	<i>day</i> = 1 to 31	Sets the day of the month.
SYSTem:DAY:NUMBer?		Returns the current day of the month.
SYSTem:KEY <i>kcode</i>	<i>kcode</i> = See following table.	Simulates pressing the front panel key represented by <i>kcode</i> .
SYSTem:MONTH <i>month</i>	<i>month</i> = 1 to 12	Sets the month of the year.
SYSTem:MONTH?		Returns the current month of the year.

<sup>1</sup> The current frame is the frame that is displayed on the monitor when **Select Image Source** is set to Memory.



## Programming Commands

## Programming Commands (continued)

Command	Argument Choice/ Parameter Range	Description
SYSTem:TIME <i>hour,minute,second</i>	<i>hour</i> = 0 to 23 <i>minute</i> = 0 to 59 <i>second</i> = 0 to 59	Sets the Print Manager's internal clock.
SYSTem:TIME?		Returns the current setting of the internal clock.
SYSTem:VERSion?		Returns the current firmware revision number.
SYSTem:YEAR <i>year</i>	<i>year</i> = 1980 to 2079	Sets the year.
SYSTem:YEAR?		Returns the current year.
*TRG		Simulates a GPI trigger.
TRIGger:SOURce <i>srce</i>	<i>srce</i> = MANual, TIMer, SCENe, SORTimer	Sets the sequence trigger.
TRIGger:SOURce?		Returns the current sequence trigger setting.
TRIGger:TIMer <i>tin</i>	<i>tin</i> = 0 (minimum) to 3600	Sets the time interval for sequence triggering in seconds. Fractions of a second are rounded to the nearest second.
TRIGger:TIMer?		Returns the current sequence trigger time interval.
UNIT:LENGth <i>len</i>	<i>len</i> = ENGLish, METRic	Sets the units used when setting image size and printer paper size.
UNIT:LENGth?		Returns the units used when setting image size and printer paper size.

## SYSTem:KEY Command Key Codes (kcode)

Front Panel Key	Key Code	Front Panel Key	Key Code
Prev Menu	80	Grab Seq	70
⏪ (Menu area)	68	Clear Frame	67
Next Menu	78	⏪ (Frame Memory area)	76
⏩ (Menu area)	85	Tag Frame	71
Recall/Save	65	⏩ (Frame Memory area)	82
System	83	Select Image Source	73
System (Install)	72	Print 1 Frame	50
Page Layout	89	Print Seq	77
Seq Trigger	84	Stop	69
Grab 1 Frame	49		

### Dimensions and Weight

Height: 1RU, 1.75" (44 mm); Width: 16.75" (425.5 mm) to fit standard 19" rack; Depth: 14.35" (364.6 mm); Weight: 7.1 lbs (3.2 Kg).

### Power Requirements

115/230 Vac, 600/300 mA, 50/60 Hz, <30 watts; integral power supply

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## Options

### Electrical Options

#### E2531A - Analog Composite and Y/C Video I/O Card:

Composite and Y/C (S-video) input with 75 $\Omega$ /High-impedance termination switch for each input.

Composite and Y/C (S-video) loop through outputs.

Composite and Y/C (S-video) monitor outputs.

with Time Code Input (Option 001):

Female XLR connector for LTC time code input.

#### E2532A - 2 MB Video RAM:

Option HP E2532A consists of 2 additional Megabytes of video frame memory.

## Technical Information and Options

**E2533A - Analog Component and Composite Video I/O Card:**  
Analog component (GBR SMPTE/EBU, GBR with setup, YPbPr SMPTE/EBU, YPbPr Betacam, YPbPr MII) and composite video inputs with 75Ω/High-impedance termination switch.  
Component and composite loop through outputs.  
Composite monitor output.  
Female XLR connector for LTC time code input.

**E2534A - 4:2:2 Serial Digital Component Video I/O Card:**  
4:2:2 Serial digital component video input (525/625).  
Reclocked and buffered 4:2:2 serial digital component loop-through output.  
Composite monitor output.  
Female XLR connector for LTC time code input.

**E2535A - HP VidJet Pro Utilities Software**  
A Microsoft® Windows™-based software application that allows you to control the Print Manager via a PC-compatible computer. Provides additional capability of drag-and-drop storyboard editing, keyboard entry of storyboard text, image transfer between the PC and HP VidJet Pro, and a time code triggering mode.

### Documentation Options

**0B2 - Extra User Documentation:**  
Option 0B2 consists of the following extra set of user documentation:  
*HP VidJet Pro Video Print Manager User's Guide*  
*HP VidJet Pro Video Print Manager Quick Reference Guide*

**0BW - Extra Service Documentation**  
Option 0BW consists of the following extra service documentation:  
*HP VidJet Pro Video Print Manager Service Guide*

### Warranty Options

**W50 - Two Additional Years Return-to-HP Service**  
The standard warranty can be extended two years with this option.





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Customer  
Reorder No.  
E2530-90025

**Manufacturing  
Part No.  
E2530-90025**



\*E2530-90025\*





## Certificate of Verification

DATE TESTED: 28 Sep 1994

MODEL: E2530A

SERIAL NUMBER: 3350A00494

At the time of manufacture, this certifies that the above product was tested in accordance with applicable Hewlett-Packard procedures which are in compliance with relevant clauses of ISO 9001/2.

At planned intervals, Hewlett-Packard measurement standards are calibrated by comparison to or measurement against national standards, natural physical constants, consensus standards, or by ratio type measurements using self-calibrating techniques.

National Standards are administered by NIST (National Institute of Standards and Technology) or other recognized national standards laboratories.

At the time of shipment, your product met its published operating specifications. Additional testing of the product on regular intervals will not be necessary.

The environment in which this product was tested is maintained within the operating specifications of the product and the test standards.

Supporting documentation relative to traceability is on file and is available for examination upon request.

A handwritten signature in cursive script that reads 'Rice Wilkin'.

MANUFACTURING MANAGER



\*5959-4639\*





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