# GV-N52128D / GV-N52128T-P

GeForce™ FX 5200 Graphics Accelerator

# **User's Manual**

Rev. 101 12MD-N52128-101

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#### **Notice**

Please do not remove any labels on motherboard, this may void the warranty of this motherboard.

 $\label{thm:continuous} \mbox{Due to rapid change in technology, some of the specifications might be out of date before publication of this booklet.}$ 

The author assumes no responsibility for any errors or omissions that may appear in this document nor does the author make a commitment to update the information ontained herein.

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# 1. Introduction

### 1.1. Features

- Powered by nVIDIA GeForce FX 5200 Graphics Processing Unit (GPU)
- Supports the new AGP 8X standard
- Integrated with 128MB DDR memory
- Supports TV-Out and D-Sub connectors
- Supports DVI-I connector (For GV-N52128D only)
- Supports Direct X 9.0 Spec

### 1.2. Minimum system requirement

- IBM® or 100% PC compatible with Pentium® III 650MHz or AMD Athlon 650MHz class processor or higher
- One available AGP3.0 compliant slot or better
- Operating Systems Win® 98/98SE / Win® 2000 / Win® ME / Win® XP
- 64MB system memory
- 50MB of available disk space for full installation
- CD-ROM or DVD-ROM drive

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### 2. Hardware Installation

### 2.1. Unpacking

The GV-N52128 Series package contains the following:

- ☑ The GV-N52128D or GV-N52128T-P graphics accelerator
- ☑ GV-N52128 Series user's manual
- ☑ GV-N52128 Series driver and utility CD
- Power DVD CD
- ✓ Game CD
- ☑ DVI-I to D-Sub connector (For GV-N52128D only)



Expansion cards contain very delicate Integrated Circuit (IC) chips. To protect them against damage from static electricity, you should follow some precautions whenever you work on your computer.

- 1. Turn off your computer and unplug power supply.
- Use a grounded wrist strap before handling computer components. If you do not have one, touch both of your hands to a safely grounded object or to a metal object, such as the power supply case.
- 3. Place components on a grounded antistatic pad or on the bag that came with the components whenever the components are separated from the system.

The card contains sensitive electric components, which can be easily damaged by static electricity, so the card should be left in its original packing until it is installed.

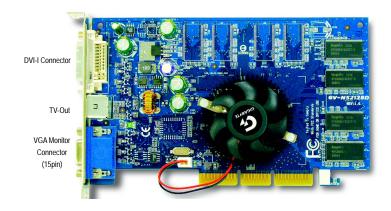
Unpacking and installation should be done on a grounded anti-static mat. The operator should be wearing an anti-static wristband, grounded at the same point as the anti-static mat.

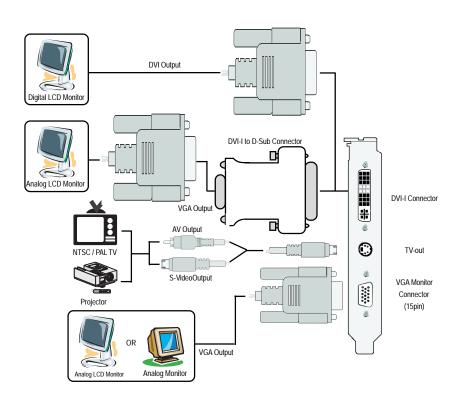
Inspect the card carton for obvious damage. Shipping and handling may cause damage to your card. Be sure there are no shipping and handling damages on the card before proceeding.

- ◆ DO NOT APPLY POWER TO YOUR SYSTEM IF IT HAS BEEN DAMAGED ON THE CARD.
- ♠\* In order to ensure your graphics card working correctly, please use official Gigabyte BIOS only. Use none official gigabyte BIOS might cause problem on the graphics card.

### 2.2. Board layout

1) GV-N52128D

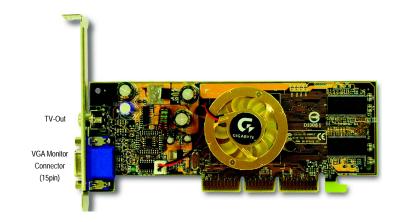


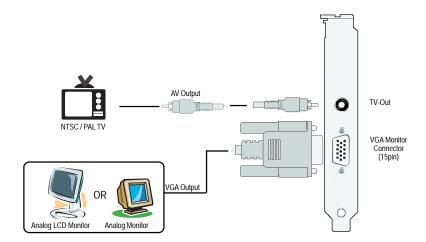


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Hardware Installation

### 2) GV-N52128T-P





### 2.3. Hardware installation

Installing Your graphics card.

Now that you have prepared your computer, you are ready to install your graphics accelerator card.

### To install your graphics accelerator card:

 Power off the computer and monitor, then disconnect the display cable from the back of your computer.



Remove the computer cover. If necessary, consult your computer's manual for help in removing the cover.

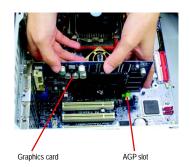


3. Remove any existing graphics card from your computer.

Or, if your computer has any on-board graphics capability, you may need to disable it on the motherboard. For more information, see you computer documentation.



Locate the AGP slot. If necessary, remove the metal cover from this slot; then align your graphics card with the AGP slot, and press it in firmly until the card is fully eated.



5. Replace the screw to fasten the card in place, and replace the computer cover.



6. Plug the display cable into your card; then turn on the computer and monitor. If your graphics card came with a DVI connector, you can connect a flat panel display to the appropriate connector, as shown below...







To Flat Panel Display (For GV-N52128D only)



You are now ready to proceed with the installation of the graphics card driver. For detailed instructions, select your operating system from the list below.

## 3. Software Installation

In this manual, we assume that your CD-ROM Drive letter to be Drive D:

The installation of Win® 98/98SE / Win® 2000 / Win® ME / Win® XP drivers is very simple. When you insert the driver CD into your CD-ROM drive, you can see the AUTORUN window (if it does not show up, run "D:\setup.exe"). Then you can follow the guides to setup your graphics card driver. (Please follow the subsection 3.1.3 "Driver installation" to install the driver for your graphics accelerator.)

### 3.1. Win® XP driver and utilities installation

### 3.1.1. Operating system requirement

- When loading the graphics card drivers for the system, please make sure your system has installed DirectX 8 or later version.
- If you install the graphics card drivers for the motherboard, which consist of SIS, ALI or VIA chipsets, please install the appropriate driver program for that motherboard. Or please contact your motherboard nearest dealer for motherboard driver.

### 3.1.2. DirectX installation

Install Microsoft DirectX to enable 3D hardware acceleration support for Windows® 98/98SE / Windows® 2000 / Windows® ME or Windows® XP to achieve better 3D performence.

Note: For software MPEG support in Windows® 98/ 98SE/ Windows® 2000 / Windows® ME or Windows® XP, you must install DirectX first.



Step 1. When autorun window show up, click **Install DirectX 9** item.



Step 2. Choose I accept the agreement and Click "Next" button.





Step 3. Click "Next" button.





Installing the components.





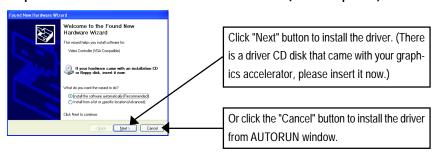
Step 4. Click "Finish" to restart computer.
Then the DirectX 9 installation is completed.

#### 3.1.3. Driver installation

#### A. New hardware found

After the graphics card is inserted into your computer at the first time, the windows will automatically detect a new hardware in the system and pop out a "New Hardware Found" message. The following is the step-by-step installation guide.

Step 1: Found new hardware wizard: Video controller (VGA Compatible)



#### Step 2: Found new hardware wizard: Searching and installing

The wizard will search for the driver and install it automatically.





Step 3: Found new hardware wizard: Finish

Click the "Finish" button to finish the installation.



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### B. Driver installation (Autorun Window)

Insert the driver CD disk into your CD-ROM, and then you can see the AUTORUN window. If it does not show up, please run "D:\setup.exe".



Step 1. When autorun window show up, click **Install Display Driver** item.



Next > Cancel

Step 2. Click "Next" button.





Windows installings the components.



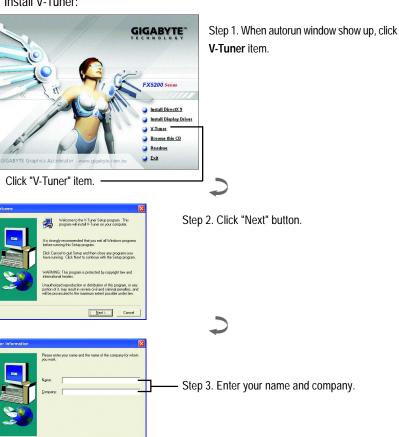


Step 3. Click "Finish" button to restart computer. Then the driver installation is completed.

### 3.1.4. Utilities on driver CD

Insert the driver CD disk into your CD-ROM, and then you can see the AUTORUN window. If it does not show up, please run "D:\setup.exe".

• Install V-Tuner:



**GV-N52128 Series Graphics Accelerator** 

< <u>Rack</u> Next> Cancel

Step 4. Click "Finish" button to restart computer. Then the V-Tuner installation is completed.

### V-Tuner (Overclock Utility)

**V-Tuner** lets you adjust the working frequency of the graphic engine and video memory (Core Clock and Memory Clock).

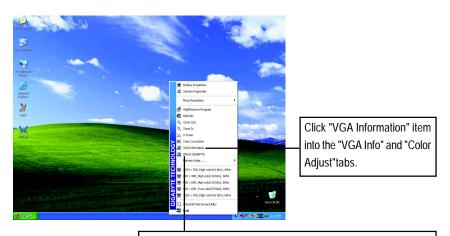


#### 3.1.5. Taskbar icon

After installation of the display drivers, you will find a GBT icon con the taskbar's status area. Right-clicking this icon opens the GBT control panel, showing a menu composed of shortcut of the graphics card's enhanced and other functions. You may click the "Display Properties" item, and then click Settings. Click "Advanced" after clicking Settings. Click the appropriate tab to change your display settings.



Right click the icon.



You can link to GBT website for updated information about the graphics accelerator, latest drivers, and other information.

### **VGA Information**

VGA Info lists the relevant information about your card.



### **Color Adjust**

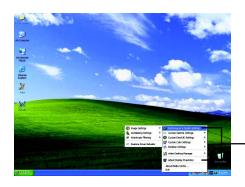
**Color Adjust** allows you to make color adjustments, such as brightness, contrast and gamma values for each or all of RGB colors.



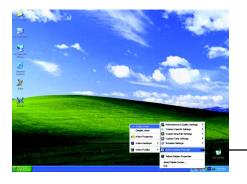
After installation of the display drivers, you will find a NVIDIA icon <a> on the taskbar's</a> status area. Clicking this icon open the control panel.



Right click the icon.



You can adjust the properties of the graphics accelertaor from here.



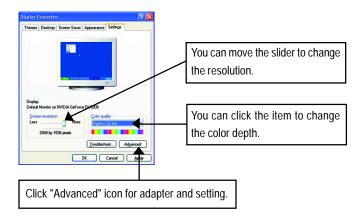
You can enable the nView function.

### 3.1.6. Display properties pages

The screen shows the information of display adapter, color, the range of display area and the refresh rate.

### **Settings (Resolutions and Color depth for windows)**

The Setting properties page allows you to adjust the screen resolution and color quality settings.



Click "Advanced", into details settings:



This page shows the Adapter, System and Driver versions information.

You can select other properties from the pop-out menu.

### **Screen Adjustment properties**



Click the icons on the desktop image to adjust the screen to the desired position.

Note: On certain monitors, the screen may go blank momentarily during adjustment.

### **Display Timing properties**



- Select the proper timing mode for your display.
  - Auto-Detect (Windows determines the proper mode.)
  - General Timing Formula (GTF)
  - Discrete Monitor Timings (DMT)
  - · Fixed Aspect Ratio Timings

### **Color Correction properties**



The Color Correction Properties is used to adjust the color settings. It also allows gamma control for video playing of the Video Overlay. The color settings affect all display devices mapped to the view. You can change red, green, and blue display colors. Set Desktop and Video Overlay brightness (gamma) levels can also be changed.

### Performance and Quality Settings properties



- The sliders lets to decide whether your application should use qulity or high performance texture.
  - Image Settings: Moving the slider to the left will maximize application performance, while moving the slider to the right will provide excellent 3D image quality.
  - Antialiasing: Improves image quality by removing jagged edges from 3D images.
  - Anisotropic Filtering: Use a texture filtering technique that blends multiple texture samples together. It will result in high quality textures, with a negligible reduction in the application's performance.

### **Direct3D Settings properties**



- Performance and Compatibility options.
  - · Enable fog table emulation.
  - · Display logo when running Direct3D applications.
  - · Mipmap Detail Level
  - · PCI Texture Memory Size
  - Custom Direct3D settings

### **Refresh Rate Override properties**



Click "Override refresh rates" to select refresh rate overrides to be used in Direct3D applications.

### **OpenGL Settings properties**



- Performance and Compatibility options.
  - · Disable support for enhanced CPU instruction sets.
  - · Enable conformant OpenGL texture clamp behavior.
  - · Multi-Display Hardware Acceleration
  - Default Color Depth (for textures)
  - Buffer-Flipping Mode
  - · Vertical Sync
  - · Custom OpenGL settings

### **Overlay Controls properties**



■ The Overlay Controls Properties is used to adjust the Brightness / Contrast / Hue / Saturation settings. Overlay properties allows for the viewing of full-motion video on your PC. However, there is only one video overlay, which is only available on the Primary display. The video overlay controls are automatically activated during playback of any video file type that supports overlay adjustments.

### **Desktop Utilities properties**



- The "Media Center" taskbar utility lets you conveniently access various features and presets you've configured in the Display Properties directly from the Windows taskbar.
  - Display the Media Center icon in the taskbar
     The Desktop Manager provides enhanced nView multi-display functionality and helps you organize your applications for use with multiple displays and desktops.
  - · Enable Desktop Manager

### **NV Rotate properties**

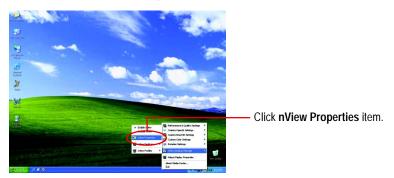


- The **NV Rotate Properties** is used to rotate the screen. If your monitor is capable of operating in either Landscape or Portrait mode, you can adjust the screen by this properties.
  - · Landscape (0 degree rotation)
  - Portrait (90 degree rotation)
  - Inverted Landscape (180 degree rotation)
  - · Inverted Portrait (270 degree rotation)

### 3.1.7. nView properties pages

**nView** is a set of desktop tools designed to help you be more productive when using your graphics card. Using **nView** you can set up multiple desktops to work with your applications. Multiple desktops give you extra desktop areas on which to run your applications so you won't have to crowd several open application windows on one desktop. Click on the NVIDIA icon on the taskbar's to enable the **nView**.

#### Access nView properties page:



### **nView Info properties**



This tab contains information about the nView Desktop Manager. The setup wizard can also be accessed from this tab.

### **nView Profiles properties**



This tab contains a record all nView display settings for easy software setup. You can either select a profile from the list below or create your own custom profile.

### **nView Windows properties**



■ This tab allows you to control of window and dialog box placement when using multiple monitors.

### **nView Effects properties**



■ This tab provides special windows effects that you can apply to your applications.

### **nView Zoom properties**



This tab provides dynamic zoom functionality on the desktop. Also enables full screen video playback via the video mirroring control button.

### **nView Hot Keys properties**



■ This tab lets you perform various actions with shortcut keys or key combinations.

### 3.2. Win® 98/98SE / Win® 2000 / Win® ME driver installation

Please make sure the Windows have installed Windows Service Pack version 2 (or later) before installing the graphics accelerator driver.

With Windows running on your computer, you need to install the graphics card driver to take advantage of the higher performance, resolutions, and special graphics features of the graphics card. To ensure you install the latest driver, insert the Installation CD that shipped with your graphics card.

To install the graphics card driver for Win® 98/98SE / Win® 2000 / Win® ME, please insert the Installation CD. Then the AUTORUN window will show up. Click **Install Display Driver** item, and follow the wizard to install the driver.

If Windows® does not show the CD automatically, please run following steps:

- 1. Click the Start button on the control bar.
- 2. Select Run.
- 3. Type the following: D:\SETUP.exe
  (If D is not your CD-ROM drive, substitute D with the correct drive letter.)
- 4. Click "OK".
- 5. Click on "Install Display Drivers" to begin the Installation Wizard.
- 6. Click "Next".
- 7. Click "Yes" to the license agreement.
- 8. Follow the Wizard's on-screen instructions to complete the installation.

### 3.3. BIOS flash utility

BIOS update procedure:

- ◆ Note: Please download the newest BIOS from our website (<u>www.gigabyte.com.tw</u>) or contact your local dealer for the file.
- If you want to realize the BIOS flash information, please refer to detail on page 29.

# 4. Troubleshooting Tips

The following troubleshooting tips may help if you experience problems. Contact your dealer or GBT for more advanced troubleshooting information.

- Check that the card is seated properly in the AGP slot.
- Ensure that the display cable is securely fastened to the card's display connector.
- Make sure that the monitor and computer are plugged in and receiving power.
- If necessary, disable any built-in graphics capabilities on your motherboard. For more information, consult your computer's manual or manufacturer.
  - (NOTE: Some manufacturers do not allow the built-in graphics to be disabled or to become the secondary display.)
- Make sure you selected the appropriate display device and graphics card when you installed the graphics driver.
- If you have problems during bootup, start your computer in Safe Mode. In Windows® 98 SE and Windows® Me, press and hold the CTRL key until the Microsoft® Windows® Startup Menu appears on the screen. Then select the number for Safe Mode, and press Enter. (You can also use F8 to bring up the Microsoft Windows® Startup Menu.) In Safe Mode, bring up the Device Manager and check for duplicate display adapter and monitor entries if you are only using one graphics card.
- For more assistance, use the Troubleshooting Guide located in the Windows® Help or contact your computer manufacturer.



If necessary, adjust your monitor's setting by monitor's adjust panel to make the screen looks focused, crisp, and sharp. (Please refer to the monitor's manual.)

# 5. Appendix

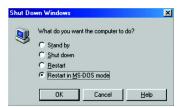
### 5.1. How to reflash the BIOS



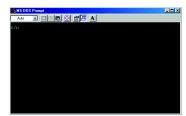
We use GV-N52128 Series VGA card and NVFLASH BIOS flash utility as **example**.

How to reflash the BIOS for your graphics card?

- 1. Extract the Zip file to the drive C: or A:
- Restart your PC in MS-DOS mode. (This function only for Windows 98/98SE, If your OS is Windows 2000/ Windows ME/ Windows XP. Please use the bootable disk to MS-DOS mode.)



3. Change the command path to the file location C:\> or A:\>



- 4. Backup BIOS command: C:\> nvflash -b <filename>
- 5. Reflash BIOS command as below: C:\> nvflash -f <filename>



6. Reboot your PC when it's done.

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Appendix

# 5.2. Resolutions and color depth table (In Windows® XP)

GV-N52128 Series Single Display Stardard Modes

Display	Refresh	Color Depth (bpp)		
Screen	Rate	8bpp(256 color)	16bpp(65K color)	32bpp(16.7M)
Resolution	(Hz)	Standard mode	High mode	True mode
320 x 200	60	✓	✓	✓
	70	✓	✓	✓
	72	✓	✓	✓
	75	✓	✓	✓
320 x 240	60	✓	✓	✓
	70	✓	$\checkmark$	✓
	72	$\checkmark$	✓	✓
	75	$\checkmark$	✓	✓
400 x 300	60	✓	✓	✓
	70	✓	✓	✓
	72	✓	✓	✓
	75	✓	✓	✓
480 x 360	60	✓	✓	✓
	70	✓	✓	✓
	72	✓	✓	✓
	75	✓	✓	✓
512 x 384	60	✓	✓	✓
	70	✓	✓	✓
	72	✓	✓	✓
	75	✓	✓	✓
640 x 400	60	✓	✓	✓
	70	$\checkmark$	✓	✓
	72	$\checkmark$	✓	✓
	75	✓	$\checkmark$	✓
640 x 480	60	✓	✓	✓
	70	✓	✓	✓
	72	✓	✓	✓
	75	✓	✓	✓
	85	✓	✓	✓
	100	✓	✓	✓
	120	✓	✓	✓
	140	✓	✓	✓
	144	✓	✓	✓
	150	✓	✓	✓
	170	✓	✓	✓
	200	✓	✓	✓
	240	✓	✓	✓
				To be continued

GV-N52128 Series Graphics Accelerator

Display	Refresh	Color Depth (bpp)		
Screen	Rate	8bpp(256 color)	16bpp(65K color)	32bpp(16.7M)
Resolution	(Hz)	Standard mode	High mode	True mode
720 x 480	60	✓	✓	✓
720 x 576	60	✓	✓	✓
800 x 600	60	✓	✓	✓
	70	✓	✓	✓
	72	✓	✓	✓
	75	✓	✓	✓
	85	✓	✓	✓
	100	✓	✓	✓
	120	✓	✓	✓
	140	✓	✓	✓
	144	✓	✓	✓
	170	$\checkmark$	$\checkmark$	$\checkmark$
	200	$\checkmark$	$\checkmark$	✓
	240	$\checkmark$	$\checkmark$	$\checkmark$
848 x 480	60	✓	✓	✓
	70	$\checkmark$	$\checkmark$	✓
	72	$\checkmark$	✓	$\checkmark$
	75	✓	✓	✓
	85	✓	✓	✓
	100	✓	✓	✓
	120	✓	✓	✓
	140	✓	✓	✓
	144	✓	✓	✓
	170	✓	✓	✓
	200	✓	✓	✓
	240	✓	✓	✓
1024 x 768	60	✓	✓	✓
	70	✓	✓	✓
	72	✓	✓	✓
	75	✓	✓	✓
	85	$\checkmark$	✓	✓
	100	✓	✓	✓
	120	✓	✓	✓
	140	✓	✓	✓
	144	✓	✓	✓
	150	✓	✓	✓
	170	✓	✓	✓
	200	✓	✓	✓
	240	√ ·	✓	X

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Display	Refresh	Color Depth (bpp)		
Screen	Rate	8bpp(256 color)	16bpp(65K color)	32bpp(16.7M)
Resolution	(Hz)	Standard mode	High mode	True mode
1152 x 864	60	✓	✓	✓
	70	✓	✓	✓
	72	✓	✓	✓
	75	✓	✓	✓
	85	✓	✓	✓
	100	✓	✓	✓
	120	✓	✓	✓
	140	✓	✓	✓
	144	✓	✓	Χ
	150	✓	✓	✓
	170	✓	✓	✓
	200	✓	✓	Χ
1280 x 720	60	✓	✓	✓
	70	✓	✓	✓
	72	✓	✓	✓
	75	✓	✓	✓
	85	✓	✓	✓
	100	✓	✓	✓
	120	✓	✓	✓
	140	✓	✓	✓
	144	✓	✓	Χ
	150	✓	✓	✓
	170	✓	✓	Χ
1280 x 768	60	✓	✓	✓
	70	✓	✓	✓
	72	✓	✓	✓
	75	✓	✓	✓
	85	✓	✓	✓
	100	✓	✓	✓
	120	✓	✓	✓
	140	✓	✓	✓
	144	✓	✓	Χ
	150	✓	✓	✓
	130	•	•	•

To be continued...

Display	Refresh	Color Depth (bpp)		
Screen	Rate	8bpp(256 color)	16bpp(65K color)	32bpp(16.7M)
Resolution	(Hz)	Standard mode	High mode	True mode
1152 x 960	60	✓	✓	✓
	70	✓	✓	✓
	72	✓	✓	✓
	75	✓	✓	✓
	85	✓	✓	✓
	100	✓	✓	✓
	120	✓	✓	✓
	140	✓	✓	✓
	144	✓	✓	Χ
	150	✓	✓	✓
	170	✓	✓	Χ
1280 x 1024	60	✓	✓	✓
	70	✓	✓	✓
	72	$\checkmark$	✓	✓
	75	$\checkmark$	✓	✓
	85	$\checkmark$	✓	✓
	100	$\checkmark$	✓	✓
	120	$\checkmark$	✓	✓
	140	✓	✓	✓
	144	✓	✓	Χ
	150	✓	✓	✓
	170	✓	✓	Χ
1360 x 768	60	✓	✓	✓
	70	✓	✓	✓
	72	✓	✓	✓
	75	✓	✓	✓
	85	✓	✓	✓
	100	✓	✓	✓
	120	✓	✓	✓
	140	✓	✓	✓
	144	✓	✓	Χ
	150	✓	✓	✓
	170	$\checkmark$	$\checkmark$	Χ

To be continued...

Display	Refresh	Color Depth (bpp)		
Screen	Rate	8bpp(256 color)	16bpp(65K color)	32bpp(16.7M)
Resolution	(Hz)	Standard mode	High mode	True mode
1600 x 900	60	✓	✓	✓
	70	✓	✓	$\checkmark$
	72	✓	✓	✓
	75	✓	✓	$\checkmark$
	85	✓	✓	$\checkmark$
	100	✓	✓	$\checkmark$
	120	✓	✓	✓
	140	✓	✓	Χ
	144	✓	✓	Χ
	150	✓	✓	Χ
1600 x 1024	60	✓	✓	✓
	70	✓	✓	$\checkmark$
	72	✓	✓	$\checkmark$
	75	✓	✓	$\checkmark$
	85	✓	✓	$\checkmark$
	100	✓	✓	$\checkmark$
	120	$\checkmark$	✓	Χ
1600 x 1200	52	✓	✓	✓
	60	✓	$\checkmark$	✓
	70	$\checkmark$	✓	$\checkmark$
	72	$\checkmark$	✓	$\checkmark$
	75	$\checkmark$	✓	$\checkmark$
	85	✓	✓	$\checkmark$
	100	$\checkmark$	✓	$\checkmark$
	120	$\checkmark$	✓	Χ
1920 x 1080	30	✓	✓	✓
	60	$\checkmark$	$\checkmark$	$\checkmark$
	70	$\checkmark$	✓	$\checkmark$
	72	$\checkmark$	✓	$\checkmark$
	75	$\checkmark$	✓	$\checkmark$
	85	$\checkmark$	✓	$\checkmark$
	100	$\checkmark$	✓	Χ

To be continued...

Display	Refresh	Color Depth (bpp)		
Screen	Rate	8bpp(256 color)	16bpp(65K color)	32bpp(16.7M)
Resolution	(Hz)	Standard mode	High mode	True mode
1920 x 1440	60	✓	✓	✓
	70	✓	✓	✓
	72	✓	✓	Χ
	75	✓	✓	$\checkmark$
	85	✓	✓	Χ
2048 x 1536	60	✓	✓	✓
	70	✓	✓	Χ
	72	✓	✓	Χ
	75	✓	✓	Χ

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 $<sup>^{\</sup>star}\,$  Lower maximum refresh rates at some resolutions when using lower bandwidth memory configuration.

GV-N52128 Series Graphics Accelerator

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Appendix

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