Declaration of Conformity We, Manufacturer/Importer (full address)

G.B.T. Technology Trading GMbH Ausschlager Weg 41, 1F 20537 Hamburg, Germany

declare that the product (description of the apparatus, system, installation to which it refers)

VGA Card

GV-N68T256D

is in conformity with (reference to the specification under which conformity is declared) in accordance with 89/336 EEC-EMC Directive

□ EN 55011	Limits and methods of measurement of radio disturbance characteristics of	⊠ EN 61000-3-2	Disturbances in supply systems caused
	industrial, scientific and medical (ISM) high frequency equipment	⊠ EN 61000-3-3	Disturbances in supply systems caused by household appliances and similar electrical equipment "Voltage fluctuations"
□ EN 55013	Limits and methods of measurement of radio disturbance characteristics of broadcast receivers and associated equipment	⊠ EN 55024	Information Technology equipment-Immunity characteristics-Limits and methods of measurement
□ EN 55014-1	Limits and methods of measurement of radio disturbance characteristics of household electrical appliances,	□ EN 50082-1	Generic immunity standard Part 1: Residual, commercial and light industry
	portable tools and similar electrical apparatus	□ EN 50082-2	Generic immunity standard Part 2: Industrial environment
□ EN 55015	Limits and methods of measurement of radio disturbance characteristics of fluorescent lamps and luminaries	□ EN 55014-2	Immunity requirements for household appliances tools and similar apparatus
□ EN 55020	Immunity from radio interference of broadcast receivers and associated equipment	□ EN 50091- 2	EMC requirements for uninterruptible power systems (UPS)
⊠ EN 55022	Limits and methods of measurement of radio disturbance characteristics of information technology equipment		
□ DIN VDE 0855 □ part 10 □ part 12	Cabled distribution systems; Equipment for receiving and/or distribution from sound and television signals	CE (FC or	
⊠ CE marking		(EC co	onformity marking)
	The manufacturer also declares the with the actual required safety sta		
□ EN 60065	Safety requirements for mains operated electronic and related apparatus for household and similar general use	□ EN 60950	Safety for information technology equipment including electrical business equipment
□ EN 60335	Safety of household and similar electrical appliances	□ EN 50091-1	General and Safety requirements for uninterruptible power systems (UPS)
	<u>Manufac</u>	cturer/Importer	Signature : <u>Timmy Huang</u>
(Stamp)	Date : Jul. 21, 2	004	Name:Timmy Huang

DECLARATION OF CONFORMITY

Per FCC Part 2 Section 2.1077(a)



Responsible Party Name: G.B.T. INC. (U.S.A.)

Address: 17358 Railroad Street

City of Industry, CA 91748

Phone/Fax No: (818) 854-9338/ (818) 854-9339

hereby declares that the product

Product Name: VGA Card

Model Number: GV-N68T256D

Conforms to the following specifications:

FCC Part 15, Subpart B, Section 15.107(a) and Section 15.109

(a), Class B Digital Device

Supplementary Information:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful and (2) this device must accept any inference received, including that may cause undesired operation.

Representative Person's Name: <u>ERIC LU</u>

Signature: Eric Lu

Date: Jul. 21, 2004

GV-N68T256D

GeForce[™] 6800 GT Graphics Accelerator

User's Manual

Rev. 101 12MD-N68T256D-101

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Notice

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

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 contained herein.

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1. Introduction

1.1. Features

- Powered by NVIDIA® GeForce™ 6800 GT Graphics Processing Unit (GPU)
- Supports the new AGP 8X
- Integrated with 256MB DDR III memory
- Supports DirectX 9.0
- Supports TV-Out and D-Sub connectors
- Supports DVI-I connector

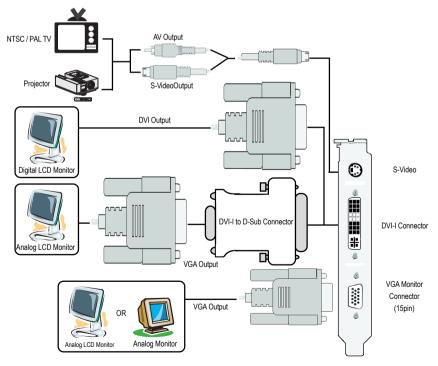
1.2. Minimum System Requirement

- 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[®] 2000 / Win[®] XP
- 64MB system memory
- 50MB of available disk space for full installation
- CD-ROM or DVD-ROM drive

2. Hardware Installation

2.1. Board Layout







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.
- 2. 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. 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 your computer documentation.



4. 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 seated



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







After installation, please connect the power cable to your GV-N68T256D graphics card, or the system will not boot.

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









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® 2000 / 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 9 or later version.
- If you install the graphics card drivers for the motherboard, which consist of SIS 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® 2000 or Windows® XP to achieve better 3D performence.

● Note: For software MPEG support in Windows® 2000 or Windows® XP, you must install DirectX first.



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

Click "Install DirectX 9" item.





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





Step 3. Click "Next" button.





Installing the components.





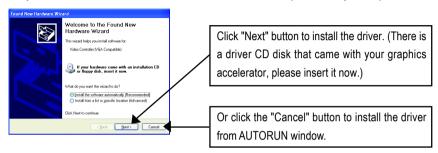
Step 4. Click "Finish" to restart computer.
Then the DirectX 9 installation is completed.

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.



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.

Click "Install Display Driver" item.





Step 2. Click "Next" button.





Windows installings the components.



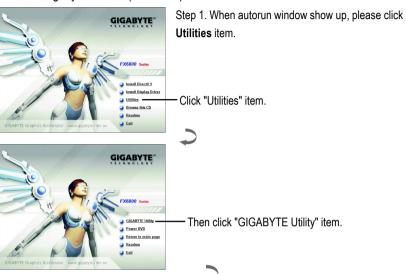


Step 3. Click "Finish" button to restart computer. Then the driver installation is completed.

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 Gigabyte Utilities (V-Tuner 2):





Step 2. Click "Next" button.





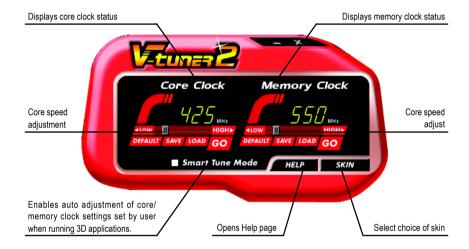
Step 3. Enter your name and company. -



Step 4. Click "Finish" button to restart computer. Then the utilities installation is completed.

V-Tuner 2 (Overclock Utility)

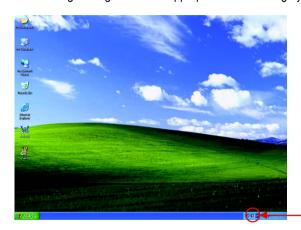
V-Tuner 2 lets you adjust the working frequency of the graphic engine and video memory (Core Clock and Memory Clock).



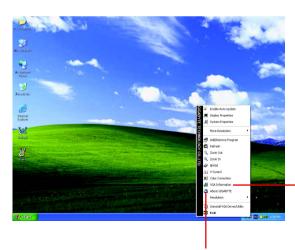
3.1.5. Taskbar Icon

After installation of the display drivers, you will find a GBT icon on 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.



Click "VGA Information" item into the "VGA Info" and "Color Adjust" tabs.

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 2 on the taskbar's status area. Clicking this icon open the control panel.



Right click the icon.



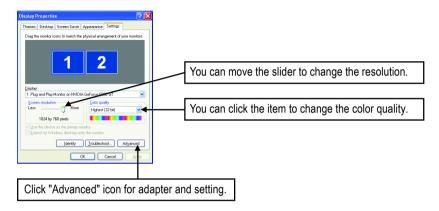
 You can adjust the properties of the graphics accelertaor from here.

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, color quality and advanced settings.



Click "Advanced", into details settings:

GeForce 6800 GT properties



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

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

nView Display Mode properties



- nView allows you to connect separate displays to single graphics card.
 - nView modes: select your preferred nView display modes here. Options: Single display/ Clone/ Horizontal span/ Vertical span/ Dualview
 - Display pair: select a single display or display pair. The selected display combination will appear in the graphical representation below.
 - · Display: select the primary display device
 - Click Apply to apply settings or click OK to save settings.
- If TV is chosen as the display, you will need to select the proper TV format. To do this, click "Device Setting" followed by "Select TV format". Select the format for your television and then click "Apply" followed by "OK".

Display	Model	GV-N68T256D
Matrix	CRT+TV	Yes
	CRT+DVI	Yes
	DVI+TV	Yes

Performance and Quality Settings properties



- The sliders lets to decide whether your application should use gulity or high performance texture.
 - Application profiles: Select the application profile from the list of profiles.
 - Global Driver Settings: Slect the Settings item and move the slider below to set the degree of antialiasing to used in Direct3D and OpenGL applications.
 - Antialiasing settings: allows to set the degree of the Global Driver Settings.

Color Correction properties



■ The Color Correction Properties is used to compensation for variations in luminance between a source image and its output on a display device. Adjust the color correction settings to provide more accurate color reproduction of images(such as photographs) on your display device. Also, many 3D-accelerated games may appear too dark to play. Increasing the brightness and/or the gamma value equally across all channels makes these games appear brighter and more playable.

Overlay Controls properties



■ The Overlay Controls Properties can adjust Overlay zoom contorls and Overlay color controls. 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. The "Adjust Colors" button will access "Color Correction" properties page.

Full Screen Video properties



■ The Full Screen Video Properties can adjust the display to full screen mode when video is being played.

Troubleshooting properties



- The NVIDIA settings taskbar utility lets you conveniently access various features and presets you've configured in the Display Properties directly from the Windows taskbar.
 - Display the NVIDIA Settings 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.
 - My connected TV does not appear in this list
 This option can be used to force detection of an attached
 TV set which does not report its presence to the graphics card.

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)

Temperature Settings properties



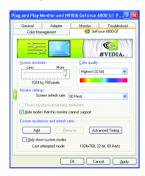
The Temperature Properties can detect the GPU Core temperature and Ambient temperature automatically. Enable heat indicator warning when threshold exceeded: enables the heat indicator warning dialog bos.

Refresh Rate Overrides properties



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

Change Resolutions properties



■ The Change Resolutions Properties allows you to adjust the screen resolution, color quality and monitor settings (screen rdfresh rates). Or you can customize resolutions and refresh rates.

Screen Menus properties



■ The Screen Menus Properties can remove infrequently used screens by dragging them from the screen menu to the list below. Restore screens to the menu by dragging them individually, or click Restore Defaults.

To begin, check the **Enable screen menu editing** check box. To return to normal navigation mode, uncheck the check box.

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. You can click on the NVIDIA icon **a** on the taskbar's to enable the **nView** or choose the Display Properties\Advanced\Desktop Management.

Enable the nView Desktop Manager features:

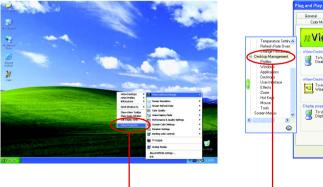
Choose Display Properties\Advanced\GeForce tab\Desktop Management



Click Enable button to turn on all the nView Desktop Manager features.

Access nView properties page:

A: right click icon\nView Desktop Manager\ nView Properties B: Choose Display Properties\Advanced\
GeForce tab\Desktop Management





Click the item to start nView Properties.

nView Desktop Management 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.

nView Windows properties



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

nView Applications properties



This tab allows you to control nView settings on a per application basis.

nView Desktops properties



■ This tab allows you to create up to 32 unique desktops.

nView User Interface properties



■ This tab allows customization of the nView user interface.

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.

nView Mouse properties



■ This tab can modify and extend mouse behavior with kinematic actions.

nView Tools properties



■ This tab can improve nView functionality for mobile and desktop users.

3.2. Win® 2000 Driver Installation

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® 2000, 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:

- Click the Start button on the control bar.
- 2 Select Run
- 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.



Please make sure the Windows® 2000 have installed Windows® 2000 Service Pack (or later) before installing the graphics accelerator driver.

3.3. BIOS Flash Utility

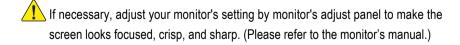
BIOS update procedure:

- Note: Please download the newest BIOS from our website (www.gigabyte.com.tw) or contact your local dealer for the file.
- If you want to realize the BIOS flash information, please refer to detail on subsection 5.1. "How to reflash the BIOS".

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.



5. Appendix

5.1. How to Reflash the BIOS

5.1.1. Reflash BIOS in MS-DOS mode

- Extract the downloaded Zip file to your hard disk(s) (ex: drive C) or floppy disk. This procedure
 assumes drive C.
- Restart the computer in MS-DOS mode by choosing "Restart in MS-DOS mode" in the Shut Down Windows dialog box. (This option is only available with Windows 98/98SE. For Windows 2000/ME/XP, you need a startup disk to restart the computer in MS-DOS mode.)
- 3. Change the command prompt to C:\>.
- 4. Back up the current BIOS by typing **gvf11 -s filename** at the C:\> prompt and press **Enter**.
- 5. Begin to flash BIOS by typing **gvf11 -p filename (ex:n55128d.f1)** at the C:\> prompt and press **Enter**.
- 6. Restart your computer when it's done.

5.1.2. Reflash BIOS in Windows mode

 After installing the display drivers, you will find a GBT icon in the lower-right corner of the Taskbar. Right-click to select the @VGA utility.





@VGA flash BIOS utility.

- 2. Update BIOS through the Internet
 - a. Select the Live Update check box and click Flash. Then @VGA will automatically download the BIOS for your card from GBT @VGA server and do the update for you.(@VGA will not download/update the BIOS if it detects the current BIOS on your card is the latest one.)
- 3. Update BIOS NOT through the Internet
 - a. Download the BIOS ZIP file for your card from GBT website and extract it to your hard disk (or floppy disk).
 - b. Select the From Local File check box and then click Flash.
 - c. Select the BIOS file from your hard disk (or floppy disk).
 - d. Complete the update procedure following the on-screen instructions.

5.2. Resolutions and Color Depth Table (In Windows® XP)

GV-N68T256D 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	✓	✓	✓
	72	✓	✓	✓
	75	✓	✓	✓
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	✓	✓	✓
	72	✓	✓	✓
	75	✓	✓	✓
640 x 480	60	✓	✓	✓
	70	✓	✓	✓
	72	✓	✓	✓
	75	✓	✓	✓
	85	✓	✓	✓
	100	\checkmark	✓	✓
	120	\checkmark	✓	✓
	140	✓	✓	✓
	144	\checkmark	✓	✓
	150	✓	✓	✓
	170	✓	✓	✓
	200	✓	✓	✓
	240	\checkmark	✓	✓
				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
720 x 480	60	✓	√	√
720 x 576	60	✓	✓	✓
800 x 600	60	✓	✓	✓
	70	\checkmark	\checkmark	✓
	72	✓	✓	✓
	75	✓	✓	✓
	85	\checkmark	\checkmark	✓
	100	\checkmark	\checkmark	✓
	120	✓	✓	✓
	140	✓	✓	✓
	144	✓	✓	✓
	150	✓	✓	✓
	170	✓	✓	✓
	200	✓	✓	✓
	240	✓	✓	✓
848 x 480	60	✓	✓	✓
	70	✓	✓	✓
	72	✓	✓	✓
	75	✓	✓	✓
	85	✓	✓	✓
	100	✓	✓	✓
	120	✓	✓	✓
	140	✓	✓	✓
	144	✓	✓	✓
	150	✓	✓	✓
	170	✓	✓	✓
	200	✓	✓	✓
	240	✓	✓	✓
1024 x 768	60	✓	✓	✓
	70	✓	✓	✓
	72	✓	✓	✓
	75	✓	✓	✓
	85	✓	✓	✓
	100	✓	✓	✓
	120	\checkmark	\checkmark	✓
	140	✓	\checkmark	✓
	144	✓	\checkmark	✓
	150	✓	✓	✓
	170	✓	✓	✓
	200	✓	✓	✓
	240	✓	✓	Χ

Display	Refresh	Color Depth (bpp)		
Screen	Rate	8bpp(256 color)	16bpp(65K color)	32bpp(16.7M)
Resolution	(Hz)	Standard mode	High mode	True mode
1088 x 612	60	✓	✓	✓
	70	✓	✓	✓
	72	✓	✓	✓
	75	✓	✓	✓
	85	✓	✓	✓
	100	✓	✓	✓
	120	✓	✓	✓
	140	✓	✓	✓
	144	✓	✓	✓
	150	✓	✓	✓
	170	✓	✓	✓
	200	✓	✓	✓
	240	✓	✓	Χ
1152 x 864	60	✓	✓	✓
	70	✓	✓	✓
	72	✓	✓	✓
	75	✓	✓	✓
	85	✓	✓	✓
	100	✓	✓	✓
	120	✓	✓	✓
	140	✓	✓	✓
	144	✓	✓	✓
	150	✓	✓	✓
	170	✓	✓	✓
	200	✓	✓	Χ
1280 x 720	60	✓	✓	✓
	70	✓	✓	✓
	72	✓	✓	✓
	75	✓	✓	✓
	85	✓	✓	✓
	100	✓	✓	✓
	120	✓	✓	✓
	140	✓	✓	✓
	144	✓	✓	✓
	150	✓	✓	✓
	170	✓	✓	Χ

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

Display	Refresh	Color Depth (bpp)		
Screen	Rate	8bpp(256 color)	16bpp(65K color)	32bpp(16.7M)
Resolution	(Hz)	Standard mode	High mode	True mode
1360 x 768	60	✓	✓	✓
	70	✓	\checkmark	\checkmark
	72	✓	✓	✓
	75	✓	✓	✓
	85	✓	✓	✓
	100	✓	✓	✓
	120	✓	✓	✓
	140	✓	✓	✓
	144	✓	✓	✓
	150	✓	✓	✓
	170	✓	✓	Χ
1600 x 900	60	✓	✓	✓
	70	✓	✓	✓
	72	✓	✓	✓
	75	✓	✓	✓
	85	✓	✓	✓
	100	✓	✓	✓
	120	✓	✓	✓
	140	✓	✓	Χ
	144	✓	✓	Χ
	150	✓	✓	Χ
1600 x 1024	60	✓	✓	√
	70	✓	✓	✓
	72	✓	✓	✓
	75	✓	✓	✓
	85	✓	✓	✓
	100	✓	✓	✓
	120	✓	✓	Χ
1600 x 1200	52	✓	√	√
	60	✓	✓	✓
	70	✓	✓	✓
	72	✓	✓	✓
	75	✓	✓	✓
	85	✓	✓	✓
		,	✓	✓
	100	\checkmark	V	V

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 1080	30	✓	✓	✓
	60	\checkmark	✓	✓
	70	\checkmark	✓	✓
	72	✓	✓	✓
	75	✓	✓	✓
	85	✓	✓	✓
	100	✓	✓	Χ
1920 x 1200	52	✓	✓	✓
	60	✓	✓	✓
	70	✓	✓	✓
	72	✓	✓	✓
	75	✓	✓	✓
	85	✓	✓	✓
	100	✓	✓	Χ
1920 x 1440	60	✓	✓	✓
	70	✓	✓	✓
	72	✓	✓	✓
	75	✓	✓	✓
	85	\checkmark	✓	✓
2048 x 1536	60	✓	✓	√
	70	✓	✓	✓
	72	\checkmark	✓	✓
	75	\checkmark	✓	✓
	85	✓	✓	✓

^{*} Lower maximum refresh rates at some resolutions when using lower bandwidth memory configuration.