

## Installing the HP Vectra XP On-Board Display Adapter Device Driver for NEXTSTEP Release 3.2 for Intel Processors

These instructions show you how to install the HP Vectra XP on-board display adapter device driver on an HP Vectra XP computer running NEXTSTEP™ Release 3.2. The driver is distributed in an Installer package file named **HPXPDisplayDriver.pkg**.

This new graphics driver is designed to support the on-board graphics controller of the Hewlett-Packard Vectra XP series computer. The on-board graphics controller is based on the S3-928 chipset and can support 2MB or 4MB of VRAM. This driver supports three configurations in the following display modes.

### HP Vectra XP on-board Display Adapter Display Modes

#### 2 MB VRAM Lo-res

#### 8-bit Grayscale

800x600

#### 16-bit Color

800x600

#### 32-bit Color

600x480

60 or 72 Hz

60 or 72 Hz

60 or 72 Hz

1024x768

1024x768

800x600

60 or 75 Hz

60 or 75 Hz

60 or 72 Hz

If you are using a high resolution display, the device driver supports the following additional display modes.

**HP Vectra XP on-board Display Adapter Display Modes**  
**2 MB VRAM Hi-res**

**8-bit Grayscale**

**16-bit Color**

**32-bit Color**

1152x819

1152x819

60 or 72 Hz

60 or 72 Hz

1280x1024

60 or 75 Hz

1600x1200

60 Hz

If your display adapter has 4 megabytes of VRAM, the device driver supports the following additional display modes.

**HP Vectra XP on-board Display Adapter Display Modes**  
**4 MB VRAM**

<b>8-bit Grayscale</b>	<b>16-bit Color</b>	<b>32-bit Color</b>
	1280x1024 60 Hz	1024x768 60 Hz

**Warning:** Some vendors claim that you can use their display adapters at display modes with resolutions and refresh rates that exceed what their RAMDACs can support. You can permanently damage your display adapter and computer by doing this. Read the owner's guide that comes with your display adapter or contact its manufacturer to ensure that your adapter's RAMDAC can support the display mode you set in Configure.

**Supported Displays**

NeXT designs and tests its display adapter device drivers using very high frequency displays that can support display modes with very high resolutions and non-interlaced refresh rates, such as the NEC 5FG, NEC 6FG, and Nokia Multigraph 445X. Read the owner's guide that comes with your display to ensure it can support the display mode you set in Configure.

## Installing the Device Driver

1. If you received the **HPXPDisplayDriver.pkg** file via NeXTmail™ or another electronic source, place a copy of the file in a location where you can access it when you log in as **root**.
2. Log in as **root**.  
Only the superuser, **root**, can install the device driver. If you're not sure how to log in as **root**, see your system administrator.
3. If you received the **HPXPDisplayDriver.pkg** file on a floppy disk, insert the disk in the floppy disk drive and choose Check for Disks from the Workspace Manager™ application's Disk menu. When the disk icon

appears in the File Viewer, double-click it to open it.

**Note:** Make sure Configure isn't running while you install the **HPXPDisplayDriver.pkg** package. Otherwise the drivers you add may not appear in Configure's Add Display Devices panel.

4. Double-click the **HPXPDisplayDriver.pkg** file.
5. Click the Install button in the Installer package window. When the panel asks you to confirm that you want to install software for Intel-based computers, click Install.
6. When the installation is complete, choose Quit from the Installer menu.

## **Configuring the HP Vectra XP on-board Display Adapter**

1. Start up the Configure application by double-clicking **Configure.app** (it's in **/NextAdmin**).
2. Click the Display icon at the top of Configure's Summary window. Your current adapter appears in the list at the top of Configure's Display Devices window. The current adapter should be the Default VGA Adapter.
3. Select the Default VGA Adapter and click Remove.

**Caution:** Because of a known bug in Configure, at this point you have to click save, ignore the warning that there is no display adapter chosen, quit, then restart Configure, and click the display icon. Now continue to step 4.

4. Click Add.
5. The Hi-res and the Lo-res drivers work with HP Vectra XP computers with 2Mb of display adapter memory. All three drivers work with computers with 4 Mb of display adapter memory. In the Add Display Devices panel select the appropriate driver to match memory and the display monitor resources. Then click Add.
6. In the Display Mode area of the Display Devices window click Select, and in the Select Display Mode panel select the combination of color, resolution, and refresh rate appropriate for your adapter and display (for details, see the charts earlier in this document). Then click OK.

**Note:** Higher resolution modes may require higher resolution displays. Refer to the manual for your display to determine valid modes.

7. Choose Save from Configure's Configuration menu and then choose Quit.

## Removing the Install Package and Restarting the Computer

1. If you had created a copy of the **HPXPDisplayDriver.pkg** file in step 1, drag the copy to the recycler.
2. Choose Log Out from the Workspace menu and then click the Restart button in the Login window.

**Note:** You must restart your computer after installing and configuring the device driver. The next time you start up your computer, it will use the new driver to display NEXTSTEP in the display mode you selected in Configure.

For information about logging in and out, the Workspace Manager application, and the Installer application, see the *NEXTSTEP User's Guide*. For information about the Configure application, see *Installing and Configuring NEXTSTEP Version 1 for Intel Processors*. For information concerning compatibility issues and bugs, refer to NeXTanswers.

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