WeitekPower Windows95 Display Drivers

(DFB Release 1.08)

Driver Installation Procedure

- A -

If you are Installing Windows95 for the first time

1. If you have a PCI-bus Display Adapter the Plug&Play manager will recognize the Weitek Chipset and during installation you may be asked to select the drivers for your display card (If not asked then choose VGA and refer to the next Procedure). There is usually a list of several driver installation options, including buttons for "**Default**", "**Standard VGA**" etc.

2. Choose the "**Manufacturer Supplied Drivers**" option in the window and then the **Have Disk** button. Insert the diskette containing the WeitekPower Drivers (e.g. the diskette in A: drive) and enter the location of the driver diskette e.g. **A:** (if the diskette is in that drive)

3. Choose the appropriate option that matches the description of the card in your system and click on **OK**.

The drivers will be installed and you will be returned to the main **Settings** window where you can select your preferred resolution and color depth. After you have selected a mode you will be asked if System can be restarted. Restart the system and enjoy !

- B -

If Windows95 is already installed with VGA (or other, or previous version) display drivers

1. Open the **Control Panel** folder and choose the **Display** Icon **or,** Using the mouse, right-click on an empty space in the main Desktop Window and choose **Properties**.

N.B. If, upon entering the Display Setting dialog, a window should appear claiming that the detected Display Adapter configuration is in error, do not click **OK** instead click on **Cancel** and proceed to step 2 : **Change Display Type**. Normally Windows will ask that the card be re-detected using the "Add New Hardware" wizard. By selecting Cancel you can avoid this unneccessary and lengthy process.

2. Click on the tabbed Windows titled **Settings** and then click on the button **Change Display Type**.

3. You should first select the **Monitor** Model to match your system if this is already done skip to the next step.

4. Click on the **Change** button in the **Adapter Type** window and then the **Have Disk** button.

Insert the diskette containing the **WeitekPower Drivers** (e.g. the diskette in **A:** drive) and enter the location of the driver diskette e.g. **A:** (if the diskette is in that drive)

5. Choose the appropriate option that matches the description of the card in your system and Click on **OK**.

The drivers will be installed and you will be returned to the main **Settings** window where you can select your preferred resolution and color depth. After you have selected a mode you will be asked if System can be restarted. Restart the system and enjoy !

Note :

During the initial installation process (and before the system has restarted with the new drivers) the amount of memory on the card is unknown and so the range of available modes is deliberately reduced to avoid mistakes. Not all the resolutions available to your card will be selectable. You must choose to restart the system and then reselect your preferred resolution and color depth while the card is running.

Driver Usage Notes

Using the WeitekCPLX utility :

After system restarts with the new drivers, and the next time you open the Display Properties window from Control Panel (or by right-clicking over an empty spot on the Desktop and selecting Properties), you can enter the utility by choosing the window tab titled **WeitekPower**.

This is the DisplayProperties Control Panel Extension (CPLX) for supporting the WeitekPower Windows95 Display Drivers. Using this utility you can select a prefered **Refresh Rate**, **Monitor Sync** and adjust **Monitor Alignment**, dynamically changing the Size and/or the Postion of the visible screen. Additionally you can change the default settings of your card to improve performance in certain application types, or enable the special features of your card.

Context Sensitive help is supplied through-out this utility. You can get pop-up help on any control, or setting, by right-clicking with the mouse on that item. Additionally Windows95 also provides a Help Tool, the "?" button at the top right of the window. Click this button and then select the control that you wish to learn more about.

Note : Each mode, (resolution and color-depth) will require a separate Refresh Rate Preference and Monitor Adjustment since each mode is stored seperately your preferences are also stored individually with each mode. You can use "**Apply To All Modes**" to unilaterally enforce a particular refresh rate however this **is not recommended** and can easily result in choosing a refresh rate that is either too low for the smaller resolutions or too high possibly exceeding the Monitor's max. bandwidth.

Known Bugs :

Windows95 VDD-bug : On VLB and some early PCI systems the BIOS setup needs to have Shadow BIOS for the VGA Adapter region (**C0000~C7FFF**) set to **Write Protect**, if available. This problem is noticeable if you open a DOS session Full-Screen then press <ALT><ENTER> to return to Windows and again <ALT><ENTER> to return to DOS Full-Screen. If the system then locks-up or gives a BlueScreen fatal-error message this means that the Card's VGA BIOS has been overwritten and you must either enable **Shadow Write Protect** or disable **Video ROM-BIOS Shadowing** altogether. This problem is caused by Windows95 and will not be corrected in future drivers.

Windows95 PnP-bug : Changing cards or moving the location of a PCI-slot Card can result in a detection error. Windows may report an Adapter Configuration Error and require re-detection using the Hardware Wizard. This is a problem in Windows itself, to avoid wasting time in re-detection we recommend you press **Cancel,** when asked to re-detect, and then manually reselect the Display Card using **Change Display Type.**

ViperVLB (P9000 VESA LocalBus) DPMS : A problem has been found in the way the VESA BIOS handles DPMS, the system will lock-up while setting DPMS modes. To overcome this problem DPMS has been disabled in the driver when using ViperVLB cards. We are investigating the cause and a fix is anticipated in a future release. But at this stage we recommend you do not enable the option "**Monitor is EnergyStar Compliant**" when selecting a monitor. Also you should not enable any of the options in the "**Energy saving features of the monitor**" available in the ScreenSaver dialog of the DisplayProperties window.

P9000VLB (VESA LocalBus) Memory Address : Installation using older P9000VLB cards is best done when upgrading over an existing (and working) Windows3.1. In this situation the

Win95 driver will use the existing settings of the Win3.1 environment. In the case where this is a _new installation_ (or maybe in a new sub-directory) the SYSTEM.INI file is of course devoid of previous settings, and so, will be initialized (during driver installation) to contain the setting :

[P9000.OEM]
MemAddr=C000

When the driver starts, auto-detection will be used to confirm this address. If no board is found at C000 the driver will try other locations. For Diamond Viper Boards the driver will not use auto-detection but instead skip immediately to using A000.

Best results will be obtained by editing this file (using a text editor such as **NOTEPAD** or **EDIT**) to contain the correct memory address for the DipSwitch settings on the card. Refer to your cards user manual, some other possiblities include (but not limited to) :

MemAddr=D000
MemAddr=E000
MemAddr=F000

or (for users of the Cardinal P9000VLB)

MemAddr=0C00
MemAddr=0D00
MemAddr=0E00
MemAddr=0F00

or (for users of the Diamond ViperVLB)

MemAddr=A000

Note : We expect to have a more Plug&Play friendly approach in the next driver release.