GV-NX88T512HP/GV-NX88T512H/GV-NX88G384H/GV-NX96G384H/GV-NX88T256H

GeForce™8800/9600 Graphics Accelerator

User's Manual

Rev. 103 12MD-NX88T5HP-103R

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(reference to the specification under which conformity is declared) in accordance with 89/336 EEC-EMC Directive GV-NX88T512HP/GV-NX88T256H VGA Card

	□ EN 55015 Limits and metho	portable tools and similar electr apparatus	☐ EN 55014-1 Limits and metho of radio disturban	□ EN 55013 Limits and metho of radio disturbar broadcast receive equipment	industrial scientificand m industrial scientificand m high frequency equipment	□ EN 55011 Limits and metho
Immunity from radio interference of	Limits and methods of measurement of radio disturbance characteristics of fluorescent lamps and luminaries	portable tools and similar electrical apparatus	Limits and methods of measurement of radio disturbance characteristics of household electrical politicage.	Limits and methods of measurement of radio disturbance characteristics of broadcast receivers and associated equipment	industrial, scientific and medical (ISM) high frequency equipment	Limits and methods of measurement
☐ EN 50091-2	□ EN 65014-2	□ EN 50082-2	□ EN 50082-1	⊠ EN 55024	⊠ EN 61000-3-3	III EN 61000-3-2
EMC requirements for unintermedible	Immunity requirements for household appliances tools and similar apparatus	Generic immunity standard Part 2: Industrial environment	Generic immunity standard Part 1: Residual, commercial and light industry	Information Technology equipment-Immunity characteristics-Limits and methods of measurement	Disturbances in supply systems caused by household appliances and similar electrical equipment "violage fluctuations"	Disturbances in supply systems caused

(EC conformity marking)

⊠ CE marking

⋈ EN 55022

Limits and methods of measurement of radio disturbance characteristics of information technology equipment

□ DIN VDE 0855 Cabled distribution systems; Equipment
□ part 10 for receiving and/or distribution from
□ part 12 sound and television signals

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Safety of household and similar electrical appliances Safety requirements for mains operated electronic and related apparatus for household and similar general use EN 60950 ☐ EN 50091-1 General and Safety requirements for uninterruptible power systems (UPS) Safety for information technology equipment including electrical business equipment

□ EN 60335 ☐ EN 60065

(Stamp)

Date:

Nov. 26, 2007

Timmy Huang

Manufacturer/Importe Timmy Huang

DECLARATION OF CONFORMITY

Per FCC Part 2 Section 2.1077(a)



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Address: 17358 Railroad Street City of Industry, CA 91748

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

hereby declares that the product

Model Number: GV-NX88T512HP/ GV-NX88T256H Product Name: VGA Card

Conforms to the following specifications:

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

Supplementary Information:

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

Representative Person's Name: ERIC LU

Signature: Eric Lu

Date: Nov. 26, 2007

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

GV-NX88T512H

â

□ EN 60335	□ EN 60065			□ DIN VDE 0855 □ part 10 □ part 12	⊠ EN 55022	□ EN 55020	□ EN 55015		□ EN 55014-1	□ EN 55013		□ EN 55011
Safety of household and similar electrical appliances	Safety requirements for mains operated electronic and related apparatus for household and similar general use	The manufacturer also declares the conformity of above mentioned product with the actual required safety standards in accordance with LVD 2006/95/EC		Cabled distribution systems; Equipment for receiving and/or distribution from sound and television signals	Limits and methods of measurement of radio disturbance characteristics of information technology equipment	immunity from radio interference of broadcast receivers and associated equipment	Limits and methods of measurement of radio disturbance characteristics of fluorescent lamps and luminaries	portable tools and similar electrical apparatus	Limits and methods of measurement of radio disturbance characteristics of boundhald distributions applications.	Limits and methods of measurement of radio disturbance characteristics of broadcast receivers and associated equipment	industrial, scientific and medical (ISM) high frequency equipment	Limits and methods of measurement of radio disturbance characteristics of
□ EN 50091-1	⊠ EN 60950	conformity of above lards in accordance	(EC	•		□ EN 50091- 2	□ EN 55014-2	□ EN 50082-2	□ EN 50082-1	⊠ EN 55024	⊠ EN 61000-3-3	III EN 61000-3-2
General and Safety requirements for uninterruptible power systems (UPS)	Safety for information technology equipment including electrical business equipment	mentioned product with LVD 2006/95/EC	(EC conformity marking)			EMC requirements for uninterruptible power systems (UPS)	Immunity requirements for household appliances tools and similar apparatus	Generic immunity standard Part 2: Industrial environment	Generic immunity standard Part 1: Residual, commercial and light industry	Information Technology equipment-Immunity characteristics-Limits and methods of measurement	Disturbances in supply systems caused by household appliances and similar electrical equipment "Voltage fluctuations"	Disturbances in supply systems caused

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Address: 17358 Railroad Street

Phone/Fax No: (818) 854-9338/ (818) 854-9339 City of Industry, CA 91748

hereby declares that the product

Product Name: VGA Card

Model Number: GV-NX88T512H

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

Supplementary Information:

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

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Signature: Eric Lu

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Date: Mar 24, 2008 Manufacturer/Importe

Timmy Huang Timmy Huang

Date: Mar. 24, 2008

- 3 -

Hardware Installation

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GV-NX88G384H/GV-NX96G384H VGA Card

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

□ EN 55011	Limits and methods of measurement	M 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		

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□ DIN VDE 0855 Cabled distribution systems; Equipment
□ part 10 for receiving and/or distribution from
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□ EN 60335 ☐ EN 60065

Manufacturer/Importe Timmy Huang

(Stamp)

Date: Apr. 11, 2008

Timmy Huang

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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-NX88G384H/ GV-NX96G384H

Conforms to the following specifications:

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

Supplementary Information:

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

Representative Person's Name: ERIC LU

Signature: Eric Lu

Date: Apr. 11, 2008

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(Note) This item will show up when you connect two monitors.

1. Introduction

1.1. Features

- Powered by NVIDIA® GeForce™ 8800/9600 Graphics Processing Unit (GPU)
- Supports PCI Express 2.0
- Integrated with 512 MB GDDR3 memory (For GV-NX88T512HP/512H only)
- Integrated with 384 MB GDDR3 memory (For GV-NX88G384H/GV-NX96G384H only)
- Integrated with 256 MB GDDR3 memory (For GV-NX88T256H only)
- Supports DirectX 10
- Supports NVIDIA® SLI™ (Scalable Link Interface) technology (Note)
- Supports AV / S-Video / TV-Out and HDTV output
- Supports 2 DVI-I connectors
- Supports 2 D-Sub connectors (by adapters)
- Supports HDTV output (by adapter)
- Supports HDCP (High-Bandwidth Digital Content Protection) technology

1.2. Minimum System Requirements

Hardware

- Intel® Pentium® 4 or AMD Athlon™
- 128 MB of system memory: 2 GB or more for best performance
- Optical drive for software installation (CD-ROM or DVD-ROM drive)
- A 450 Watt power supply or above is a must

Operating System

- Windows® Vista
- Windows® XP with Service Pack 2 (SP2)
- Windows® XP Professional x64 Edition

SLI[™] Configuration

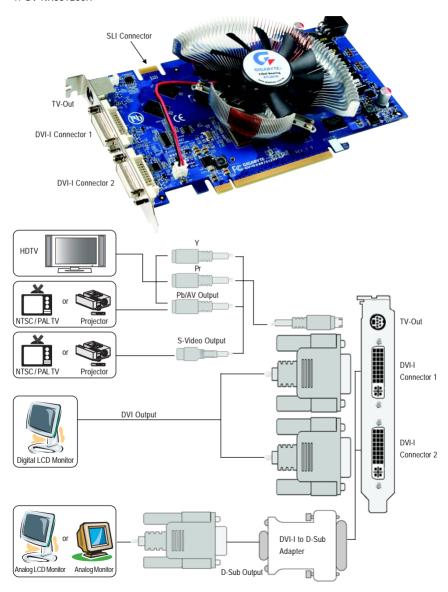
If you are planning on using this graphics card as part of an SLI system, the following are required:

- An SLI certified motherboard with two PCI Express x16 slots and correct chipset driver
- Two GV-NX88T512H(P)/GV-NX88G384H/GV-NX96G384H/GV-NX88T256H
- A power supply with 1000-watt or above is recommended
- An SLI bridge connector
- (Note) SLI technology requires a PCI Express motherboard with two x16 physical connectors. Graphics cards working in an SLI configuration must be with the same model name (e.g. GV-NX88T512H(P)/GV-NX88G384H/GV-NX96G384H/GV-NX88T256H) and from the same vendor (e.g. GIGABYTE TECHNOLOGY).

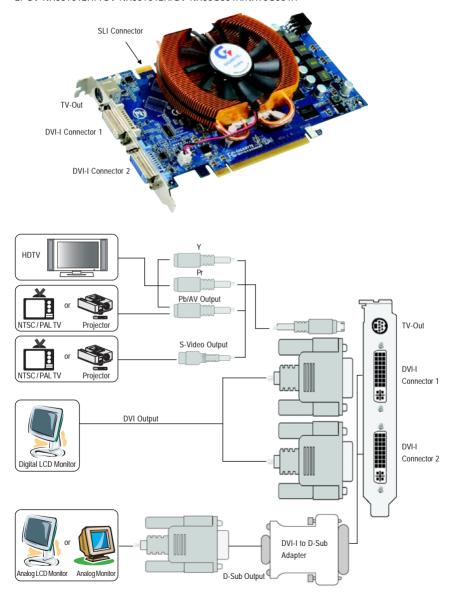
2. Hardware Installation

2.1. Board Layout

1. GV-NX88T256H



2. GV-NX88T512HP/GV-NX88T512H/GV-NX88G384H/NX96G384H





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 THE GRAPHICS CARD IS DAMAGED.
- ◆* In order to ensure that your graphics card can work correctly, please use official GIGABYTE BIOS only. Using non-official GIGABYTE BIOS might cause problem(s) on the graphics card.

2.2. Hardware Installation

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

To remove the existing graphics card:

Step 1.

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



Step 2.

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



Step 3.

Remove any existing graphics card from your computer.



To install your new graphics card:

Step 1.

Locate the PCI Express x16 slot. If necessary, remove the metal cover from this slot; then align your graphics card with the PCI Express x16 slot, and press it in firmly until the card is fully seated.

* Please make sure that the gold edge connector of the graphics card is securely inserted.









replace the computer cover.



After installation, remember to connect the power cable to your graphics card, or the system will not boot. Do not touch the card when it's operating to prevent system instability.

Step 3.

Plug the display cable into your graphics card; then turn on the computer and monitor. To connect a flat panel directly to your graphics card, use the DVI-I connector. To connect a D-Sub monitor to the DVI-I connector, plug the DVI-I to D-Sub adapter into the DVI-I connector, then plug the monitor cable into the adapter.



To TV / VCR To Flat Panel Display







Connect a D-Sub monitor via DVI-I to D-Sub adapter

You are now ready to proceed with the installation of the graphics card driver. Please refer to next chapter for detailed instructions.

GIGABYTE Video Adapter



Connect to the TV-Out port on the graphics card.

(1) Connecting HDTV Connect your HDTV cables to the video adapter according to the corresponding color. (Y= Green, Pr= Red, Pb= Blue)



(2) Connecting S-Video
If your TV has a S-Video connection, connect the S-Video
cable from your TV to the S-Video Out port on the adapter.



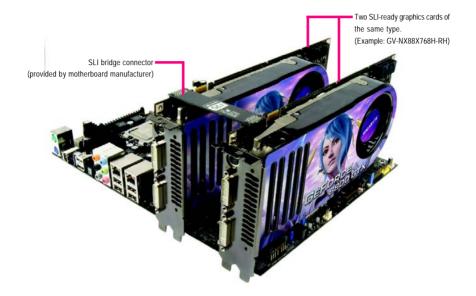
(3) Connecting AV Output

If your TV has a Composite video connection, you can connect
the RCA cable from your TV to the AV Out port on the adapter.



How NVIDIA® SLI™ technology works:

In an SLI configuration, two SLI-ready graphics cards of the same model and the same manufacturers are connected together via SLI bridge connector in a system that provides two x16 PCI Express slots to scale graphics performance. The picture below shows that two graphics cards are linked in parallel in an SLI configuration.



3. Software Installation

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

The installation of 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 instructions to setup your graphics card driver. (Please follow the subsection "3.1.3 Driver Installation" to install the driver for your graphics card.)

3.1. Windows® XP Driver and Utilities Installation

3.1.1. Operating System Requirements

Notice the following guidelines before installing the drivers:

- 1. First make sure your system has installed DirectX 9.0c or later version.
- Make sure your system has installed the appropriate motherboard drivers (for the motherboard drivers, please contact the motherboard manufacturer.)

3.1.2. DirectX Installation

Install Microsoft DirectX to enable 3D hardware acceleration support for Windows XP to achieve better 3D performance.



For software MPEG support in Windows XP, you must install DirectX first. Users who run Windows XP with Service Pack 2 or above do not need to install DirectX separately.

Install DirectX 9 item.



Step 1. When the autorun window shows up, click the



Step 2. Choose I accept the agreement and click the Next button.



Step 3. Click the Next button.



The system is installing the components.



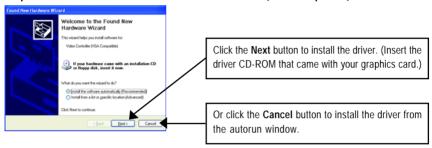
Step 4. Click **Finish** to restart computer. Then the DirectX 9 installation is completed.

3.1.3. Driver Installation

A. New Hardware Found

When the graphics card is inserted into your computer for the first time, the operating system will detect the graphics card automatically and display a New Hardware Found message. The following are step-by-step installation instructions.

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-ROM into your CD-ROM drive. The autorun window will appear. If it does not show up, please run "D:\setup.exe".



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



Step 2. Click the Next button.



NVIDIA Wendows XP Display Drivers

The system is installing the components.

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

3.1.4. GIGABYTE Gamer HUD on Driver CD

Insert the driver CD-ROM into your CD-ROM drive. The autorun window will appear. If it does not show up, please run "D:\setup.exe". (If D is not your CD-ROM drive, substitute D with the correct drive letter.)



Step 1. When autorun window shows up, click the **GIGABYTE Gamer HUD** item.



Step 2. Choose the language for the installation and click the **OK** button.



Step 3. Click the Next button.



Step 4. Click the Install button.



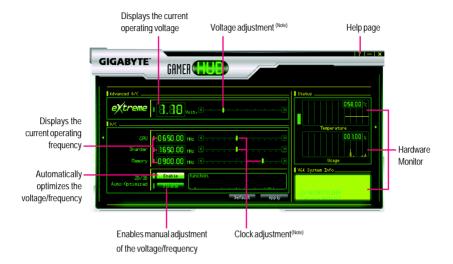
The system is installing the components.



Step 5. Click the **Finish** button. Then the installation of the GIGABYTE Gamer HUD is completed.

GIGABYTE Gamer HUD

The GIGABYTE Gamer HUD allows you to adjust the voltage of your graphics card and the working frequency of the GPU, Shader, and video memory.



Button	Function
Default ^(Note)	Allows you to load the default settings
Apply ^(Note)	Allows you to save the values you adjust
Enable	Lets the utility optimize the voltage and GPU/Shader/memory frequency
	settings
Disable	Allows you to manually configure the voltage and GPU/Shader/Memory
	frequency settings
Hardware Monitor	Displays the GPU usage and temperature, the GPU usage/thermal curve,
	and your graphics card information
?	Opens Help page



Incorrectly doing overclock/overvoltage may result in damage to your system and reduce the useful life of the system components.

(Note) This item is configurable only if 2D/3D Auto-Optimized is set to Disable.

3.1.5. Taskbar Icon

After installing the graphics card driver, you will find an NVIDIA icon on in your system tray. Click this icon to open the control panel.



Right click the NVIDIA icon to enter the NVIDIA Control Center.



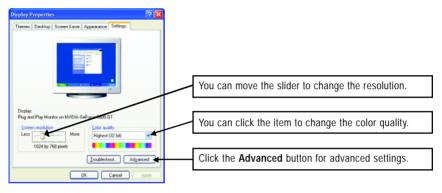
You can adjust the properties of the graphics card here.

3.1.6. Display Properties Pages

To access **Display Properties** pages, right-click on desktop and then select **Properties**. The **Display Properties** dialog box shows the information of display adapter, color, the range of display area, and the refresh rate.

Settings (Resolutions and Color Quality for Windows)

You may adjust the screen resolution and color quality settings in this dialog box.



NVIDIA Control Panel

After pressing the **Advanced** button in **Settings**, you'll see the **Plug and Play Monitor and NVIDIA GeForce 8800 GT Properties** dialog box. Click the **GeForce 8800 GT** tab. (You can also click the NVIDIA icon in your system tray and select **NVIDIA Control Panel**.)



Access the **GeForce 8800 GT** tab page to launch the NVIDIA Control Panel

All of the NVIDIA control panels have been consolidated into a single application, the NVIDIA Control Panel. Click the Start the NVIDIA Control Panel button to open the NVIDIA Control Panel.



Select the view of the NVIDIA Control Panel that is most appropriate for you.

- Standard Settings
- Advanced Settings

The following pages provide details on configuring advanced settings.



In the NVIDIA Control Panel, select a category to alter specific NVIDIA display settings.

The categories are:

- 3D Settings
- Display
- Video & Television



In the NVIDIA Control Panel, change a view if you want.

The supported modes are:

- Standard
- Advanced
- Custom

3D Settings

Tasks in the 3D Settings pages allow you to do the following:

- Change the image and rendering settings of your 3D applications and games that utilize Direct3D and OpenGL technology.
- Override the shipped clocked frequencies of your GPU and GPU memory to increase your GPU performance.
- Assign specific 3D settings to a game so that these settings automatically load when a game is launched.

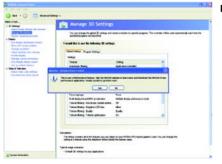


Adjust Image Settings with Preview If you are unfamiliar with 3D technology or not an advanced graphics user, use the Adjust Image Settings with Preview page to preview any changes you make for improved image quality and rendering.



■ Manage 3D Settings (Note)

The Manage 3D Settings page enables you to establish default 3D settings to use for all your Direct3D or OpenGL applications and to establish a unique set of 3D settings for a particular game or application.



■ Monitor Temperature Levels

To monitor the current temperature of your NVIDIA GPU using NVIDIA nTune utility, please visit NVIDIA's official web site for more information about nTune.

(Note) This item is present only in Advanced view mode.

Display

A variety of display features enable you to further manipulate and configure your display settings to optimize the use of your displays. Tasks in the Display pages allow you to do the following:

- · Run display optimization wizard
- · Move CRT screen position
- · Change resolution
- · Adjust desktop color settings
- · Rotate display
- Manage custom resolutions (Note 1)
- Run multiple display wizard (Note 2)
- · Set up multiple displays



Run Display Optimization Wizard
 This wizard helps you adjust your displays for optimal viewing and repersentation of colors.

(Note 1) This item is present only in Advanced view mode. (Note 2) This item will show up when you connect two monitors.



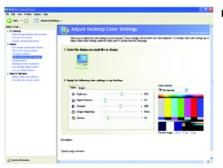
Move CRT Screen Position

You can use your mouse (by clicking on the arrow keys on this page) or the arrow keys on your keyboard to adjust the position of your desktop to better fit your display. This is a useful alternative to using the controls (buttons) on your actual physical display.



Change Resolution

Using the Change Resolution controls, you can change the color setting, reduce screen flickering, or adjust the amount of information appearing on your display.



Adjust Desktop Color Settings

Use this page to set the contrast, sharpness, and color depth (Digital Vibrance) of the images on your desktop. These changes will not affect any video playback. To change video color settings, go to Adjust Video Color Settings under the Video and TV section from the Start page.



Rotate Display

The NVIDIA Rotate features enable you to change the orientation of your desktop to portrait, landscape, and inverted modes. This is useful if you have rotated your physical display and need to rotate the desktop to match the orientation of your display.



■ Manage Custom Resolutions (Note 1)

If you are an advanced user, you can create custom timing modes with the width, height, bit-color depth, and the refresh rate etc. The Advanced Timing page enables you to adjust timings for your graphics card in order to support a variety of different display timings for ultimate flexibility for analog CRT and DVI connections. You can use the advanced Change Resolution Attributes page to view custom display modes you have saved in the Create Custom Resolutions page.



Run Multiple Display Wizard (Note 2)
This wizard will help you enable and customize your multi-display setup.

(Note 1) This item is present only in Advanced view mode.

(Note 2) This item will show up when you connect two monitors.



Set up Multiple Displays

NVIDIA nView technology enables you to view your desktop in one of several multi-display modes to make the best use of the displays (monitors) that are connected to your computer.

Dual-Monitor Setup

You can set the display to output from two monitors on the Change Display Configuration page.



Select your preferred nView display modes here.

- Only use one display (Single)
- · The same on both display (Clone)
- As one large horizontal desktop (Horizontal span)
- As one large vertical desktop (Vertical span)
 - Configured independently from each other (Dualview)

(1) The same on both display (Clone)

Clone mode indicates that both displays in the display pair show images of the same desktop.



(2) As one large horizontal desktop (Horizontal span)

Horizontal Span mode indicates that both displays in the display pair function as one wide virtual desktop. The width of each display is half the width of the total virtual desktop width.



Horizontal Span Mode

(3) As one large vertical desktop (Vertical span)

Vertical Span mode indicates that both displays in the display pair function as one tall virtual desktop. The height of each display is half the height of the total virtual desktop height.



Vertical Span Mode

(4) Configured independently from each other (Dualview)

Dualview mode indicates that both displays in the display pair function as one virtual desktop. Unlike Horizontal Span or Vertical Span mode, Dualview treats each display as a separate device. This means that the taskbar will not be stretched across displays and 3D applications are not accelerated as efficiently as when the application spans displays.



Dualview Mode

Display	Model	GV-NX88T512H(P)	GV-NX88(96)G384H	GV-NX88T256H
Matrix	CRT+TV	Yes	Yes	Yes
	CRT+DVI	Yes	Yes	Yes
	DVI+TV	Yes	Yes	Yes
	DVI+TV+CRT	No	No	NO
	DVI +DVI	Yes	Yes	Yes
	CRT+CRT	Yes	Yes	Yes

Video & Television

Video and television features are similar to those for analog and digital displays and include features specific to television and HDTV (high definition television) technology for optimal viewing. Tasks in the Video & Television pages allow you to do the following:

- Adjust your television picture quality and video color settings for the best possible viewing in its
 environment.
- Change the position and size of the desktop video to best fit your television or HDTV (high definition television) screen.
- Change the signal format to use for your standard television or HDTV as well as change countryspecific signal or the HDTV format.
- · Enable full screen video mirroring.



Adjust Video Color Settings

Use the controls on this page to fine tune the color settings for video content on your display. Select one of the test images to monitor your changes. For best results, play a video while you make adjustment to view the changes as they happen.



Run Television Setup Wizard (Note)

The wizard will guide you through the steps to configure your television for use with your computer.

(Note) This item will show up when you connect a television.

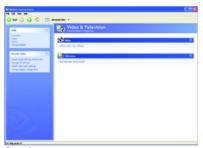
HDTV Setup

Follow the steps below to connect an HDTV to your system using the included component video adapter.



Step 1:

Connect the HDTV component cable to the adapter according to the corresponding color. (Y= Green, Pr= Red, Pb= Blue). Connect the TV Out cable from the adapter to the TV Out port on your graphics card.



Step 2:

Go to NVIDIA Control Panel. Select the Run television setup wizard (Note) item in the Video & Television page.



Select Component in the Connector Type screen



Step 3:

When the Television Setup Wizard appears, click **Next**.



Step 5:

Select a definition type for your HDTV (depending on the specifications of your HDTV) and click **Next**.

(Note) This item will show up when you connect a television.



Step 6: Click the **Preview** button to preview the selected settings. Then click **Next**.



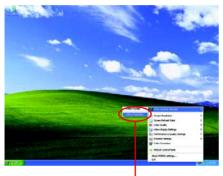
Click **Finish** to apply the new television settings.

3.1.7. nView Properties Pages (Note)

nView is a set of desktop tools designed to help you be more productive when using your graphics card. With **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.

Enabling the nView Desktop Manager Features:

Click the NVIDIA icon in your system tray and select nView Properties under nView Destop Manager. Click the Enable button to turn on all the nView Desktop Manager features.



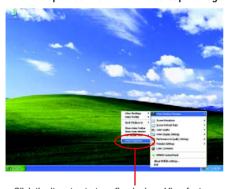
Step 1: Click nView Properties.



Step 2: Click Enable.

Accessing the nView Properties Pages:

To access the **nView** properties page, you can click the NVIDIA icon on in your system tray and select **nView Properties** under **nView Desktop Manager**.



Click the item to start configuringing nView features.

(Note) This item will show up when you connect two monitors.

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 of all nView display settings for easy software setup.

nView Windows properties



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

nView Applications properties



 This tab allows you to control nView settings depending on different applications.

nView Desktops properties



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

nView User Interface properties



■ This tab allows for 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 enable 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.

4. Troubleshooting Tips

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

- Check that the card is seated properly in the PCI Express x16 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 install the graphics driver.
- Restart your computer.
 - Press <F8> on your keyboard after system starts up. When the Windows Advanced Options Menu appears, select Safe Mode and press <Enter>.
 - After getting into Safe Mode, in Device Manager check whether the driver for the graphics card is correct.
- For more assistance, use the Troubleshooting Guide located in the Windows Help or contact your computer manufacturer.



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

5. Appendix

5.1. How to Reflash the BIOS in MS-DOS Mode

- 1. Extract the downloaded Zip file to your hard disk(s) or floppy disk. This procedure assumes drive A.
- Restart the computer in MS-DOS mode. (You may need a startup disk to restart the computer in MS-DOS mode.)
- 3. Change the command prompt to A:\>.
- 4. To back up the current BIOS, at the A:\> prompt, type[BIOS flash utility name] -s [BIOS file name] (example: gvf19 -s x88t5hp.f1) and press Enter.
- 5. To flash BIOS, at the A:\> prompt, type[BIOS flash utility name] -p [BIOS file name] (example: gvf19 -p x88t5hp.f2) and press Enter.
- 6. Wait until it's done, then restart your computer.

5.2. Resolutions and Color Depth Tables (In Windows XP)

GeForce 8800/9600 Single Display Standard 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	60~75	✓	✓	✓
320 x 240	60~75	✓	✓	✓
400 x 300	60~75	✓	✓	✓
480 x 360	60~75	✓	✓	✓
512 x 384	60~75	✓	✓	✓
640 x 400 (16:10)	60~75	✓	✓	✓
640 x 480	60~240	✓	✓	✓
720 x 480	60	✓	✓	✓
720 x 576	50~60	✓	✓	✓
800 x 600	60~240	✓	✓	✓
848 x 480	60~240	✓	✓	✓
960 x 600 (16:10)	60~240	✓	✓	✓
1024 x 768	60~200	✓	✓	✓
	240	\checkmark	\checkmark	Χ
1088 x 612 (16:9)	60~200	✓	✓	✓
	240	\checkmark	\checkmark	Χ
1152 x 864	60~170	✓	✓	✓
	200	\checkmark	✓	Χ
1280 x 720 (16:9)	60~150	✓	✓	✓
	170	\checkmark	\checkmark	Χ
1280 x 768	60~150	✓	✓	✓
	170	\checkmark	\checkmark	Χ
1280 x 800	60~150	✓	✓	✓
	170	\checkmark	\checkmark	Χ
1280 x 960	60~150	✓	✓	✓
	170	\checkmark	\checkmark	Χ
1280 x 1024	60~150	✓	✓	✓
	170	✓	✓	Χ
1360 x 768	60~150	✓	✓	✓
	170	✓	✓	Χ
1600 x 900 (16:9)	60~120	✓	✓	✓
	140~150	\checkmark	✓	Χ
1600 x 1024	60~100	✓	✓	✓
	120	✓	✓	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 1200	60~100	✓	✓	✓
	120	\checkmark	\checkmark	Χ
1920 x 1080 (16:9)	60~85	✓	✓	✓
	100	\checkmark	\checkmark	Χ
1920 x 1200 (16:10)	60~85	✓	✓	✓
	100	\checkmark	\checkmark	Χ
1920 x 1440	60~85	✓	✓	✓
2048 x 1536	60~85	✓	✓	✓
2560 x 1600	60	✓	✓	✓
(Dual-Link)				

^{*} This table is for reference only. The actual resolutions supported depend on the monitor you use.

Regulatory Statements

Regulatory Notices

This document must not be copied without our written permission, and the contents there of must not be imparted to a third party nor be used for any unauthorized purpose. Contravention will be prosecuted. We believe that the information contained herein was accurate in all respects at the time of printing. GIGABYTE cannot, however, assume any responsibility for errors or omissions in this text. Also note that the information in this document is subject to change without notice and should not be construed as a commitment by GIGABYTE.

Our Commitment to Preserving the Environment

In addition to high-efficiency performance, all GIGABYTE motherboards fulfill European Union regulations for RoHS (Restriction of Certain Hazardous Substances in Electrical and Electronic Equipment) and WEEE (Waste Electrical and Electronic Equipment) environmental directives, as well as most major worldwide safety requirements. To prevent releases of harmful substances into the environment and to maximize the use of our natural resources, GIGABYTE provides the following information on how you can responsibly recycle or reuse most of the materials in your "end of life" product.

Restriction of Hazardous Substances (RoHS) Directive Statement

GIGABYTE products have not intended to add and safe from hazardous substances (Cd, Pb, Hg, Cr+6, PBDE and PBB). The parts and components have been carefully selected to meet RoHS requirement. Moreover, we at GIGABYTE are continuing our efforts to develop products that do not use internationally banned toxic chemicals.

Waste Electrical & Electronic Equipment (WEEE) Directive Statement

GIGABYTE will fulfill the national laws as interpreted from the 2002/96/EC WEEE (Waste Electrical and Electronic Equipment) directive. The WEEE Directive specifies the treatment, collection, recycling and disposal of electric and electronic devices and their components. Under the Directive, used equipment must be marked, collected separately, and disposed of properly.

WEEE Symbol Statement



The symbol shown below is on the product or on its packaging, which indicates that this product must not be disposed of with other waste. Instead, the device should be taken to the waste collection centers for activation of the treatment, collection, recycling and disposal procedure. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a

manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local government office, your household waste disposal service or where you purchased the product for details of environmentally safe recycling.

- When your electrical or electronic equipment is no longer useful to you, "take it back" to your local
 or regional waste collection administration for recycling.
- If you need further assistance in recycling, reusing in your "end of life" product, you may contact us
 at the Customer Care number listed in your product's user's manual and we will be glad to help you
 with your effort.

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Finally, we suggest that you practice other environmentally friendly actions by understanding and using the energy-saving features of this product (where applicable), recycling the inner and outer packaging (including shipping containers) this product was delivered in, and by disposing of or recycling used batteries properly. With your help, we can reduce the amount of natural resources needed to produce electrical and electronic equipment, minimize the use of landfills for the disposal of "end of life" products, and generally improve our quality of life by ensuring that potentially hazardous substances are not released into the environment and are disposed of properly.

China Restriction of Hazardous Substances Table

The following table is supplied in compliance with China's Restriction of Hazardous Substances (China RoHS) requirements:



关于符合中国《电子信息产品污染控制管理办法》的声明 Management Methods on Control of Pollution from Electronic Information Products (China RoMS Declaration)

产品中有毒有害物质或元素的名称及含量

	Hazardous	s Substand	ces Table			
		有毒有害	物质或元	素 (Hazardou:	s Substance	s)
部件名称(Parts)	铅(Pb)	汞 (Hg)	镉(Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
PCB板 PCB	0	0	0	0	0	0
结构件及风扇 Mechanical parts and Fan	×	0	0	0	0	0
芯片及其他主动零件 Chip and other Active components	×	0	0	0	0	0
连接器 Connectors	×	0	0	0	0	0
被动电子元器件 Passive Components	×	0	0	0	0	0
线材 Cables	0	0	0	0	0	0
焊接金属 Soldering metal	0	0	0	0	0	0
助焊剂,散热膏,标签及其他耗材 Flux,Solder Paste,Label and other Consumable Materials	0	0	0	0	0	0

○:表示该有毒有害物质在该部件所有均质材料中的含量均在SJ/T11363-2006标准规定的限量要求以下。 Indicates that this hazardous substance contained in all homogenous materials of this part is below the limit requirement SJ/T 11363-2006

X:表示该有毒有害物质至少在该部件的某一均质材料中的含量超出SJ/T11363-2006标准规定的限量要求。 Indicates that this hazardous substance contained in at least one of the homogenous materials of this part is above the limit requirement in SJ/T 11363-2006

对销售之日的所受售产品,本表显示我公司供应链的电子信息产品可能包含这些物质。注意:在所售产品中 可能会也可能不会含有所有所列的部件。

This table shows where these substances may be found in the supply chain of our electronic information products, as of the date of the sale of the enclosed products. Note that some of the component types listed above may or may not be a part of the enclosed product.