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## Introduction

Based on the 128 bit Tseng Labs ET6100 graphics processor, and using the latest Multibank DRAM (MDRAM), GrafixStar 600 Pro delivers lightning-fast acceleration for Windows graphics and DOS games.

Using the ActiveMovie software, GrafixStar 600 Pro provides playback for any MPEG 1 video from any source including the Internet and VideoCD. MPEG movies can be played in a scalable or full-screen window on Pentium class PCs without extra MPEG hardware.

The package is made complete with SmartTools, a suite of programs that gives you complete control of your Windows desktop, and the NewSoft 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 600 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                                \gs600pro\win95\disk1\readme.doc
- Windows NT                                \gs600pro\winnt\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 600 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 600 Pro

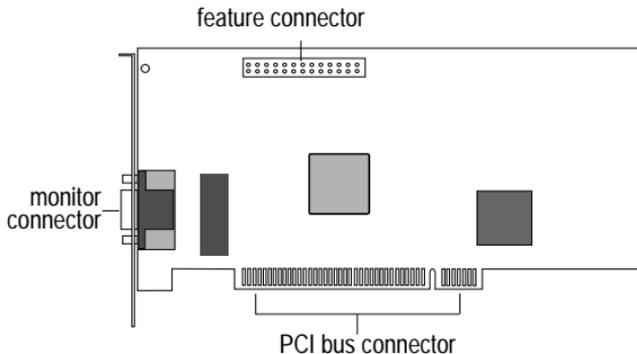
## Installing the hardware

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

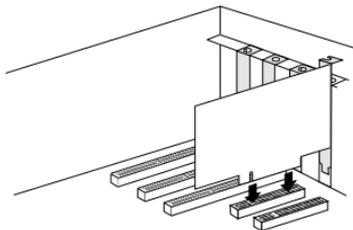
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The following diagram shows the connectors on the card.



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.
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 600 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 600 Pro using the screw that you removed previously.
9. Replace the cover of your computer.
10. Connect the monitor cable to GrafixStar 600 Pro.
11. Switch on your computer and your computer monitor.
12. When your computer has restarted, you are ready to install the GrafixStar software.

## 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 600 Pro software.

When you have completed the on-screen instructions, GrafixStar 600 Pro 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 `\\gs600pro\\winnt\` on your CD-ROM drive. After browsing, click OK.

6. At the Change Display dialog box, select GrafixStar 600 Pro 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 600 Pro is ready to use.

### Installing software for other operating systems

There are drivers for other operating systems on the CD-ROM, such as OS/2 and AutoDesk AutoCAD. To install them, read the instructions in the file \readme.txt on the CD-ROM.

### Upgrading the drivers

#### Instructions on the World Wide Web

The latest drivers are on the software pages of our web site at <http://www.videologic.com> , and through ftp at <ftp://ftp.videologic.com>. Instructions for downloading and upgrading the drivers are available through the technical support pages of the web site.

#### Instructions in the readme

If you don't have access to the World Wide Web or would simply prefer to use the readme file, upgrade instructions are available in the readme file on the VideoLogic CD-ROM as listed below:

- Windows 95                                \gs600pro\win95\disk1\readme.doc
- Windows NT                                \gs600pro\winnt\readme.doc
- Other operating systems                \readme.txt

### SmartTools for Windows 95

The SmartTools software is a set of applications that enables you to get the most out of the powerful capabilities of your graphics card, giving you more control over the appearance and behavior of your Windows desktop.

The instructions in this section give you an overview of how SmartTools work. For more detailed instructions, refer to the online help supplied with SmartTools.

If you want to remove SmartTools at any time, refer to the readme as listed on page 2.

There are three Smart applications: SmartTools, SmartDisplay and SmartDesktop.

#### SmartTools

SmartTools enables you to create toolbars for quicker access to your applications and documents.

With SmartTools you can:

- Use toolbars for the other Smart applications, and customize these toolbars to suit your needs.
- Create toolbars for other applications, adding buttons for the programs, documents and files that you use most often.
- Assign hotkeys for the commands that you use most often.

#### SmartDisplay

SmartDisplay makes it easier and quicker for you to set up the properties for your monitor.

With SmartDisplay you can:

- Find the ideal display settings for the kind of work you are doing, helped by the SmartDisplay Wizard, which guides you through a step-by-step procedure.
- Select the display size, color palette, refresh rate, desktop size, connectivity and monitor alignment for your display, using a SmartDisplay set-up procedure for advanced users.

## **SmartDesktop**

SmartDesktop controls the size and behavior of your desktop.

With SmartDesktop you can:

- Set a virtual desktop that is larger than the display size.
- Control the way you move around the desktop and reach an off-screen virtual desktop portion.
- Change the display size at the touch of a button, enabling you to zoom in and zoom out while you are working.

## **Using SmartTools**

With SmartTools, you can customize the toolbars for the other Smart applications and create toolbars of your own.

### **Starting SmartTools**

To start SmartTools, click the Start button, point to Programs, then VideoLogic SmartTools, then SmartTools, or click the SmartTools shortcut icon on the Windows 95 desktop.

The SmartTools window contains three pages, Toolbar Properties, Customize Toolbars and Customize Hotkeys.

### **Toolbar properties**

With Toolbar Properties selected, you can:

- Open and close existing toolbars by checking and unchecking them.
- Set the properties (Name, On Top, Tool Tips, Status Bar and Lock) for each toolbar.

## Customize Toolbars

With Customize Toolbars selected, you can:

- Create new toolbars and add them to the list of toolbars on the Toolbar Properties page by dragging applications from the Applications list onto the desktop, or by dragging one of the buttons in the commands list onto the desktop.
- Add buttons to toolbars by dragging them from the Commands list onto the toolbar, move buttons by holding down the SHIFT key and dragging them along the toolbar, or remove buttons by holding down the SHIFT key and dragging them off the toolbar.
- Add buttons for other applications to the Other Apps list and set properties for these buttons.

## Assigning hotkeys

With Customize Hotkeys selected, you can assign hotkey combinations to the commands you use most often, using combinations of SHIFT, CTRL and ALT, plus the other keys on the keyboard.

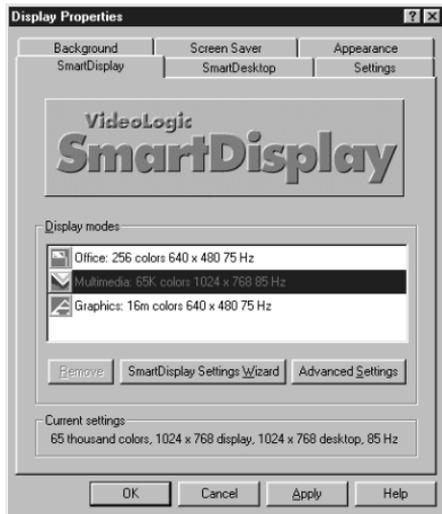
## Using SmartDisplay

SmartDisplay is an application that enables you to select, customize and create display modes for your monitor. If you have never set a display mode before, or if you need help in choosing your settings, you should use the SmartDisplay Settings Wizard. If you are familiar with setting display modes, you should use the Advanced Settings button.

## Starting SmartDisplay

1. Select the Display Properties Control Panel either by right-clicking on the Windows desktop and choosing Properties from the menu, or by clicking the Start button and pointing at Settings, then Control Panel, then double-clicking Display.

2. Click the SmartDisplay tab. The following window appears:



## Setting display modes using the Wizard

The Wizard takes you through a step-by-step procedure for setting up a display mode.

To use the Wizard:

1. Click the SmartDisplay page on the Display Properties window.
2. Click the display mode you want to modify from the Display Modes list.
3. Click the SmartDisplay Settings Wizard button.
4. Follow the instructions given by the Wizard.

### Setting display modes using the Advanced Settings button

This procedure enables you to choose the settings for your display mode. You should only use it if you are familiar with setting display modes.

To set a display mode:

1. Click the SmartDisplay page on the Display Properties window.
2. Click the display mode you want to modify from the Display Modes list.
3. Click the Advanced Settings button.

This takes you to the SmartDisplay Advanced Settings window. This window has five pages:

- Display for setting the display size
- Desktop for setting the desktop size
- Connectivity for the type of connection to multimedia option cards
- Screen for centering the display on your monitor
- Properties for creating and naming display modes

### Using SmartDesktop

SmartDesktop is an application which controls the appearance and behavior of your desktop. You can use SmartDesktop to set a virtual desktop, where the desktop size is larger than the display size, and you can change the display size at the touch of a button, enabling you to zoom in and zoom out while you are working.

You can use the SmartDesktop Properties page to set properties which control the way SmartDesktop works.

## The SmartDesktop Display Properties page

The SmartDesktop Display Properties page provides you with an alternative way of setting SmartDesktop's characteristics.

To open the Display Properties page, click the Display Properties Control Panel and click the SmartDesktop tab.

The following page appears:



By setting Schemes, you can save different combinations of SmartDesktop settings.

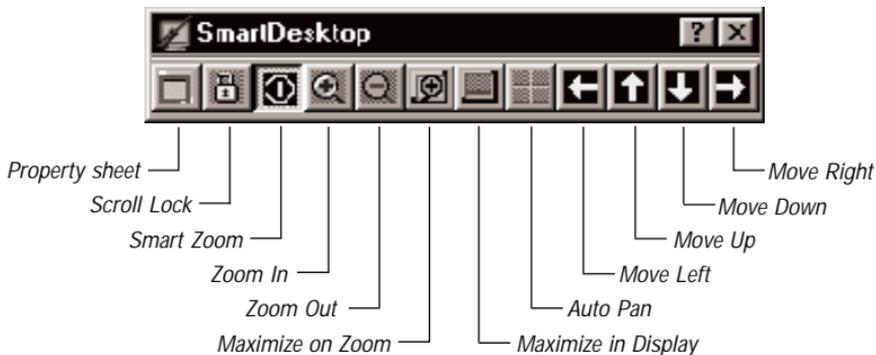
### The SmartDesktop toolbar

Using SmartTools, you can create a toolbar for running SmartDesktop.

To create a SmartDesktop toolbar:

1. Start SmartTools.
2. Click the Customize Toolbars tab.
3. Click SmartDesktop in the applications list and drag it onto the desktop.

The SmartDesktop toolbar appears as follows:



**Property Sheet** accesses the SmartDesktop Display Properties page.

**Scroll Lock** disables scrolling functions. This is useful if you are using a virtual desktop and you want to work on a particular area of the desktop without accidentally moving to other areas.

When you have **Smart Zoom** selected, you can use all the virtual desktop functions: when you zoom in or zoom out with Smart Zoom selected, only the display size changes; the desktop size stays the same. You can also use the functions such as Scroll Lock, Auto Pan, Maximize on Zoom and Maximize on Display to control the way your desktop behaves. If Smart Zoom is not selected, you can only use Zoom In and Zoom Out.

**Zoom In** and **Zoom Out** are used to change the size of your display. You can keep clicking the Zoom In button until the display size reaches the smallest size available (640 x 480). You can keep clicking the Zoom Out button until the display size reaches the largest size available (this is set using SmartDisplay).

You can also use the Zoom Display Fully In and Zoom Display Fully Out functions to zoom directly to the smallest and largest display sizes for your monitor. These functions are available as hot keys and menu items.

When **Maximize on Zoom** is selected, all maximized windows fit the new display size when you zoom in or zoom out.

When **Maximize in Display** is selected, maximized windows fit the display size. When this is not selected, maximized windows fit the desktop size.

If you have **Auto Pan** enabled, and you switch to a window which is currently off-screen (using ALT+TAB, or using the taskbar), the screen scrolls automatically to the window you selected.

The **Move Up**, **Move Down**, **Move Left** and **Move Right** buttons on the toolbar move to the parts of the desktop which are currently off-screen (when the desktop size is larger than the display size). You can also move to these areas using the mouse.

## Technical details

### Display modes

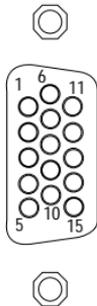
The display modes supported by GrafixStar 600 Pro are shown in the table below. If you have the feature connector enabled, the number of display modes available may be reduced.

WINDOWS 95 DISPLAY MODES			
Resolution	Colors	2MB* Refresh Rate (Hz)	4MB* Refresh Rate
640 x 480	16.7m	60 – 200	60 – 200
	65,536	60 – 200	60 – 200
	256	60 – 120	60 – 200
800 x 600	16.7m	56 – 100	56 – 100
	65,536	56 – 150	56 – 150
	256	56 – 150	56 – 150
1024 x 768	16.7m	-	43i – 85
	65,536	43i – 100	43i – 100
	256	43i – 120	43i – 120
1152 x 864	16.7m	-	60 – 70
	65,536	60 – 80	60 – 80
	256	60 – 100	60 – 100
1280 x 1024	16.7m	-	43i
	65,536	-	43i – 75
	256	43i – 75	43i – 75
1600 x 1200	65,536	-	48i
	256	48i – 60	48i – 60

\* 2MB variant is upgradable to 4MB.

## Monitor connector

GrafixStar 600 Pro uses a standard 15-way high density 'D' socket. If your monitor uses a different connector your dealer will be able to 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	+5 V	14	vertical
5	ground	10	sync return	15	DDC2B-clock

## Power and temperature specifications

GrafixStar 600 Pro operates at a nominal power rating of +6.5 Watts (8 Watts max), 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 600 Pro. For more detailed information refer to the readme file as listed on page 2.

**Problem:** After installing GrafixStar 600 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 600 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:** The refresh rate is too high for your monitor. Restart your PC (if you can't see the screen, use ALT+F4, DOWN ARROW, ENTER), and when the Starting Windows 95 message is displayed, press the CTRL key, keeping it pressed until Windows has restarted. This selects the lowest refresh rate for your monitor for the color and desktop settings. You can now choose a suitable refresh rate in Display Properties.

## Technical support

If you have any problems while installing or using GrafixStar 600 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 & South 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 & South 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 & South 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 South 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 & South America: 800 203 8587

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

# GrafixStar 600 Pro User Guide

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