

## Contents

Introduction .....	2
Installing GrafixStar 450 Pro .....	4
Technical details .....	7
Troubleshooting .....	9
Technical support .....	10
Index .....	11

## Introduction

GrafixStar 450 Pro, VideoLogic's EDO DRAM 64-bit graphics card, combines 2D graphics, multimedia acceleration and 3D rendering in one versatile package.

The ViRGE/DX processor gives GrafixStar 450 Pro a wide range of refresh rates, resolutions and color depths. It also offers advanced 3D features such as flat and Gouraud shading, perspective correction, bi-linear and tri-linear texture filtering, MIP mapping, depth cueing, fogging, alpha blending, video texture mapping, and z-buffering. And, you can upgrade from 2MB EDO DRAM to 4MB, giving you even more display modes.

The package is made complete with the full NewSoft™ suite of multimedia software, comprising applications for video editing, processing scanned images and video stills, and an on-screen CD player.

## Before you continue

### System requirements

To run GrafixStar 450 Pro you need an IBM or fully compatible 486 PC or above which complies with the PCI local bus specification and which has a spare PCI bus slot.

### Latest product information

Make sure you read the latest information in the readme file on the CD-ROM as listed below:

- Windows 95                                \gs450pro\win95\readme.doc
- Other operating systems                \readme.txt

### **The interactive installation guide for Windows 95**

The interactive installation guide on the VideoLogic CD-ROM ensures that the correct drivers are installed and gives you access to other software. It replaces Windows Plug and Play, which installs the drivers and then leaves you to install other software. You can use either method to install the software, but we strongly recommend using the interactive installation guide, as described on page 6.

### **Manually installing Windows 95 software**

If you want to install the Windows 95 software using Windows Plug and Play, refer to the Windows 95 readme file.

### **Handling GrafixStar 450 Pro**

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 450 Pro

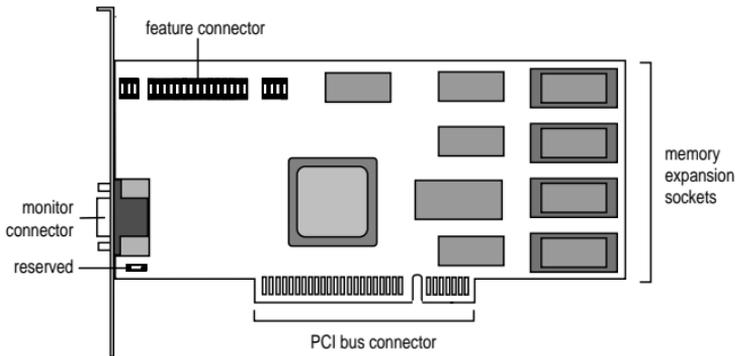
## Installing the hardware

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

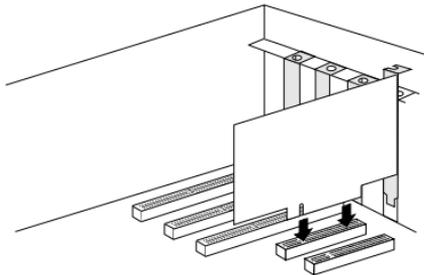
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The diagram below shows the connectors on the card.



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.
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 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 450 Pro 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 450 Pro using the screw that you removed previously.
9. Replace the cover of your computer.
10. Connect the monitor cable to GrafixStar 450 Pro. All cables connected to GrafixStar 450 Pro 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, as described on page 6.

## Installing the Windows 95 software

### Interactive installation guide

We strongly recommend that you install the Windows 95 software with the interactive installation guide on the CD-ROM, as it is quicker, easier, and more comprehensive than Windows Plug and Play. If you want to install the software using Windows Plug and Play, refer to the readme file on the VideoLogic CD-ROM as listed on page 2.

To install the software with the interactive installation guide:

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 Windows is set up to automatically run CD-ROMs, the interactive installation guide will auto-run. If not, run the file `instaler.exe` in the root directory of the CD-ROM.
4. Follow the on-screen instructions to install the GrafixStar 450 Pro software.

When you have completed the on-screen instructions, GrafixStar 450 Pro is ready to use.

### Other operating systems

There are drivers supplied on the disk for operating systems other than Windows 95. To install them, follow the instructions in the file `readme.txt` in the root directory of the VideoLogic CD-ROM.

## Technical details

### Display modes

The display modes supported by GrafixStar 450 Pro are shown in the table below.

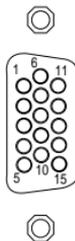
<b>WINDOWS 95 DISPLAY MODES</b>			
<b>Resolution</b>	<b>Colors</b>	<b>2 MB Refresh rates (Hz)</b>	<b>4 MB Refresh rates</b>
640 x 480	16.7 m	60 - 85	60 - 85
	65,536	60 - 85	60 - 85
	256	60 - 85	60 - 85
800 x 600	16.7 m	60 - 85	60 - 85
	65,536	60 - 85	60 - 85
	256	60 - 85	60 - 85
1024 x 768	16.7 m	–	43i - 85
	65,536	43i - 85	43i - 85
	256	43i - 85	43i - 85
1152 x 864	256	60	60
1280 x 1024	65,536	–	43i - 85
	256	43i - 85	43i - 85
1600 x 1200	256	48i - 60	48i - 60

# GrafixStar 450 Pro User Guide

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## Monitor connector

GrafixStar 450 Pro uses a standard 15-way high density 'D' socket. If your monitor uses a different connector your monitor dealer can supply an adapter. The pin-outs are as follows:



PIN	SIGNAL	PIN	SIGNAL	PIN	SIGNAL
1	red video	6	red return	11	unused
2	green video	7	green return	12	DDC2B-data
3	blue video	8	blue return	13	horizontal
4	reserved	9	unused	14	vertical
5	ground	10	sync return	15	DDC2B-clock

## Power and temperature specifications

GrafixStar 450 Pro operates at a nominal power rating of 6.5 watts, at temperatures between 10°C (50°F) and 50°C (122°F).

### Troubleshooting

This chapter provides solutions to the problems that can happen when installing and using GrafixStar 450 Pro. For more detailed information refer to the readme file as listed on page 2.

**Problem:** After installing GrafixStar 450 Pro, my PC does not start.

**Solution:** Your old graphics controller or graphics card is still active. Remove the old card or disable your graphics controller, referring to your PC's documentation for instructions on how to do this.

Your GrafixStar 450 Pro card is not seated properly in your PC. Check that the connectors at the bottom of the card are fitted properly into the PCI slot. In some cases, you may need to move the card into another slot.

**Problem:** My screen is blank (black) when Windows 95 has loaded.

**Solution:** The Hardware Acceleration bar in the Graphics section of the System Properties Performance page has been set to None, and must be changed to Full.

Restart your PC in Safe Mode, then display your 'My Computer' group, point at the monitor icon at the top left corner of the group and click the right-hand mouse button to display the context-sensitive menu. Choose Properties, then Performance, then Graphics, and then set the bar to Full.

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

**Solution:** You have the wrong monitor type selected in Display Properties, and it cannot support the selected refresh rate. To select the correct monitor type, shut down Windows 95, choosing Restart the computer. (If you can't see the screen, use ALT+F4, DOWN ARROW, ENTER.) When the 'Starting Windows 95' message appears, press the F8 key and choose Safe Mode. When Windows 95 has started, choose a different monitor in Display Properties, or choose a lower refresh rate.

## Technical support

If you have any problems while installing or using GrafixStar 450 Pro, go through these steps.

1. Check the troubleshooting information in the relevant file on the VideoLogic CD-ROM, as listed on page 2.
2. Visit our technical support web pages at <http://www.videologic.com>
3. Download the latest drivers from our ftp site at <ftp://ftp.videologic.com>
4. Contact us online using one of the following services:
  - e-mail (USA, Canada & Latin America): [support\\_usa@videologic.com](mailto:support_usa@videologic.com)
  - e-mail (Germany): [support\\_gmbh@videologic.com](mailto:support_gmbh@videologic.com)
  - e-mail (UK & all other countries): [support@videologic.com](mailto:support@videologic.com)
  - bulletin board (USA, Canada & Latin America): +1 650 875 7748 (to 28.8, 8-N-1)
  - bulletin board (Germany): +49 (0)61 03 37 12 57 (to 28.8, 8-N-1)
5. Contact your original supplier for technical help.
6. Call our customer support group. 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: +1 650 875 0606

Germany: +49 (0)61 03 93 47 14

UK & all other countries: +44 (0)1923 271300

## The VideoLogic FaxBack service

The FaxBack service provides a listing of VideoLogic products, with summary descriptions and reviews. When you use this service you will be asked to provide your fax number.

If calling from outside the USA, Canada and Latin America your number is 011, your country code, then your fax number. Use the # key when prompted to press the pound sign key.

USA, Canada & Latin America: 800 203 8587

Outside USA, Canada & Latin America: +1 800 203 8587

## Index

### B

bulletin boards	10
bus requirement	2

### C

contacts	10
customer support group	10

### D

display modes	7
---------------	---

### E

e-mail addresses	10
------------------	----

### F

FaxBack service	10
-----------------	----

### G

GrafixStar 450 Pro	
expansion slot	5
handling	3
installing	4
system requirements	2

### I

installation	
hardware	4
readme files	6
software	6
interactive installation guide	2, 6
Internet	10

### M

monitor connector pin-outs	8
----------------------------	---

### R

readme files	6
--------------	---

### S

software installation	6
support	10
system requirements	2

### T

technical support	10
troubleshooting	9

### W

world wide web	10
----------------	----