GV-R7032T/GV-R7064T RADEON™ 7000 Graphics Accelerator

USER'S MANUAL 中文使用手冊

> REV. 1.02 12MD-R7064T-102

User's Manual

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Due to rapid change in technology, some of the specifications might be out of date before pwblicution of this booklet.

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Jul. 03, 2003 Taipei, Taiwan

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English

1.INTRODUCTION

1.1. PREFACE

GV-R7032T/GV-R7064T delivers enhanced 3D and 2D graphics performance for today's demanding applications. Powered by the ATi RADEON™ 7000 graphics processor and 32 / 64 MB DDR memory; GV-R7032T/GV-R7064T features HYPER Z™ technology to increase effective memory bandwidth and PIXEL TAPESTRY™ for fast image rendering. GV-R7032T/GV-R7064T has industry leading, built-in DVD playback capability.

1.2. KEY FEATURES

- Powered by the RADEON[™] 7000 graphics processor
- ATI HYPER Z[™] technology reduces memory bandwidth consumption resulting in improved 3D performance
- Incredible 3D graphics performance with ATI PIXEL TAPESTRY[™] 3D rendering engine
- 32MB DDR,64MB DDR
- Silver HeatSink Onboard
- Supports DirectX® and OpenGL®
- DVD playback with integrated motion compensation and iDCT
- Supports 3D resolutions (32-bit color) up to 2048x1536
- AGP universal bus (for AGP 2X/4X systems)
- Support TV-OUT (S and AV connector) Function

2.HARDWARE INSTALLATION

2.1. UNPACKING

The GV-R7032T/GV-R7064T package contains the following:

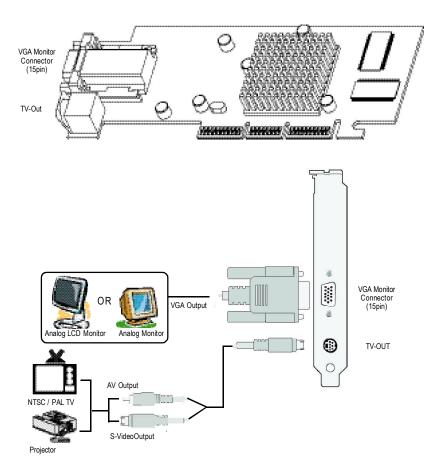
- The GV-R7032T/GV-R7064T graphics accelerator
- This USER'S MANUAL
- DVD Player software included
- CD for driver & Utilities

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. BOARD LAYOUT

GV-R7032T (32MB DDR) GV-R7064T (64MB DDR)



GV-R7032T/GV-R7064T Graphics Accelerator - 6 -

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.

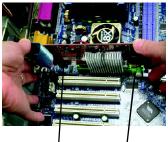


English





 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.



Graphics card

AGP Slot

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



 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...





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: Picture below are shown in Windows XP

3.1. WINDOWS®98 /98SE or WINDOWS ME /WINDOWS 2000 or WINDOWS XP DRIVER AND UTILITIES INSTALLATION

The installation of Win 98/98SE / 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 guides to setup your GV-R7032T/GV-R7064T driver (Please follow the subsection 3.1.3 "Step By Step Installation" to install the driver for your GV-R7032T/GV-R7064T graphics accelerator.

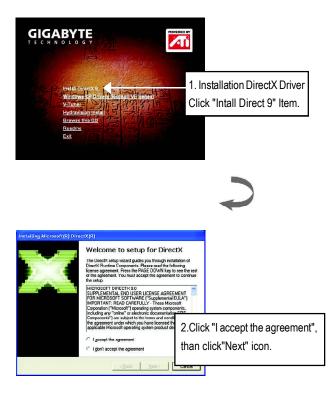
3.1.1.Operating system requirement

- If your OS is Microsoft Windows, when loading the GV-R7032T/GV-R7064T drivers for the system, please make sure your system (Win 98/98SE or Win ME / Win2000 / Win XP) has installed DirectX or later.
- If you install the GV-R7032T/GV-R7064T drivers for the mainboard, which consist of SIS, ALI or VIA chipsets, please install the appropriate Driver program for that mainboard. Or please contact your motherboard nearest dealer for M/B Diver.

3.1.2. DirectX Installation

Install Microsoft DirectX (or later version) 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 (or later version) first.

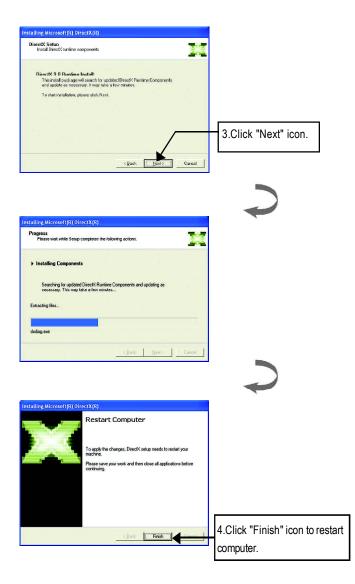




DirectX 9.0 is the up-to-date runtime library for all Windows operating system. This version is capable of updating your DirectX of your operating system to what is required for your graphics accelerator hardware to run to its best performance.

For example, if your graphics accelerator can support DirectX 8.1, updating with DirectX 9.0 can upgrade your operating system to the fullset of DirectX 8.1.

GV-R7032T/GV-R7064T Graphics Accelerator - 10 -



English

3.1.3.Driver Installation

The following is the step-by-step installation guide.

Step 1: New Hardware Found

After **GV-R7032T/GV-R7064T** 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. Please select "Do not install a driver" and press OK.

Step 2: Update Device Driver Wizard: Standard PCI Graphics Adapter(VGA)

Update Device Driver \	Wizard	
	This wizard will complete the installation of:	
	Standard PCI Graphics Adapter (VGA)	
	by searching your local drives, network, and Internet locations for the most current driver.	
	If you have a disk or CD-ROM that came with this device, insert it now	· · · · · · · · · · · · · · · · · · ·
	It is recommended that you let Windows search for an updated driver. To do this, click Next to continue.	1.Click "Next" icon.
Ś		
		● Don't click "Cancel", because
	<u> ≪ B</u> ack Next > Cancel	the system will hang if you press it.

Step 3: Update Device Driver Wizard: Finish

At this time, system will ask for your Windows CD in order to complete the VGA driver installation.

If you don't have the CD, you can press C:\Windows\System directory.

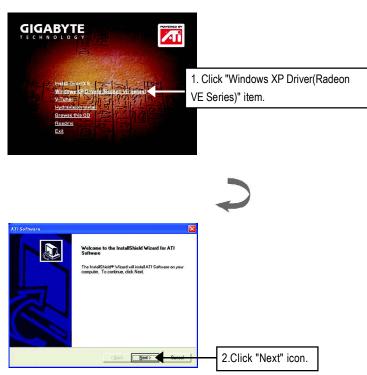
Step 4: System Setting Change

Update Device Driver	√izard	
	Windows found the following updated driver for this device:	
	Standard PCI Graphics Adapter (VGA)	
	If you want to use this driver, click Finish. If this is not the correct driver and you want to search for a different driver manually, click Other Locations.	
🗞 🌚	Location of Driver	
		⊂iniah‼iaan
\sim	<u> <u> </u> <u> </u> <u> </u> <u> </u> ther Locations <u> </u> 2. UIICK</u>	Finish" icon.
	< Back Finish Cancel	

System 9	Settings Change 🛛 🕅		
?	To finish setting up your new hardware, you must restart your computer.		
	Do you want to restart your computer now?	 3.Click "NO" icon.	
	Yes		

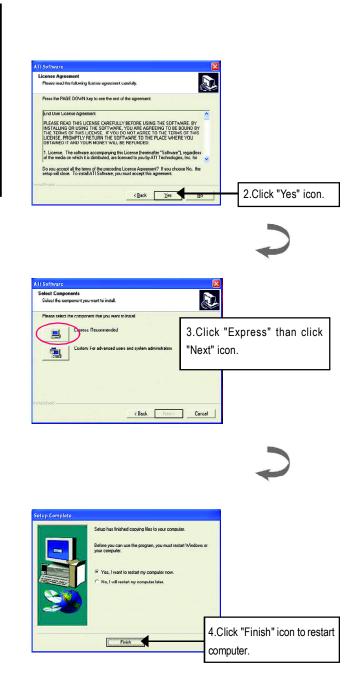
After the system has finished loading, insert the GV-R7032T/GV-R7064T driver CD disk into your CD-ROM, and then you can see the AUTORUN window. If it does not show up, please run "D:\setup.exe".

Step 5: Driver Setup



Software Installation

English



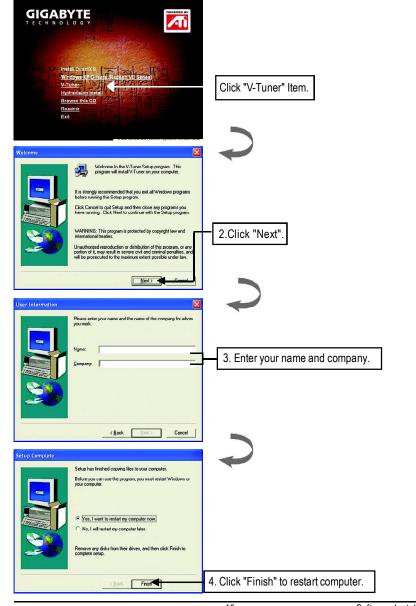
English

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3.1.4.Utilities on driver CD

The utilities include Display Driver and V-Tuner utilities. Please browse the driver CD for detail. Other Utility (V-Tuner and Hydravision)

A.Installing V-Tuner Utility

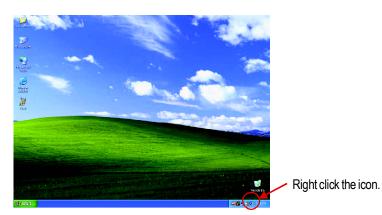


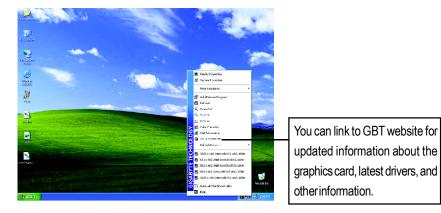
Software Installation

3.1.5 Taskbar Icon

After installation of the display drivers, you will find an GBT icon **G** on the taskbar's status area. Rightclicking this icon opens the GBT control panel, showing a menu composed of shortcute of the graphics card's enhanced and other functions.

You may click the "Display Properties" item, and then click Settings. Click "Advanced" after clickng Settings. Click the appropriate tab to change your display settings.





V-Tuner (Overclock Utility)

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



VGA Info

VGA Info lists the relevant information about your card.

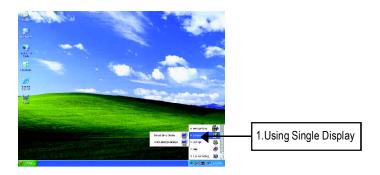
It Format GA Info 🔠 🔝 Color Adjust		
DISPLAY INFORMATION		
DISPLAT INFORMATION		
Chip Vendor:	ATI	
Chip Type:	Radeon VE (R10	U/Radeon/UUU)
Model Name	R7064T	
Bus Type:	AGP Bus	
AGP Speed	1X Rate	
MAINBOARD INFORMATI	DN	
CPU Vendor:	Intel	
System Total Me	mory: 130,544 KB	
System Free Mer	nory: 35,328 KB	
		K Ca

Color Adjust

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

		Color Select Color All Color C Red Color C Green Color C Blue Color	
- Adjust	Display Color Setting Brightness: Contrast: Gamma:	s → 0 → 0 → 1.00	
	[Default Hardware Color settin	g

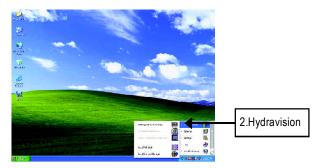
After installation of the display drivers, you will find an ATi icon an the taskbar's status area. Clicking this icon open the ATi control panel.



<u>HYDRAVISION</u>[™]

HYDRAVISION[™] and the Desktop Manager are activated whenever Windows[®] starts. Installing HYDRAVISION[™] adds menu options to the ATI Icon.

Click on the ATI icon to access the application's features and help, or to unload the HYDRAVISION[™] Desktop Manager.



HYDRAVISION[™] is primarily software designed for multiple monitor settings. RADEON 7000 graphic cards that have more than one display output can benefit fully from this software. A RADEON 7000 with only one display output can still take advantage of the many features of HYDRAVISION[™].

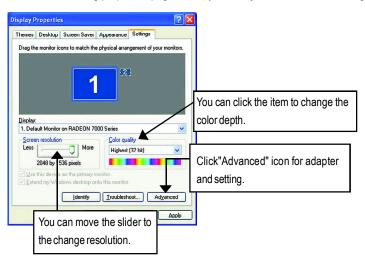
HYDRAVISION[™] installation enables the Desktop Manager and creates a Windows[®] program group for HYDRAVISION[™] display management software.

3.1.6.Display Property pages

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

Setting (Resolutions and Color depth for windows)

The Setting properties page allows you to adjust the Direct 3D settings



Options Properties



- Version Information provides the Catalyst version number, 2D version number and the driver build information.
- Details button access to the Details tab which lists the card's hardware details and driver information.
- Re-activate all warning messages allows you to reactivate any disabled graphics warning messages.
- Enable ATI taskbar icon application enables or disables the ATI taskbar icon. However, this feature must be enabled for ATI hotkey support.
- Show ATI icon on taskbar adds or removes the ATI icon from the taskbar.
- Disable quick resolution feature is accessible by left-clicking the ATI icon in the taskbar.
- Reduce DVI frequency on high-resolution displays enables or disables to reduce the DVI frequency when using high-resolution.

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OpenGL Properties:

The OpenGL properties page gives you complete control of the OpenGL settings.

An Options	📶 Our	alaşı.	4	SMARTGAR	AT (ten)
General Adapt	er Monitor		bleshoot	Color Ma	nagement
M Displays	Color	10	OpenGL	M (Direct3D
lain Settings				-	· · ·
	1			Oper	nGL
x-Performance	Balanced G	luaily 🕫	ΓQ	istom Settings	
ustom Settings Anisotropic Filtering					
Application Pref	evence (16×			
Apti-aliasing					
Disabled		ples :	Patton	nance 🖉 🗋	Lishty .
Maximum Resolution			24		100
			<- Perfo	emance Qua	aRy⇒
Texture Preference:	Qualit	9	7		
Minman Detail Level					
Mipmap Detail Level	High Qu	abty-	1	а к	-{
Wait for Vertical Sync:	Default	Off	-	1.	-
		Compa	ibiliy Settin	cs] De	faults

Main Settings slider

Moving the slider to the left will maximize application performance, while moving the slider to the right will provide excellent 3D image quality. Moving this slider from one position to the next changes the individual Custom Settings sliders found below.

• Custom Settings checkbox

When **Custom Settings** is checked, the Main Settings slider is disabled, allowing you to move each individual slider in the Custom Settings section below. Setting the individual

sliders gives you complete control over your application experience. Using Custom Settings is recommended for advanced users only.

- Anti-Aliasing checkbox improves image quality by removing jagged edges from 3D images, resulting in smoother, more natural looking objects.
- Anti-Aliasing slider can be applied using different sample patterns and sample points such as 2X, 4X, or 6X. Moving this slider to the right increases sampling to provide the most realistic 3D image.
- Anisotropic Filtering checkbox uses a texture filtering technique that blends multiple texture samples together. Selecting Application Preference will result in high quality textures, with a negligible reduction in the application's performance.
- Anisotropic Filtering slider By moving this slider to the right, as the number of samples taken increases, the quality of the final image increases significantly. 16X provides extremely detailed, crisp-looking images as a result of the largest number of texture samples possible.

Texture Preference slider

Selecting this decides whether your application should use high quality or high performance textures. Moving the slider to the right delivers the highest quality experience. Moving the slider to the left emphasizes a high performance solution while still providing good visuals.

Mipmap Detail Level slider

This will allow you to choose the texture quality of the mipmaps the application will use. Mipmaps are a collection of different sized textures of the same image. As the user moves closer to a 3D object the image quality should increase, requiring a higher quality texture of the same image. The base mipmap is the highest quality texture, and all subsequent mipmaps are smaller sized textures of the same image. Moving the slider to the right selects a higher quality base mipmap, delivering the highest quality application experience. Moving the slider to the left selects a lower quality mipmap, delivering the highest application performance.

Wait for Vertical Sync

This will lower the frame rate of full screen games but reduce the image tearing that can occur with the higher frame rate. Selecting **Application Preference** allows the application to decide whether or not it should display its frames at the refresh rate of the monitor. Selecting **Always Off** allows the application to run at its highest possible frame rate, regardless of the monitor's refresh rate which is typically less than the frame rate at which the application will run.

Compatibility Settings button

This button allows you to access advanced settings that can solve compatibility issues for a few specific OpenGL applications.

ettings	OpenGL
Force Z-buller depth	
	C Eoroo 24 bit
	G Forge 16-bit
	Disabled
Alpha dithering method	
	Error diffusion
	C Ordered
Support KTX buffer region	extension
	C Engbled
	Disabled
	Defaults
	Derauks

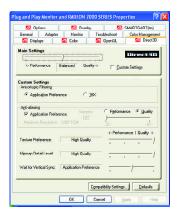
- Force Z-buffer depth allows you to explicitly set the Z-Buffer depth. Most applications will work best when Disabled is selected.
- Alpha dithering method
- Support KTX buffer region extension Enabling this feature allows rapid updates of those portions
 of your screen that have changed. Note that most applications will not be affected by activating this
 feature.
- Defaults button allows you to reset the OpenGL Compatibility Settings to default values.
- Defaults button

This button allows you to reset the OpenGL Settings to default values.

English

Direct 3D Properties:

The Direct 3D properties page allows you to adjust the Direct 3D settings.



Main Settings slider

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- Anisotropic Filtering
 - Anti-Aliasing checkbox improves image quality by removing jagged edges from 3D images, resulting in smoother, more naturallooking objects. Selecting Application Preference will result in high quality images, with negligible reduction in the application's performance.
 - Anti-Aliasing slider can be applied using different sample patterns and sample points such as 2X, 4X, or 6X. Moving this slider to the right increases sampling to provide the most realistic 3D image.
 - Anisotropic Filtering checkbox uses a texture filtering technique that blends multiple texture samples together. Selecting Application Preference will result in high quality textures, with a negligible reduction in the application's performance.
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irect3D Compatibility Settings	
recise compatibility settings	
Settinas	
	Direct3D
Support W-buffer	
	C Enabled
	 Disabled
Support 32-bit Z-buffer dep	di .
	C Enabled
	Disabled
Alpha dithering method	
	Error diffusion
	C Ordered
Support DXT texture forma	ts
	Enabled
	C Digabled
Alternate pixel center	
	C Enabled
	Disabled
	Defaults

typically less than the frame rate at which the application will run.

- Compatibility Settings button This button allows you to access advanced settings that can solve compatibility issues for a few specific Direct 3D applications.
- Support W-buffer
- Support 32bit Z-buffer dephth
- Alphe dithering method
- Support DTX texture formats allows applications to use this kind of texture format. There are a few applications that can only support a limited number of texture formats. By selecting Disabled, the

driver will not support DTX texture formats, thus reducing the number of texture formats supported.

- Alternate pixel center This may eliminate problems with some Direct 3D games which display
 vertical and horizontal lines around textures, or text that appears incorrect. However,
 this setting should only be used if you are experiencing the symptoms mentioned, as it may
 cause problems with other games.
 - Defaults button allows you to reset the Direct 3D Compatibility Settings to default values.

Defaults button

This button allows you to reset the Direct 3D Settings to default values.

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Color Properties:

The Color 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.

mend Adeder Horder Trodeletion Colle Managemen G Diglager G2 Color G2 Dipercit. G2 Direct20 C Daskoo Polities for Desixtoo Ser- C Fyld Scener 30 Desixtoo Ser- Dipercit P 44DAva: C final C Scener C Silve Report
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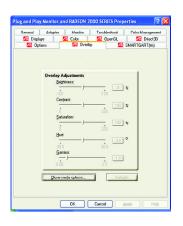
- Desktop increases or decreases the color brightness of your desktop. The higher the gamma value, the higher the brightness and contrast of your display.
- Full Screen 3D Note that changes to Full Screen 3D settings will only be apparent within the Full Screen 3D application environment.
- All Color adjusts the selected color (red, green or blue) by moving the color curve with your mouse.
- Red / Green / Blue sliders These controls allow you to increase or decrease the color brightness of Direct 3D and OpenGL games played in fullscreen mode.
 - (NOTE: Game Gamma is NOT supported in Windows NT4.0)
- Gamma accesses Game Gamma properties.
- Default resets the desktop brightness and color settings to the default values.

Overlay Properties

The Overlay Properties is used to adjust the Brightness / Contrast / Saturation / Hue /

Gammasettings.

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.



Overlay Adjustments

- Brightness allows you to adjust the brightness of the video image.
- Contrast allows you to adjust the contrast in the video image.
- Saturation allows you to adjust the vividness of the color. Sliding it all the way to the left removes all color and produces a black and white picture.
- Hue allows you to adjust the pureness or tint of the red, green and blue components of the color.
- Gamma allows you to adjust the overall intensity of the video image.
- Difaults button allows you to reset the Overlay settings to default values.

SMARTGART(tm) Properties:

The SMARTGART[™] Properties ensures system stability by automatically performing a variety of bus tests that determine your optimal graphics accelerator settings. Changing these settings might result in system instability.

Renetal Adapter		Teachleshoot	Color Managemen
Displays	Color	OpenGL	SMARTGART(tm)
AGP Settings) ensures system stability is that determine your o g these settings could g the set the setting could g the setting could b the g th	ptimal graphics a result in system in Current AGF	ccelerator
		E	elest Al

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Display Properties:

If you VGA card is equipped with a S-Video connector , you can use a second output device (e.q. a TV or a computer monitor) as part of your operating desktop extending your desktop to second device or copying your desktop on the second device.



Plug and Play Monitor and RADICN 7000 SIRIS Properties

Select Display Type

Enable /Disable"Extend my windows desktop onto this monitor

The Display tab provides the multi monitor features. Here you can enable/disable display devices and swap the assignment of **Primary** and **Secondary** displays.

Connecting your graphics card to a TV or VCR

Turn off your computer and your television (or VCR).

Ensure your graphics card is installed correctly.

For information about placing the card in your computer and installing the enhanced graphics driver, see the user's manual.

Determine if your television (or VCR) has an S-Video or Composite video connection. Looking at the back of your computer, locate your graphics card. Using an S-Video cable or the supplied adapter cable, attach one end of the cable to your graphics card and the other to your television (or VCR).

3.2. WINDOWS 2000 DRIVER INSTALLATION

Please make sure the Windows NT 2000 have installed Windows [®] 2000 Service Pack version 2 (or later) before installing the graphics accelerator driver. With Windows [®] 2000 running on your computer, you need to install the GV-R7032T/GV-R7064T driver to take advantage of the higher performance, resolutions, and special graphic features of the Graphics card. To ensure you install the latest driver, use the Installation CD that shipped with your Graphics card.

To install the GV-R7032T/GV-R7064T driver for Windows [®] 2000

- Insert the INSTALLATION CD into your CD-ROM drive. If Windows[®] runs the CD automatically.
- 2. Click Start.
- 3. Select Run.
- 4. Type the following: D:\SETUP
 - (If D is not your CD-ROM drive, substitute D with the correct drive letter.)
- 5. Click "OK".
- Click on "Install Display Drivers(Radeon VE Series)" to begin the Installation Wizard.
- 7. Click "Next".
- 8. Click "Yes" to the license agreement.
- 9. Follow the Wizard's on-screen instructions to complete the installation.

3.3.BIOS FLASH UTILITY

GV-R7032T/GV-R7064T 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 P.30

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

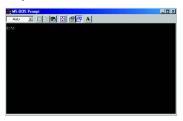
We use GV-AR64SH VGA card and Atiflash BIOS flash utility as example.

- 5.1 How to reflash the BIOS for your graphics card?
- 1. Extract the Zip file to the drive C: or A:
- 2. Restart your PC in MS-DOS mode

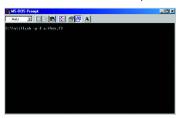
(This function only for Windows 98/98SE, If your OS is Windows 2000 / Windows Me . / Windows XP. please use the bootable disk to MS-DOS mode)



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



4. Reflash BIOS command as below : C:\> atiflash -p 0 <filename>



5. Reboot your PC when it's done.

5.2.Resolutions and Color Depth Table

Display	Refresh	Hor.	Pixel	Color Depth (bpp)		
Screen	Rate	Scan	Clock	8bpp(256 color)	16bpp(65K color)	32bpp(16.7M)
Resolution	(Hz)	(KHz)	(Mhz)	Standard mode	High mode	True mode
	60	31.5	25.2	\checkmark	\checkmark	\checkmark
	72	37.9	31.5	\checkmark	\checkmark	\checkmark
	75	37.5	31.5	\checkmark	\checkmark	\checkmark
640x480	85	43.3	36.0	\checkmark	\checkmark	\checkmark
	90	45.4	37.8	\checkmark	\checkmark	\checkmark
	100	50.9	43.1	\checkmark	\checkmark	\checkmark
	120	61.8	52.4	\checkmark	\checkmark	\checkmark
	160	84.3	72.8	\checkmark	\checkmark	\checkmark
	200	108.0	95.0	\checkmark	\checkmark	\checkmark
	60	37.9	39.9	\checkmark	\checkmark	\checkmark
	70	43.7	45.5	\checkmark	\checkmark	\checkmark
	72	48.1	50.0	\checkmark	\checkmark	\checkmark
800x600	75	46.9	49.5	\checkmark	\checkmark	\checkmark
	85	53.7	56.3	\checkmark	\checkmark	\checkmark
	90	56.8	60.0	\checkmark	\checkmark	\checkmark
	100	63.6	68.1	\checkmark	\checkmark	\checkmark
	120	77.1	83.9	\checkmark	\checkmark	\checkmark
	160	105.4	116.4	\checkmark	\checkmark	\checkmark
	200	135.0	149.0	\checkmark	\checkmark	\checkmark
	60	48.4	65.0	\checkmark	\checkmark	\checkmark
	70	56.5	75.0	\checkmark	\checkmark	\checkmark
	72	57.6	78.4	\checkmark	\checkmark	\checkmark
1024x768	75	60.0	78.8	\checkmark	\checkmark	\checkmark
	85	68.7	94.5	\checkmark	\checkmark	\checkmark
	90	72.8	100.1	\checkmark	\checkmark	\checkmark
	100	81.4	113.3	\checkmark	\checkmark	\checkmark
	120	98.7	139.0	\checkmark	\checkmark	\checkmark
	140	116.6	164.2	\checkmark	\checkmark	\checkmark

RADEON 7000 2D Display Modes

To be continued..

English

English

DDisplay	Refresh	Hor.	Pixel	Color Depth (bpp)		
Screen	Rate	Scan	Clock	8bpp(256 color)	16bpp(65K color)	32bpp(16.7M)
Resolution	(Hz)	(KHz)	(Mhz)	Standard mode	High mode	True mode
	150	125.7	176.9	✓	\checkmark	\checkmark
1024x768	160	134.8	192.0	\checkmark	\checkmark	\checkmark
	200	172.8	246.1	\checkmark	\checkmark	\checkmark
	43	38.0	56.0	✓	\checkmark	\checkmark
	47	41.7	62.1	\checkmark	\checkmark	\checkmark
	60	53.7	81.6	\checkmark	\checkmark	\checkmark
	70	63.0	96.7	\checkmark	\checkmark	\checkmark
	75	67.5	108.0	\checkmark	\checkmark	\checkmark
1152x864	80	72.4	112.3	\checkmark	\checkmark	\checkmark
	85	77.0	119.6	\checkmark	\checkmark	\checkmark
	100	91.5	143.4	\checkmark	\checkmark	\checkmark
	120	111.1	176.0	\checkmark	\checkmark	\checkmark
	150	141.4	226.3	\checkmark	\checkmark	\checkmark
	160	151.6	242.6	\checkmark	\checkmark	\checkmark
	60	64.0	108.0	✓	\checkmark	\checkmark
	70	74.6	128.9	\checkmark	\checkmark	\checkmark
	74	79.0	138.5	\checkmark	\checkmark	\checkmark
1280x1024	75	80.0	135.0	\checkmark	\checkmark	\checkmark
	85	91.1	157.5	\checkmark	\checkmark	\checkmark
	90	97.0	169.2	\checkmark	\checkmark	\checkmark
	100	108.5	190.9	\checkmark	\checkmark	\checkmark
	120	131.6	233.7	\checkmark	\checkmark	\checkmark
	52	64.2	137.7	\checkmark	\checkmark	\checkmark
	58	71.9	155.4	\checkmark	\checkmark	\checkmark
1600x1200	60	75.0	162.0	\checkmark	\checkmark	\checkmark
	66	82.2	178.9	\checkmark	\checkmark	\checkmark
	75	93.8	202.5	\checkmark	\checkmark	\checkmark
	76	95.2	208.7	\checkmark	\checkmark	\checkmark
	85	106.3	229.5	\checkmark	\checkmark	\checkmark
	92	116.4	257.0	\checkmark	\checkmark	\checkmark
	100	127.1	280.6	\checkmark	\checkmark	\checkmark
						To be continue

To be continued..

DDisplay	Refresh	Hor.	Pixel	Color Depth (bpp)		
Screen	Rate	Scan	Clock	8bpp(256 color)	16bpp(65K color)	32bpp(16.7M)
Resolution	(Hz)	(KHz)	(Mhz)	Standard mode	High mode	True mode
1792x1344	60	83.5	203.0	\checkmark	\checkmark	\checkmark
	75	105.2	259.3	\checkmark	\checkmark	
	85	119.9	295.5	\checkmark	\checkmark	\checkmark
1800x1440	60	89.4	219.5	\checkmark	\checkmark	\checkmark
1920x1080	60	67.0	172.7	\checkmark	\checkmark	\checkmark
	70	78.6	205.1	\checkmark	\checkmark	\checkmark
	75	84.6	220.6	\checkmark	\checkmark	\checkmark
	80	90.4	237.4	\checkmark	\checkmark	\checkmark
	60	74.5	193.1	\checkmark	\checkmark	\checkmark
	72	90.0	222.2	\checkmark	\checkmark	\checkmark
1920x1200	75	93.9	231.4	\checkmark	\checkmark	\checkmark
	80	100.5	263.7	\checkmark	\checkmark	\checkmark
	85	107.1	282.7	\checkmark	\checkmark	\checkmark
1920x1440	60	89.4	234.5	\checkmark	\checkmark	\checkmark
	75	112.7	297.6	\checkmark	\checkmark	\checkmark
2048x1536	60	95.3	267.0	\checkmark	\checkmark	\checkmark

English