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Introduction

Thank you for choosing GrafixStar 650™.

Based on the 128-bit Permedia II graphics controller from 3DLabs®, GrafixStar 650 is an AGP or PCI solution that gives you high-performance 2D and 3D acceleration for Windows NT, 95 and 98.

GrafixStar 650's 3D features make it suited to a wide range of 3D applications. Its full OpenGL implementation means your OpenGL-based graphics packages will process images more quickly and accurately, while your OpenGL games will run more smoothly and with higher frame rates, making your gameplay more responsive and involving. Couple this with its 8MB of SGRAM to accelerate 3D rendering, and whether you want to design in 3D, watch 3D, or play OpenGL or Direct3D games, GrafixStar 650 can handle it with ease.

GrafixStar 650 also has excellent 2D performance. Here, the 8MB SGRAM provides a set of display modes previously available only on high-end graphics workstations, giving you larger, clearer desktops and great colour for your spreadsheets, web pages, documents and graphics.

The software package includes the NewSoft multimedia suite, with applications for video editing, processing scanned images and video stills, and an on-screen CD player.

The VideoLogic CD-ROM also contains Direct3D game demos, the latest release of Microsoft's Internet Explorer, and utilities to help improve your productivity.

This guide takes you through installing GrafixStar 650, lists the card's display modes, and offers troubleshooting advice and technical support. Please read the rest of this introduction, then follow the installation instructions to install the card.

Latest product information

The readme files listed below describe how to use the 3D Labs tab that is added to your Control Panel when installing GrafixStar 650, and give any late-breaking information that you may need to know.

- Windows 95/98 \gs650\win9x\readme.doc
- Windows NT 4.0 \gs650\winnt\readme.doc

Driver locations

In case you need quick access to the drivers when installing the card, the Windows drivers are in the following folders:

- Windows 95/98 \gs650\win9x\
• Windows NT 4.0 \gs650\winnt\

System requirements

To run GrafixStar 650 you need an IBM or fully compatible 486 PC or above which complies with the PCI or AGP local bus specification and which has a spare bus slot.

Handling GrafixStar 650

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

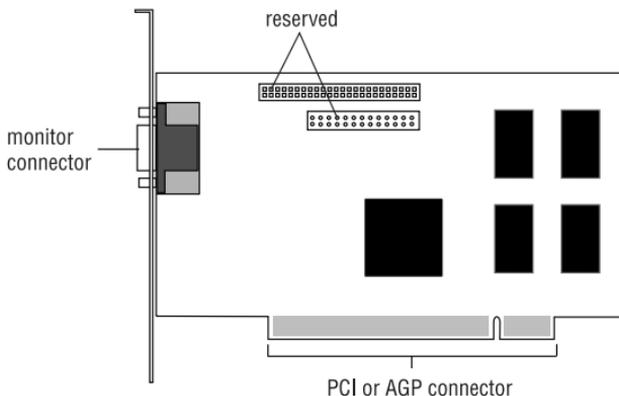
- Keep the card in its protective packaging until you are ready to install it.
- Just before handling the card, touch the metal frame of your PC with the back of your hand to discharge any static electricity which may have built up on you or your clothes.
- Hold the card by the adapter bracket or by its edges; do not touch the 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 components on the circuit board.

Installing GrafixStar 650

Installing the hardware

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

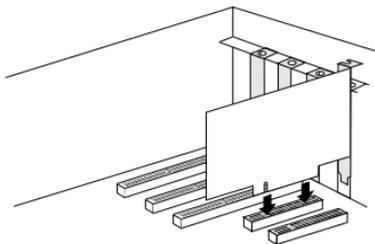
The following diagram shows the connectors on the card.



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.

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2. Disconnect your monitor cable from your computer.
3. Remove the computer's cover.
4. Remove your existing display card or disable your built-in graphics controller. You may need to refer your computer's documentation for instructions on how to do this.
5. Locate an empty PCI or AGP expansion slot, depending on the card type you have, 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 650 with the slot you have chosen. Firmly press the card into the slot, as shown in the diagram below. You will need to use some pressure to push the card into position, but do not use excessive force.



8. Secure GrafixStar 650 using the screw that you removed previously.
9. Replace the cover of your computer.
10. Connect the monitor cable to GrafixStar 650.
11. Switch on your computer and your computer monitor.
12. You are now ready to install the software, as explained on the next page.

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Installing the Windows 95 or 98 software

We recommend that you install the Windows 95 or 98 software with the VideoLogic Installer as described below for an easy, automated installation. If you have more experience and prefer to use Windows Plug and Play then continue with it now, or for more detailed instructions, refer to the readme file on the CD-ROM as listed on page 3.

To install the software with the VideoLogic Installer:

1. When your computer has restarted, a window is displayed saying that Windows has found a new device, and asks whether you want Windows to search for the drivers. Click Cancel.
2. A message is displayed saying that the drivers are not installed. Click OK.
3. When your desktop is available, insert the VideoLogic CD-ROM into your CD-ROM drive. If it doesn't auto-play, double-click My Computer on your desktop, then double-click the CD-ROM icon.
4. Follow the on-screen instructions to install the GrafixStar 650 software.
When you have completed the on-screen instructions, GrafixStar 650 is ready to use.

Installing the Windows NT software

1. When your computer has restarted, the Display Properties page is displayed. Insert the VideoLogic CD-ROM into your CD-ROM drive.
2. At the Display Properties page, click Display Type.
3. At the Display Type dialog box, under Adapter Type, click Change.
4. At the Change Display dialog box, click Have Disk.
5. At the Install from Disk dialog box, browse to the folder \gs650\winnt\ on your CD-ROM drive. After browsing, click OK.
6. At the Change Display dialog box, select GrafixStar 650 from the list, and click OK.
7. At the Third Party Driver dialog box click Yes to proceed. The drivers are copied across.

8. When the drivers have been copied, at the Installing Driver dialog box, click OK.
9. Close the Display Type dialog box, and close the Display Properties page.
10. The System Settings Change dialog box is displayed. Click Yes to restart your computer.

When your computer has restarted, GrafixStar 650 is ready to use.

If you want to fine-tune GrafixStar 650's performance, you can use the 3Dlabs tab which is added to your Display Properties panel. For more information, refer to the readme on the CD-ROM as listed on page 3.

Upgrading the drivers

The latest drivers are on the software pages of our web site at <http://www.videologic.com/>, and our ftp site at <ftp://ftp.videologic.com/>.

Instructions for downloading and upgrading the drivers are available in the support pages of the web site, and in the readme on the CD-ROM as listed on page 3.

Display modes

The following tables show GrafixStar 650's display modes.

| WINDOWS 95/98 DISPLAY MODES | | |
|------------------------------------|----------------|-------------------------|
| Resolution | Colours | Max Refresh Rate |
| 1600 x 1200 | 16.7m | 52 |
| | 65,536 | 100 |
| | 256 | 100 |
| 1280 x 1024 | 16.7m | 75 |
| | 65,536 | 100 |
| | 256 | 100 |
| 1152 x 864 | 16.7m | 100 |
| | 65,536 | 100 |
| | 256 | 100 |
| 1024 x 768 | 16.7m | 100 |
| | 65,536 | 100 |
| | 256 | 100 |
| 800 x 600 | 16.7m | 100 |
| | 65,536 | 100 |
| | 256 | 100 |
| 640 x 480 | 16.7 m | 100 |
| | 65,536 | 100 |
| | 256 | 100 |

| WINDOWS NT DISPLAY MODES | | | |
|---------------------------------|----------------|-------------------------|-------------|
| Resolution | Colours | Max Refresh Rate | |
| | | DDC | VESA |
| 1600 x 1200 | 16.7m | 60 | - |
| | 65,536 | 85 | 85 |
| | 32,768 | 85 | 85 |
| | 256 | 85 | 85 |
| 1280 x 1024 | 16.7m | 75 | 75 |
| | 65,536 | 85 | 100 |
| | 32,768 | 85 | 100 |
| | 256 | 85 | 100 |
| 1280 x 960 | 16.7m | - | 75 |
| | 65,536 | - | 100 |
| | 32,768 | - | 100 |
| | 256 | - | 100 |
| 1152 x 864 | 16.7m | - | 100 |
| | 65,536 | - | 100 |
| | 32,768 | - | 100 |
| | 256 | - | 100 |
| 1024 x 768 | 16.7m | 85 | 100 |
| | 65,536 | 85 | 100 |
| | 32,768 | 85 | 100 |
| | 256 | 85 | 100 |
| 800 x 600 | 16.7m | 85 | 100 |
| | 65,536 | 85 | 100 |
| | 32,768 | 85 | 100 |
| | 256 | 85 | 100 |
| 640 x 480 | 16.7 m | 85 | 100 |
| | 65,536 | 85 | 100 |
| | 32,768 | 85 | 100 |
| | 256 | 85 | 100 |

Troubleshooting

This chapter provides solutions to problems that may happen when installing and using GrafixStar 650. For more detailed information refer to the readme file as listed below:

- Windows 95/98 \gs650\win9x\readme.doc
- Windows NT 4.0 \gs650\winnt\readme.doc

Problem: After installing GrafixStar 650, my computer does not start.

Solution: Your old graphics card or onboard graphics may still be active.

Remove the old card or disable the onboard graphics, referring to your computer's documentation for instructions on how to do this.

Solution: Your GrafixStar 650 card may not be seated properly in your computer.

Check that the connectors at the bottom of the card are fitted properly into the bus slot. In some cases, you may need to move the card into another slot.

Problem: My screen is blank (black) when Windows has loaded.

Solution: Your system may not be set to take full advantage of graphics acceleration.

Restart your computer in Safe Mode. Start Windows Explorer, and right-click on 'My Computer'. In the context-sensitive menu, click Properties, then Performance, then Graphics, and set the bar to Full.

Problem: My screen is blank (black), flickering, or corrupted.

Solution: The refresh rate may be too high for your monitor.

Restart your computer (if you can't see the screen, use ALT+F4, DOWN ARROW, ENTER), and when the Starting Windows message is displayed, press the CTRL key, keeping it pressed until Windows has restarted. This selects the lowest refresh rate for your monitor's colour and desktop settings. You can now choose a suitable refresh rate in Display Properties by clicking Start, pointing to Settings, clicking Control Panel, then double-clicking the Display icon.

Technical support

If you have problems while installing or using GrafixStar 650, try running through these steps:

1. Go through the troubleshooting advice on page 10 of this installation guide.
2. Visit the support pages on our web site at <http://www.videologic.com/>.
3. Download the latest drivers from the software pages of our web site.
4. Contact us online using one of the following services:
 - e-mail (USA, Canada & Latin America): support_usa@videologic.com
 - e-mail (German-speaking countries): support_gmbh@videologic.com
 - e-mail (UK & all other countries): support@videologic.com
 - bulletin board (German-speaking countries): +49 (0)6103 936 726
5. Contact your original supplier for technical help.
6. Call our customer support group.

| | |
|--------|--------------------------|
| ISDN | X.75, V.120, V.110 |
| Analog | V34+/X2 Host/V.90, 8-N-1 |

Try to have details to hand such as your PC's make and model, other cards installed, software you are running, and how to recreate the problem.

USA, Canada & Latin America: +1 888 618 3579

Germany: +49 (0)6103 934714

UK & all other countries: +44 (0)1923 277477

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