

# Diamond's Multimedia Accelerators Windows® 95 Support

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Compatibility Report of Diamond's Multimedia  
Accelerators Under Windows® 95 Build 950 (Officially  
released version)

*Version 2.01*

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## I Introduction

The purpose of this document is to outline the steps necessary to run the Windows® 95 operating environment with Diamond's graphic and video accelerators. This document will answer commonly asked questions regarding Diamond products and the Windows 95 platform, as well as explaining how to get your Diamond product to operate under Windows 95.

## II General Questions

### **A *What Diamond products are supported under the Windows 95 platform?***

Almost all of our graphics and video accelerators are currently supported under the Windows 95 platform. Later in this document the exact installation steps will be described for all Diamond products.

### **B *Under what version of Windows 95 was the testing done?***

For the testing described in this document, the production release version 950 was used. This is the latest version of Windows 95. If you are using an older version of the Beta Windows 95 software, some or all of the information may not apply. We recommend that you try the steps described below for the Diamond product you own.

### **C *How do I select a different refresh rate for my Diamond graphic accelerator?***

This is a very common question to Windows 95 users. At the present time, there is VxD support for most of the Diamond graphic accelerators currently shipping. These drivers are located on the Windows 95 CD-ROM in the following directory:

**X:\Drivers\Display\Diamond**

where **X**= the CD-ROM drive (usually D or E)

A more detailed explanation of the installation is listed in later sections.

The standard drivers which are installed within Windows 95 do not have support for the card VxD's. This means that when you install a Diamond graphic card and select a high resolution, the refresh rate is not automatically selected. The result is that you may get an interlaced mode or a lower refresh rate at higher resolutions.

### **D *When is Diamond going to ship their own drivers?***

Diamond is currently very busy at work developing our own drivers to work under the Windows 95 platform. These enhanced drivers will provide you with additional performance and features you have come to expect with Diamond products. This includes a revamped and improved version of the InControl Tools utility software for Windows 95. Actual ship dates for these drivers have not yet been determined. For more information, please see the Compatibility listing document.

### **E *How can I get new information regarding Diamond and the Windows 95 platform?***

You can obtain the latest information regarding Diamond products and the Windows 95 operating environment from the following locations:

1. See our Web Page ([www.diamondmm.com](http://www.diamondmm.com))
2. See our forums on American OnLine or Compuserve.

### III Diamond Multimedia Accelerators supported under Windows 95

Following are the Diamond graphic accelerators that have been tested under Windows 95 build 950 . All of the graphic accelerators noted below have been found to work unless otherwise noted. If you do not find your graphic card listed, it may mean that Diamond has yet to test this graphic card with Windows 95. This document will be updated periodically as more testing is completed.

These procedures assume that you already have the graphic accelerator installed in the system.

#### A **Stealth Series**

The installation procedures outlined below cover the following Diamond accelerators:

Diamond Product	What Windows 95 Detects	Necessary Steps to Get Correct Refresh Rates.
Stealth 64 Video VRAM	S3 801/928/964	Follow "Using Drivers with VxD support" procedure described below.
Stealth 64 Video 3200	S3 801/928/964	Follow "Using Drivers with VxD support" procedure described below.
Stealth Video	S3 801/928/964	Follow "Using Drivers with VxD support" procedure described below.
Stealth 64 VRAM	S3 801/928/964	Follow "Using Drivers with VxD support" procedure described below.
Stealth 64 Graphics 2000	S3 801/928/964	Follow "Using Drivers with VxD support" procedure described below.
Stealth SE	S3 801/928/964	Follow "Using Drivers with VxD support" procedure described below.
Stealth Pro	S3 801/928/964	Follow "Configuring Your Monitor with Diamond GO/GO'95 Utility".
Stealth 24	S3 801/928/964	Follow "Configuring Your Monitor with Diamond GO/GO'95 Utility".
Stealth 32	Tseng Labs ET 4000/W32	Follow "Configuring Your Monitor with Diamond GO/GO'95 Utility". Append the following line to the autoexec.bat file in your root directory.  C:\S32\UTIL\SETMODE MONITOR
Stealth VRAM	S3 911/924	Follow "Configuring Your Monitor with Diamond GO/GO'95 Utility". Append the following line to the autoexec.bat file in your root directory.  C:\VRAM\UTIL\SMODE MONITOR

#### 1 Using Drivers with VxD support (recommended)

- a) From within the Control Panel, click on the Display icon. You may also click on the right mouse button when the mouse pointer is positioned on your wallpaper.
- b) Select the *Settings* Tab.
- c) Select the *Change Display Type...* button.
- d) From the Adapter Type section, select the *Change* button.
- e) Select *Have Disk...*

- f) Choose to copy the manufacturer's files from your CD-ROM drive under the directory **X:\Drivers\Display\Diamond** where **X**= the CD-ROM drive (usually D or E)
- g) You should have a listing of files with INF extensions. Select the file **Stealth.inf**. Click *OK*. If you cannot select **Stealth.inf** with the mouse, you need to manually type in **stealth.inf**. Select *OK* again since the Diamond directory is the default choice.
- h) Choose the Diamond driver that is listed to match your product. If there are other drivers listed, they may be standard drivers without the VxD support. Click *OK*.
- i) Files should begin to copy into Windows 95. However, you may receive a message stating that it cannot find a particular file and you need to insert the Windows 95 CD-ROM. Click *OK* to bypass this message and type **X:\WIN95** (where **X** = your CD-ROM drive) and then click *OK*. This copies the proper Windows 95 files and the installation should continue without interruption.
- j) The Diamond driver should be listed in the Adapter Type section.
- k) To add refresh rate support for higher resolutions, select *Change* from the Monitor Type section.
- l) To show all the monitor manufacturers available, select *Show all devices*.
- m) Find your particular monitor manufacturer by scrolling within the *Manufacturers* section. Highlight your selection.
- n) Select your particular monitor model by scrolling within the *Models* section. Highlight your selection.
- o) Click *OK*.
- p) Select *Close* within the Change Display Type box.
- q) Select *Apply* for the changes to take effect.
- r) You will be prompted to restart Windows for your selection to take effect.

## 2 Configuring Your Monitor with Diamond GO/GO'95 Utility.

The following steps outline exactly how to configure Windows 95 for use with the Stealth Series graphic accelerators.

- a) Run Windows 95. If you have not already have installed Windows 95, do so now.
- b) From within Windows 95, select 'SHUTDOWN' from the Start Menu. Select the 'Restart the computer in MS-DOS Mode' option.
- c) After the system restarts, you will be placed at a DOS prompt. It is now time to configure the GO/GO'95 utility for your monitor. Refer to your manual for details on how to install and use the GO/GO'95 utility.
- d) After you have setup your monitor with the DOS utility, you need to add the line to your autoexec.bat that is listed in the '**Necessary Steps to Get Correct Refresh Rates**' column as listed in the Stealth Series table.
- e) NOTE: If you installed the DOS utility into a different drive or sub-directory than the default choice, enter that path.
- f) Save the modified Autoexec.bat file and restart the system.

g)

## **B SpeedStar Series**

The installation procedures outlined below cover the following Diamond accelerators:

<b>Diamond Product</b>	<b>What Windows 95 Detects</b>	<b>Necessary Steps to Get Correct Refresh Rates.</b>
SpeedStar Pro SE	Cirrus Logic 5329/5434	Follow "Using Drivers with VxD support" procedure described below.
SpeedStar 64	Cirrus Logic 5329/5434	Follow "Using Drivers with VxD support" procedure described below.
SpeedStar Pro VLB	Cirrus Logic	Follow "Configuring Your Monitor with Diamond GO/GO'95 Utility". Append the following line to the autoexec.bat file in your root directory. C:\SSPROUTIL\PROMODE MONITOR
SpeedStar Pro ISA	Cirrus Logic	Follow "Configuring Your Monitor with Diamond GO/GO'95 Utility".
SpeedStar 24x	Western Digital	Follow "Configuring Your Monitor with Diamond GO/GO'95 Utility". Append the following line to the autoexec.bat file in your root directory. C:\24XUTIL\24XMODE MONITOR
SpeedStar 24	Tseng Labs ET4000	Follow "Configuring Your Monitor with Diamond GO/GO'95 Utility". Append the following line to the autoexec.bat file in your root directory. C:\STARUTIL\VMODE MONITOR
SpeedStar HiColor	Tseng Labs ET4000	Follow "Configuring Your Monitor with Diamond GO/GO'95 Utility". Append the following line to the autoexec.bat file in your root directory. C:\STARUTIL\VMODE MONITOR
SpeedStar VGA/SVGA	Tseng Labs ET4000	Follow "Configuring Your Monitor with Diamond GO/GO'95 Utility". Append the following line to the autoexec.bat file in your root directory. C:\STARUTIL\VMODE MONITOR

### **1 Using Drivers with VxD support (recommended)**

- a) From within the Control Panel, click on the Display icon. You may also click on the right mouse button when the mouse pointer is positioned on your wallpaper.
- b) Select the *Settings* Tab.
- c) Select the *Change Display Type...* button.
- d) From the Adapter Type section, select the *Change* button.
- e) Select *Have Disk...*
- f) Choose to copy the manufacturer's files from your CD-ROM drive under the directory **X:\Drivers\Display\Diamond** where **X**= the CD-ROM drive (usually D or E)
- g) You should have a listing of files with INF extensions. Click *OK*. Select *SpeedStr.inf*. Select *OK* again since the Diamond directory is the default choice.
- h) Choose the Diamond driver that is listed to match your product. If there are other drivers listed, they may be standard drivers without the VxD support. Click *OK*.
- i) Files should begin to copy into Windows 95. However, you may receive a message stating that it cannot find a particular file and you need to insert the Windows 95 CD-ROM. Click *OK*

to bypass this message and type **X:\WIN95** (where **X** = your CD-ROM drive) and then click *OK*. This copies the proper Windows 95 files and the installation should continue without interruption.

- j) The Diamond driver should be listed in the Adapter Type section.
- k) To add refresh rate support for higher resolutions, select *Change* from the Monitor Type section.
- l) To show all the monitor manufacturers available, select *Show all devices*.
- m) Find your particular monitor manufacturer by scrolling within the *Manufacturers* section. Highlight your selection.
- n) Select your particular monitor model by scrolling within the *Models* section. Highlight your selection.
- o) Click *OK*.
- p) Select *Close* within the Change Display Type box.
- q) Select *Apply* for the changes to take effect.
- r) You will be prompted to restart Windows for your selection to take effect.

## 2 Configuring Your Monitor with Diamond GO/GO'95 Utility.

The following steps outline exactly how to configure Windows 95 for use with the SpeedStar Series.

- a) Run Windows 95. If you have not already have installed Windows 95, do so now.
- b) From within Windows 95, select 'SHUTDOWN' from the Start Menu. Select the 'Restart the computer in MS-DOS Mode' option.
- c) After the system restarts, you will be placed at a DOS prompt. It is now time to configure the GO/GO'95 utility for your monitor. Refer to your manual for details on how to install and use the GO/GO'95 utility.
- d) After you have setup your monitor with the DOS utility, you need to add the line to your autoexec.bat that is listed in the '**Necessary Steps to Get Correct Refresh Rates**' column as listed in the SpeedStar Series table.
- e) NOTE: If you installed the DOS utility into a different drive or sub-directory than the default choice, enter that path.
- f) Save the modified Autoexec.bat file and restart the system.

## C Viper VLB / PCI

### 1 Chipset Detection

Actual chipset of graphic accelerator: Weitek P9000  
Windows 95 detects graphic accelerator as: VGA

### 2 Using Drivers with VxD support (recommended)

- a) From within the Control Panel, click on the Display icon. You may also click on the right mouse button when the mouse pointer is positioned on your wallpaper.
- b) Select the *Settings* Tab.
- c) Select the *Change Display Type...* button.
- d) From the Adapter Type section, select the *Change* button.
- e) Select *Have Disk...*
- f) Choose to copy the manufacturer's files from your CD-ROM drive under the directory **X:\Drivers\Display\Diamond** where **X**= the CD-ROM drive (usually D or E)

- g) You should have a listing of files with INF extensions. Click *OK*. Select *OK* again.
- h) Choose the Diamond driver that is listed to match your product. If there are other drivers listed, they may be standard drivers without the VxD support. Click *OK*. The Diamond driver should be listed in the Adapter Type section.
- i) To add refresh rate support for higher resolutions, select *Change* from the Monitory Type section.
- j) To show all the monitor manufacturers available, select *Show all devices*.
- k) Find your particular monitor manufacturer by scrolling within the *Manufacturers* section. Highlight your selection.
- l) Select your particular monitor model by scrolling within the *Models* section. Highlight your selection.
- m) Click *OK*.
- n) Select *Close* within the Change Display Type box.
- o) Select *Apply* for the changes to take effect.
- p) You will be prompted to restart Windows for your selection to take effect.

### 3 Troubleshooting

If you encounter any problems using the Windows 95 driver, you may want to try the following troubleshooting steps:

- a) Ensure you have the latest BIOS for your Viper VLB or Viper PCI graphics accelerator.
- b) Ensure that you have the 'SET VIPERPATH=C:\VIPER' environment variable in your Autoexec.bat file. Also, make sure that the VIPER.INI can be found in this sub-directory.
- c) NOTE: The 'SET VIPERPATH=' variable may have a different drive and sub-directory if the Viper utilities were installed to another location.
- d) Check your Viper VLB or Viper PCI manual for other troubleshooting ideas.

## **D Viper Pro Video / Viper SE**

### 1 Chipset Detection

Actual chipset of graphic accelerator: Weitek P9100

### 2 Overview

Our engineering staff is currently working on Windows 95 drivers for the Viper Pro Video and the Viper SE accelerator cards. Drivers are expected shortly after the retail release of Windows 95. As soon as these drivers are completed and tested, Diamond will make these drivers available through our usual channels.



## **IV Troubleshooting Windows 95 Issues**

If you are having problems running Windows 95, consider the following troubleshooting ideas:

1. When installing Diamond utilities for one of our graphic, sound, or audio/telephony products, install to a directory using the standard MS-DOS naming convention. This means {Filename}.{Extension}, where Filename is 8 characters or less, and the extension is 3 characters or less.
2. Consult the back of your manual for your Diamond product for basic troubleshooting tips. Most of these tips are still true.
3. There has been some instances when vertical lines or other garbage appears on the monitor after running the GO'95 utility in the Autoexec.bat file. If you experience this problem, you can press the <ESC> key once (or another key) to clear this garbage. There is no ill-effects of this garbage.
4. Some of our graphic accelerators do not properly work when the Custom option is selected within the xMODE or GO'95 utility. If this is the case for the graphic accelerator you own, we recommend using one of the predefined monitors.