VideoLogic GrafixStar 560 for Windows 95
April 6, 1998

Contents

1. Introduction

This file contains installation instructions, late-breaking information, troubleshooting information, and notes on GrafixStar 560.

If you are reading this file outside of the interactive installation guide and want to install GrafixStar 560 manually, refer to section 2 below for complete instructions on how to do this.

2. Updates in this driver release

This section shows the changes in each driver release, up to this one.

Version 4.3.2

- Support for SmartTools II
- Improved performance
- Support for the Final Reality benchmark
- Fixes for problems with G Police, WipeOut and MageSlayer

3. Installing the GrafixStar 560 hardware

Introduction
This section explains how to install the GrafixStar 560 hardware.

Before you continue

Windows 95 build
Before you install the hardware, follow these instructions to find out which build of Windows 95 you are using, then follow the instructions for that version when installing the software:

    1.   Click the Start button, point to Settings and click Control Panel.

    2.   Double-click the System icon to open the System Properties Window.

    3.   Click the General tab. The build number is located in the System section, under the
    'Microsoft Windows 95' line.

Handling the card
Follow these guidelines to minimise the risk of electrostatic charges damaging the card:

- Keep the card in its protective packaging until you are ready to install it.
- Just before handling the card, touch the metal frame of your computer with the back of your Hand to discharge any static electricity which may have built up on you or your clothes.
- Hold the card by the adapter bracket or by its edges; do not touch the printed circuit board.
- Do not place the card on top of your computer or on any other metal surface.
- Make sure that the card is not accidentally touched by anyone else.
- Handle the card with care to avoid damage to the fragile electronic components mounted on the circuit board.

Installing the hardware

Warning: Always switch off your computer before removing the cover and observe the warnings specified in the manufacturer's documentation.

1. Switch off your computer, monitor, and any hardware devices such as printers connected to your computer. Leave the power cable connected to the power outlet so that your computer is grounded.

2. Disconnect your monitor cable from your computer.

3. Remove the computer's cover. You may need to refer to the documentation supplied with your computer for instructions on how to do this.

4. Remove your existing display card or disable your built-in graphics controller. Refer to the documentation supplied with your computer for instructions on how to disable a built-in graphics controller.

5. Locate an empty PCI or AGP bus expansion slot and remove the slot cover. Keep the screw, you will need it later to secure the card.

6. Touch the bare metal chassis of your computer with the back of your hand to discharge any static that may have built up on you or your clothes.

7. Align GrafixStar 560 with the slot you have chosen. Firmly press the card into the slot. You will need to use some pressure to push the card into position, but do not use excessive force.

8. Secure GrafixStar 560 using the screw that you removed previously.

9. Replace the cover of your computer.

10. Connect the monitor cable to GrafixStar 560. All cables connected to GrafixStar 560 should be properly shielded and comply with radio frequency interference standards.

11. Switch on your computer and your computer monitor. You are now ready to install the software.

4. Installing the GrafixStar 560 drivers from the VideoLogic CD-ROM

Introduction

This section explains how to install the GrafixStar 560 software from the VideoLogic Software Library CD-ROM.

We strongly recommend that you use the interactive installation guide on the VideoLogic CD-ROM to install the GrafixStar 560 drivers, as it is quicker, easier and more comprehensive than using Windows Plug and Play. However, if you want to install GrafixStar 560 using Plug and Play, follow the instructions below.

Software installation for Windows 95 build 4.00.950 or 4.00.950a

1. When your computer has restarted, a dialog box is displayed saying that Windows has found new hardware. Select Driver from Disk provided by Hardware Manufacturer, and click OK.

2. Insert the VideoLogic Software Library CD-ROM into your CD-ROM drive. If the interactive installation guide runs at this point, close the interactive installation guide's window.

3. Browse to the folder \gs560\win95 on the CD-ROM. Click GrafixStar 560 GrafixMAX, and click OK.

4. At the Install From Disk dialog box click OK. The Windows 95 drivers are copied across from the CD-ROM.

5. A message is displayed notifying you of the change to your system's settings, and asking whether you want to restart the computer. Click Yes.

    When your computer has restarted, GrafixStar 560 is ready to use.

Software installation for Windows 95 build 4.00.950b (otherwise known as OSR2)

1. When your computer has restarted, the Update Device Driver Wizard is displayed, saying that a PCI VGA-compatible Display Adapter has been detected and asking whether you want Windows to search for the drivers. Insert the VideoLogic Software Library CD-ROM into your CD-ROM drive, and click Next. (If the interactive installation guide runs at this point, close the interactive installation guide's window).

2. A message is displayed saying that Windows has located the following driver for the device: Standard PCI Graphics Adapter (VGA). Click Other Locations and browse to the folder \gs560\win95 on the CD-ROM. After browsing, click OK.

3. A message is displayed saying that Windows has found the drivers for GrafixStar 560 GrafixMAX. Click Finish to install the drivers.

4. Windows prompts you to insert the GrafixStar 560 GrafixMAX disk. Click OK and browse to the folder \gs560\win95 on the CD-ROM. After browsing click OK.

5. When all files have been copied click OK to restart your computer.

    When your computer has restarted, GrafixStar 560 is ready to use.

5. Upgrading the drivers

From time to time, VideoLogic may issue upgrades to drivers. The latest drivers are always available on our web site at http://www.videologic.com/, and our ftp site at ftp://ftp.videologic.com/. The upgrades come with their own installation instructions, and there are installation instructions in the support section of the web site.

6. The GrafixStar 560 drivers and DirectX

Introduction
This section describes the display modes available with overlay video acceleration, and how GrafixStar 560 interacts with DirectDraw.

Display modes with video acceleration
GrafixStar 560 uses an intelligent graphics engine which provides true-colour video playback even when the display is set to 256 colours. This means that you don't have to sacrifice speed and functionality by being in a true-colour display mode; instead, you can play video clips in true-colour while using a 256 or 65k colour mode.

The following display modes are accelerated for video playback:

Display size	Colors	Refresh rate (Hz)
640 x 480	256	60 - 150
800 x 600	256	56 - 150
1024 x 768	256	60 - 120
1152 x 864	256	60 - 120
1280 x 960	256	60 - 100
1280 x 1024	256	60 - 90
1600 x 1200	256	60 - 65
640 x 480	65,536	60 - 150
800 x 600	65,536	56 - 120
1024 x 768	65,536	60 - 75
1152 x 864	65,536	60
640 x 480	16.7m	60 - 120
800 x 600	16.7m	56 - 85

All other modes display AVI files using software only, which gives poorer quality playback.

Using games with DirectX
The GrafixStar 560 display drivers for Windows 95 are DirectX compatible.

7. Troubleshooting

Introduction
This section describes problems you may encounter when running GrafixStar 560.

Installation

The PC locks up when clicking Cancel at the Update Device Driver Wizard
When you install the GrafixStar 560 AGP card in your system, it will detect a new graphics card and display the Update Device Driver Wizard. Clicking Cancel at this point might lock up your PC. In this case, please follow the installation instructions in the user guide or in section 4 of this readme

The Windows 95 Device Manager shows a resource conflict between GrafixStar 560 AGP and a standard PCI-to-PCI bridge.
This happens due to a problem some versions of Windows 95 have with AGP graphics cards. Version 4.00.950b of Windows 95 shows up a resource conflict of a PCI-to-PCI bridge with the GrafixStar 560 card, even though no conflict exists. Your GrafixStar 560 AGP card will not be affected by this conflict and it cannot be resolved by trying to change the resources.

Monitors

Corrupt or blank display
Windows 95 does not restrict the generic SVGA monitor settings to a given set of refresh rates, so allows any refresh rate to be selected. If you have a standard monitor selected, there is therefore a possibility that you could restart your system with a refresh rate that your monitor does not support. This usually results in a corrupted or black display in Windows 95. To rectify this problem, restart Windows 95, holding down the CTRL key on your keyboard. This starts Windows 95 in the lowest possible refresh rate for the resolution selected.

Connectivity

Feature connector
The feature connector on GrafixStar 560 PCI is supported in the following display modes: 640x480 pixels with 16 colors, or 800x600 pixels with 16 colors.

The feature connector on GrafixStar 560 AGP is not supported.

Follow the steps below to use the feature connector on GrafixStar 560 PCI:

1. Click the Start button, point to Settings, and click Control Panel

2. Double-click the Display icon, then click the Settings tab.

3. Change the display mode to either 640x460 pixels with 16 colors, or 800x600 pixels with 16 colors.

4. Reboot your system and go into your system's BIOS setup (please refer to the PC's documentation on how to do this). In the BIOS setup, enable "Palette Snooping" or

"VGA Snooping".

5.   Save the changes and reboot your system.

Drivers

QuickTime for Windows Version 2.X
If you experience problems when viewing QuickTime movies, run the QuickTime Control Panel from the Windows 95 Control Panel, and follow the steps below:

1.   Run the QuickTime Control Panel, click the More button and click the Video tab.

2.   From within the Optimization section, the Draw Method setting will be set to Video Hardware. Change this to Video Driver.

3.   Close the QuickTime Control Panel.

Monitor screen centering
Some advanced monitors create a display setting by detecting the horizontal line frequency, and this may change the size and positioning of the Windows 95 screen when task switching from a DOS full-screen session to a Windows 95 session. This problem occurs when the monitor is at the borderline between two settings. To remedy this, use the controls on your monitor to adjust its screen settings.

Laplink for Windows 95
When using Laplink for Windows 95 and the Client system has a GrafixStar 560 installed, the Client system might lock-up when the host is connected.

This problem can be fixed by disabling bitmap caching in the graphics driver. To disable bitmap caching, add the following entry to the bottom of your SYSTEM.INI file:

[VideoLogic SVGA]
TuningControl=27
RealizeControl=16

Save the changes and restart Windows 95.

Saving Excel charts to HTML
When saving certain Excel bar charts to HTML, parts of the chart can lose their color. To work-around this problem, add the following entry to the bottom of your SYSTEM.INI file:

[VideoLogic SVGA]
TuningControl=13

Save the changes and restart Windows 95.

VideoLogic