

**SIGMA CYBER 5500 II DVI
User's Manual
Version 1.0**

Notice

This device has been approved by EMI for home. It can be used in all areas including residential area.
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Chapter 1. Introduction

Contents of the package

Thank you for purchasing the Sigma Cyber 5500 DVI.

Please make sure that you have a full content of Sigma Cyber 5500 DVI after removing the package.

Sigma Cyber 5500 DVI Board

It is equipped in AGP slot of system main board and displays the computer screen on your TV.

Installation CD

It is an installation CD that contains drivers and programs.

User's manual

It describes the installation and use of application programs.

TV out Y-type cable

It is a cable to connect composite or S-VHS TV.

Features of Sigma CYBER 5500 DVI

- * Powered by nVIDIA's GeForce 2 MX
- * Two new Hypertexel pipelines
- * Up to 20million triangles per second at peak rates
- * Full scene anti-aliasing and Per-Pixel Shading
- * Maximum resolution up to 2048x1536 at 75 Hz
- * 32MB Video Memory support
- * Integrated 350MHz RAMDAC
- * AGP 4X/2X with Fast Writes and Execute Mode
- * DirectX 7.0/OpenGL support
- * DVD acceleration
- * Dual monitor out support (Twinview)
- * 100% hardware triangle setup engine
- * Transform and Lighting (T&L) Engine
- * Sigma MP3 Player
- * Flash ROM BIOS for BIOS update
- * GigaTexel Shading processing two texture per pixel
- * Optimized drivers for Windows9x, NT40 and Windows2000

System Configuration and Each Part Description

● System Configuration

To use Sigma Cyber 5500 DVI effectively, you need the following configuration.

CPU & Main board

IBM-PC compatible main board in compliance with AGP 2.0

(More than Intel 440BX or VIA Apollo pro)

Intel Pentium II/III CPU or compatible

O/S

Windows98

Windows98SE

WindowsNT4.0 (more than service pack 3)

Windows 2000

Windows Me

(Sigma VCD /MP3 are for Windows 98(SE).)

Software

Microsoft DirectX6.1

System memory

32MB or more

Peripherals

50MB free hard disk space

CD-ROM drive

MS Compatible mouse

Sound blaster compatible sound card (recommended)

3.5" Floppy Drive

Multi-scan monitor

● Part Description

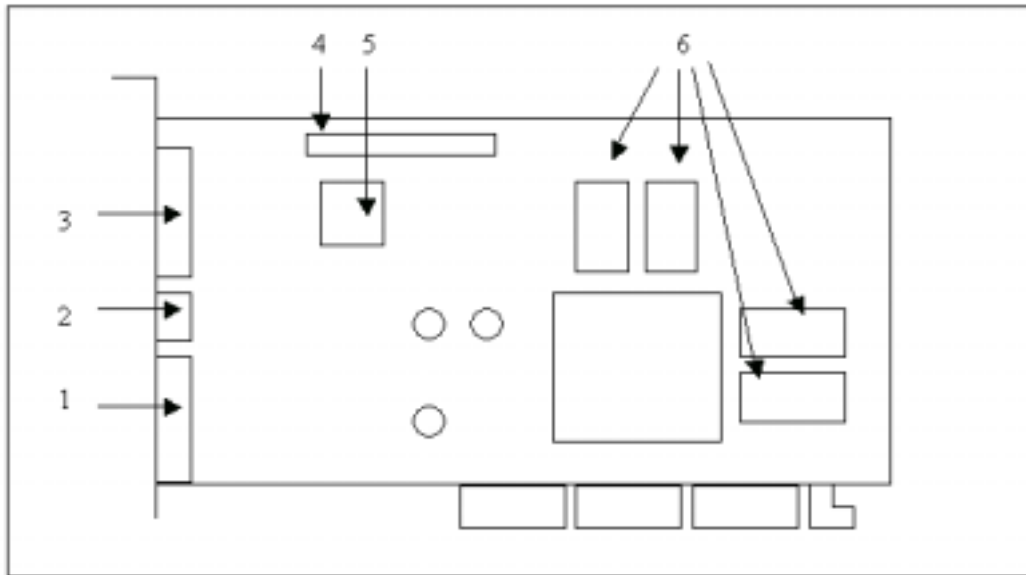


Figure1. Sigma Cyber 5500 DVI

1. VGA Monitor output

is connected to the monitor and outputs video signals.

2. Composite/S-VHS TV output

is to transmit PC screen into Composite/S-VHS signals.

3. DVI-I Dual Link output (24 pins)

accepts either a 12- or 24 - pin DVI plug connector or new type of analog plug connector.

4. Feature connector

is a connection jumper for connection with other multimedia products.

To use the function, you need to refer to the manual provided by its manufacturer.

5. ROM BIOS

is the location of the memory containing basic program code to control the VGA in your system.

6. Video memory

is a storage place to have the contents to be displayed on the screen. It is called as Frame buffer or Video buffer. 32MB high speed SDRAM or DDR SGRAM are provided as standard, which is the maximum amount of memory supported by the CYBER 5500 DVI.

Chapter 2 Installation

Installation of display drivers

Windows 98

In case of installing the SIGMA CYBER 5500 with Windows 98

If you have installed Windows 98 newly, your system recognizes the video card as “standard PCI graphics adapter”. If it has not been set correctly, switch display to “standard PCI graphics adapter and proceed the following procedures.

1. Insert the installation CD into the CD-ROM Drive.
2. Click the right mouse button on the Windows screen and select “properties” on the dialog box.
3. Select “ settings” in “Display properties”.
4. Click “advanced”, “Adapter” then “Change”.
5. “Device driver update wizard” appears then click “next”.



6. Select your CD-ROM drive and locate WIN9X folder then click “O.K”.
(ex, D:\CYBER5500\WINX)



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7. When it turns back to the “device driver update wizard”, click “Next”.
 8. If it recognizes “SIGMA CYBER 5500 DVI”, click “ next” again.
 9. Click “Finish”.
 10. If a dialog box appears asking if you want to restart your system, select “Yes”.

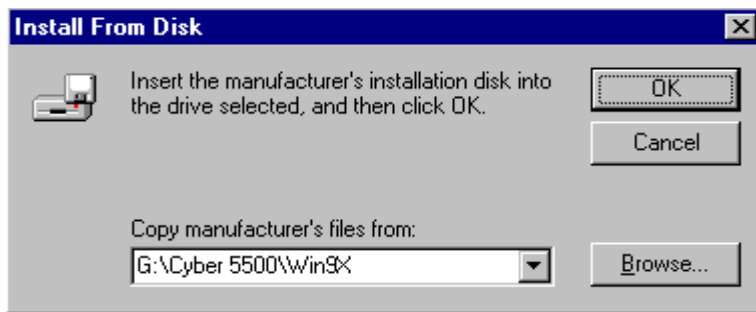


In case of exchanging the VGA card to the CYBER 5500 DVI

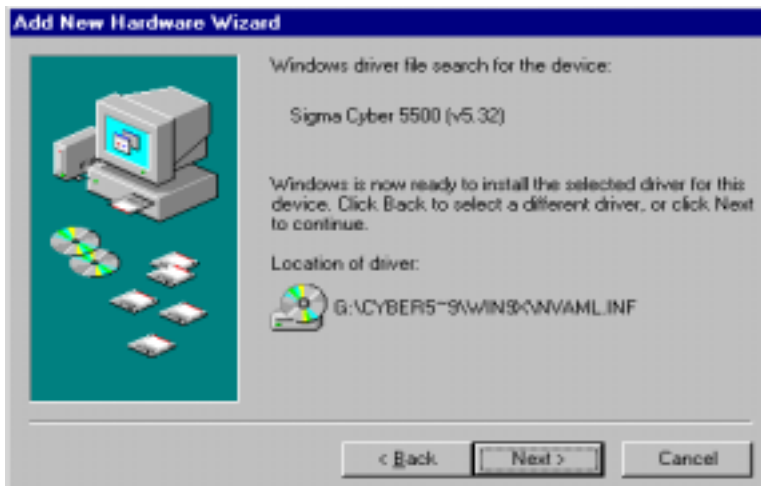
1. When Windows 98 begins, the “Add new hardware wizard” dialog box will appear then click “Next”.
2. Click “Display a list of all the drivers in a specific location so you can select the driver you want” and then click “Next”.
3. Select “Disk” in the “Device update wizard” and insert the installation CD into the CD-Rom drive.



4. Click “Find” in “Install from disk” dialog box and select the CD-Rom Drive.
5. Type “E:\WIN9X” then click “O.K” (E is assumed as the letter of your CD-ROM Drive)



6. If “SIGMA CYBER 5500” is in “Display adopter” dialog box, click “O.K”.
- The appropriate drivers will be copied and the system will be configured automatically.



-
7. If a dialog box appears asking if you want to restart your system, select "Yes".



Windows 2000

In case of installing Windows 2000 in your system that has the SIGMA CYBER **5500 DVI**

When you install Windows 2000 in condition that the SIGMA CYBER 5500 DVI has been installed, Adapter type is set to "VGA". You can find 'Video controller (VGA compatible)' in "Other device" in 'Device manager'

1. Insert the installation CD into your CD-ROM Drive.
2. Click the right mouse button on the "My Computer" and select "properties".
3. Select "hardware" tab and click "Device manager" then the device manager dialog box and Video controller (VGA compatible) in "Other devices" appear.
4. Select "Video controller (**VGA compatible**)" and then "Properties".
5. Select "Driver" tab and click "Driver update".
6. "Driver upgrade wizard" or 'New hardware search wizard' appears. Then click "Next".
7. Select "**Search for the best driver for your device (recommended)**" and click "Next".

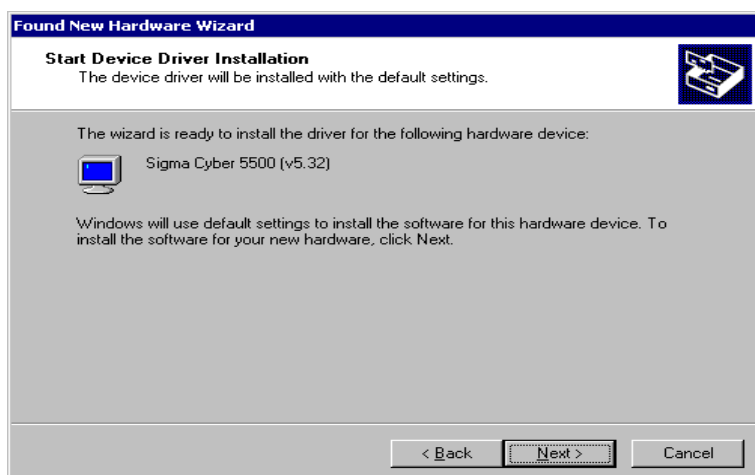


8. Select "Specify location", click "Next" and "Browse". Select "CYBER5500\WIN2000" folder on the Installation CD when the browse dialog box appears and click "Open".
9. When you click "O.K", the location of the INF file appears. Click "Next".
10. If the driver has not been certified by WHQL, "Can not find the digital signature" dialog box appears. Click "Yes" to proceed.
11. A message that the driver has been installed successfully appears. Then click "Finish". It will prompt you to restart your computer, click "Yes" to restart your computer to complete the installation.

In case of installing the SIGMACOM CYBER 5500 DVI in Windows 2000

When you remove the existing VGA card from your system and newly install the SIGMA CYBER 5500 DVI “New hardware found” dialog box appears and “add new hardware wizard” is started automatically.

1. Click “Next”.
2. Select ‘Search for the best driver for your device(recommended)’and click “Next”.



3. Insert the installation CD into your CD-ROM Drive.
4. Select “Select location”, click “Next” and “Find”. Select your CD-ROM drive and locate “CYBER5500\WIN2000” folder then click “Open”
5. When you click “O.K”, the location of the INF file appears. Click “Next”.
6. If the driver has not been certified by WHQL, “Can not find the digital signature” dialog box appears. Click “Yes” to proceed.
7. A message that the driver has been installed successfully appears. Then click “Finish”. It will prompt you to restart your computer, click “Yes” to restart your computer to complete the installation.

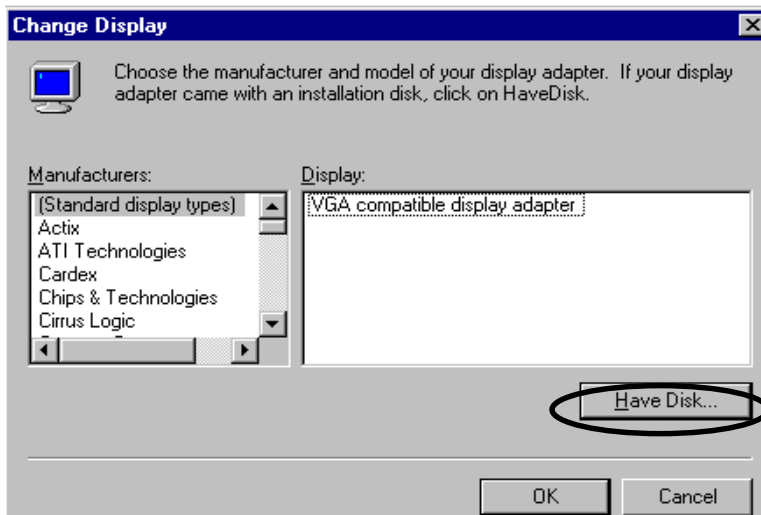


Windows NT4.0

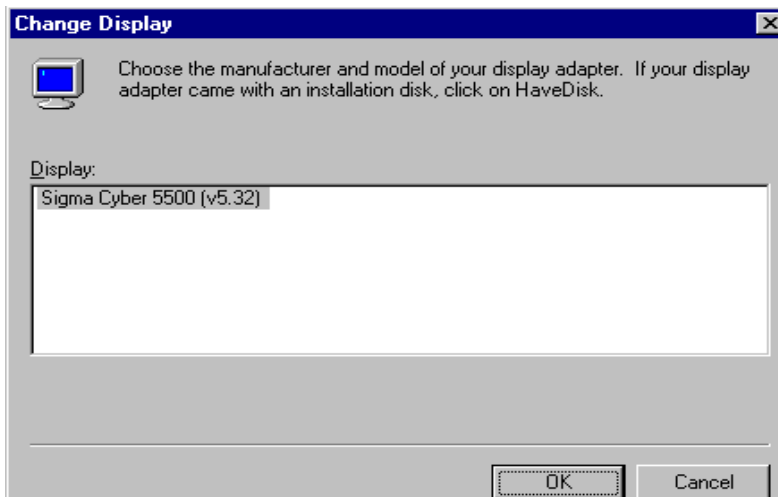
Note

- ♦ To install the SIGMA CYBER 5500 DVI in Windows NT 4.0, you should have Service pack 3 or higher.

1. Start Windows NT4.0.
2. Insert the installation CD into your CD-ROM Drive.
3. Click the right mouse button on the Windows screen and select “properties” on the dialog box.
4. The “display properties” dialog box appears. Click “display type” on “Settings”.
5. Select “Change” in the “adapter type”. “Display change” dialog box appears. Then click “Have Disk”.



6. Click “Browse” to select the path of the display driver for Windows NT. Select ‘nv4_disp’ of ‘NT 40’ in ‘Cyber 5500’ folder and ‘Open’.
7. Confirm the path is entered and click “OK”.
8. If it recognizes Sigma Cyber 5500 DVI (vX.XX), click “OK”.

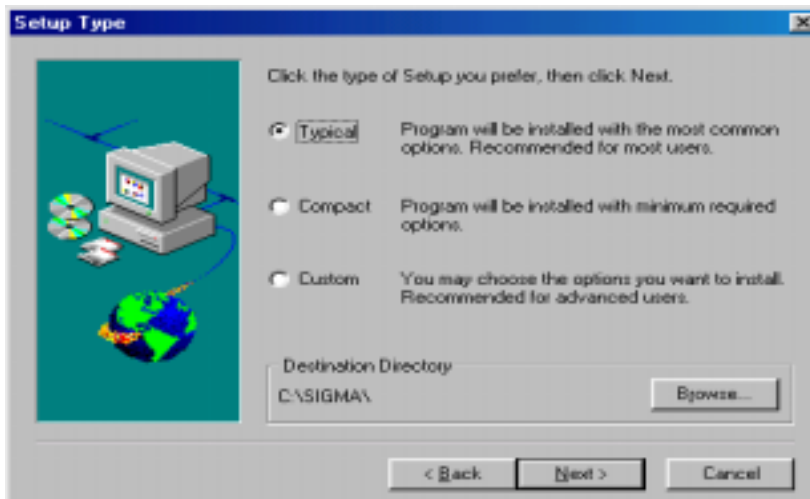


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9. Select "Yes" if a dialog box that asks to install a third party drivers.
 10. All appropriate files are then copied to the hard disk. When all files are copied, go back to the Display Properties box by clicking Close.
 11. Click "Yes" to restart your system.

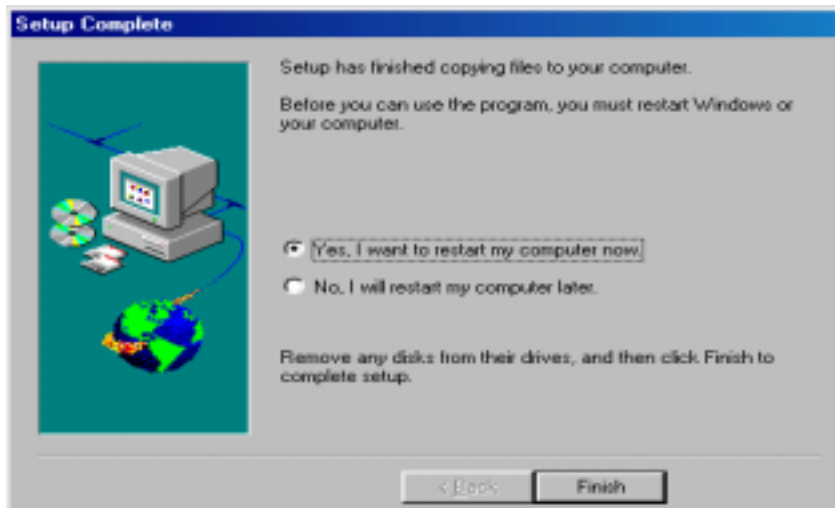
Installation of application programs

Installation of application programs for SIGMA CYBER 5500 DVI

1. Insert the installation CD into your CD-ROM Drive.
2. Open "My Computer" in Windows 95 or Windows 98 and select your CD-ROM Drive.
3. Run "SETUP.EXE" in "SIGMACOM" folder of the "CYBER 5500".
4. The instruction screen appears. Then click "Next" to proceed.
5. Installation directory and types are shown in the dialog box. Click "Next".
If you want to change the installation directory, click "Search" and place a directory you want.
If you want to install user-defined items, select "Custom" then "Next".



6. A dialog box for the program folder appears, then click "Next".
If you want to change the name of the program folder, enter a name in the white blank.
7. A dialog box that shows for confirmation appears, then click "Next" after checking the settings. The applications will be copied and folders and icons will be created.
8. When the installation is completed, it will ask you to restart your system.
9. Click "Yes" to restart your system.

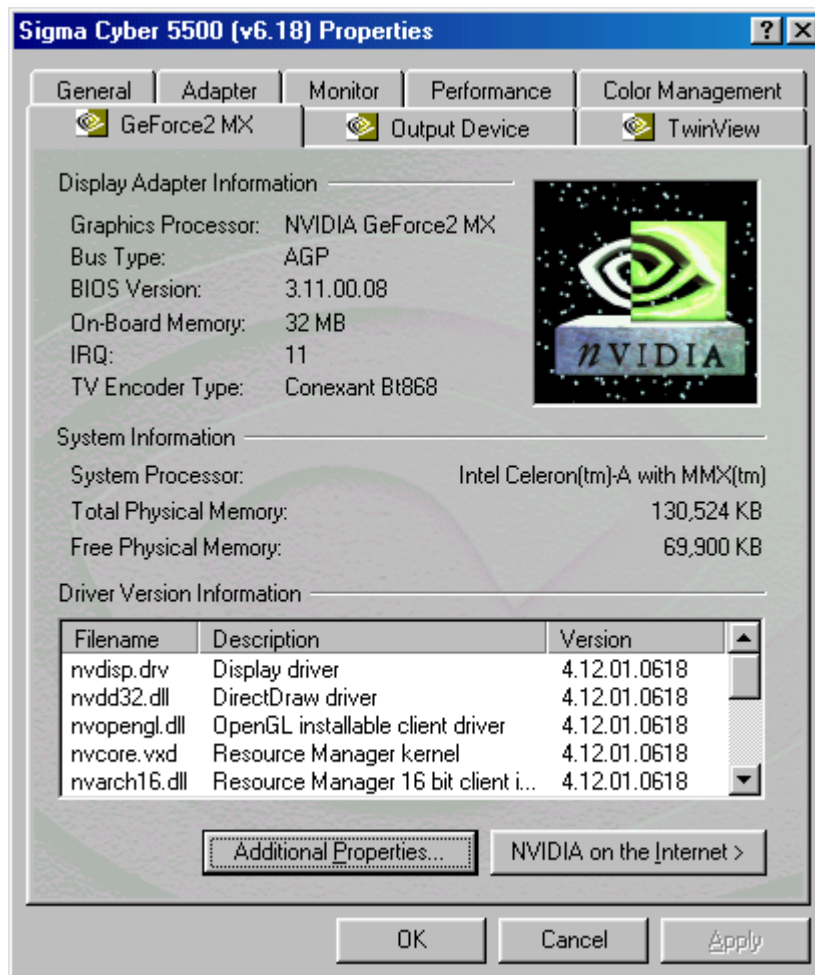


Chapter 3 How to use Utility programs

Using Sigma Cyber 5500 DVI's utilities

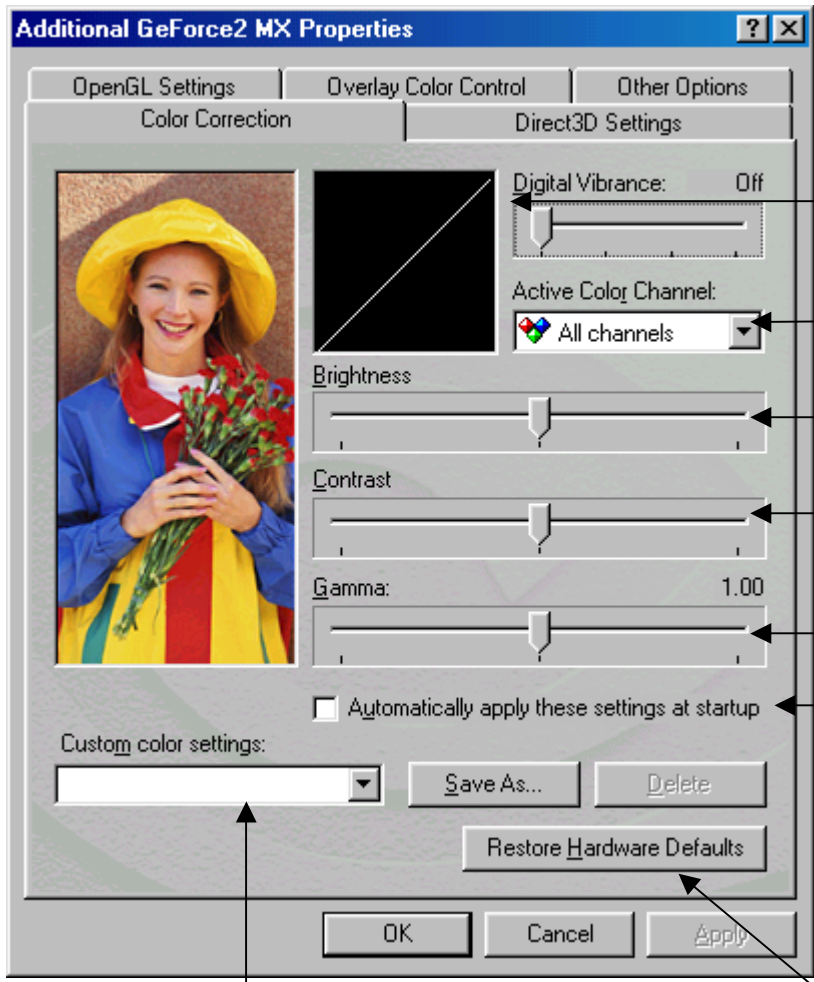
This is a utility program that sets display properties and 3D functions provided by the CYBER 5500 DVI.

When selecting "GeFORCE 2 MX" tab right after clicking "Advanced" in "Settings" of the "Display properties", the following dialog box that shows hardware information, driver version and memory size appears. And more functions such as Gamma correction, 3D features, OpenGL and DirectX are provided when clicking "Additional properties" in the below part of the dialog box.



Color management

This is a utility to adjust a color (Gamma value) and contrast value.



Additional GeForce2 MX Properties

OpenGL Settings | Overlay Color Control | Other Options

Color Correction | Direct3D Settings

Digital Vibrance: Off

Active Color Channel: All channels

Brightness

Contrast

Gamma: 1.00

Automatically apply these settings at startup

Custom color settings:

Save As... Delete

Restore Hardware Defaults

OK Cancel Apply

Shows the screen condition that is controlled by the below bars.

Sets a color to control among Red, Blue, Green and all three colors.

Controls the brightness.

Controls the contrast.

Controls the color (Gamma value).

If this is marked, the current settings are applied when starting Windows.

Saves or deletes the current set value.

Restores to the default value.

DirectX 3D settings

This is to specify each detailed item for 3D acceleration.

Additional GeForce2 MX Properties

OpenGL Settings | Overlay Color Control | Other Options

Color Correction | Direct3D Settings

Direct3D

Performance and Compatibility Options

- Enable fog table emulation
- Adjust Z-buffer depth to rendering depth if unequal
- Enable alternate depth buffering technique
- Display logo when running Direct3D applications

Mipmapping

Mipmap detail level: Best image quality

PCI Texture Memory Size

Use up to 15 MB of system memory for textures in PCI mode.

Custom Direct3D settings:

Save As... Delete

More Direct3D... Restore Defaults

OK Cancel Apply

Selects MIPMAP level.

MIPMAP detail level (best quality ↔ best speed) adjusts 5 levels of MIPMAP.

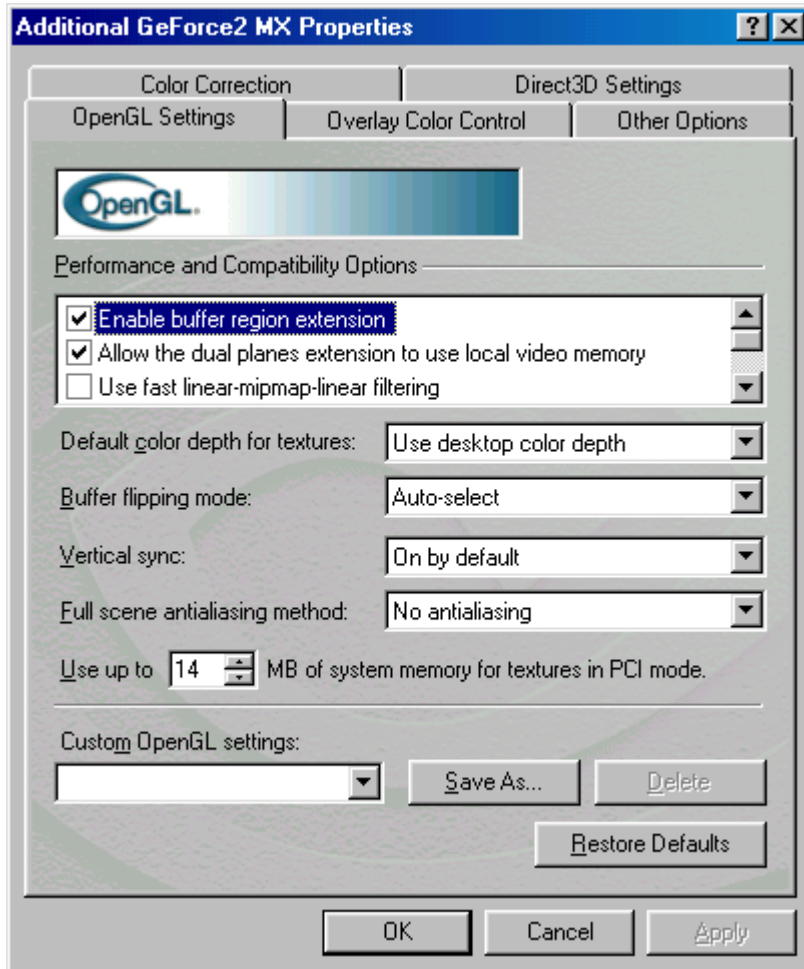
Saves the configuration.

Restores to the default value.

Sets Texel arrangement and PCI texture memory size.

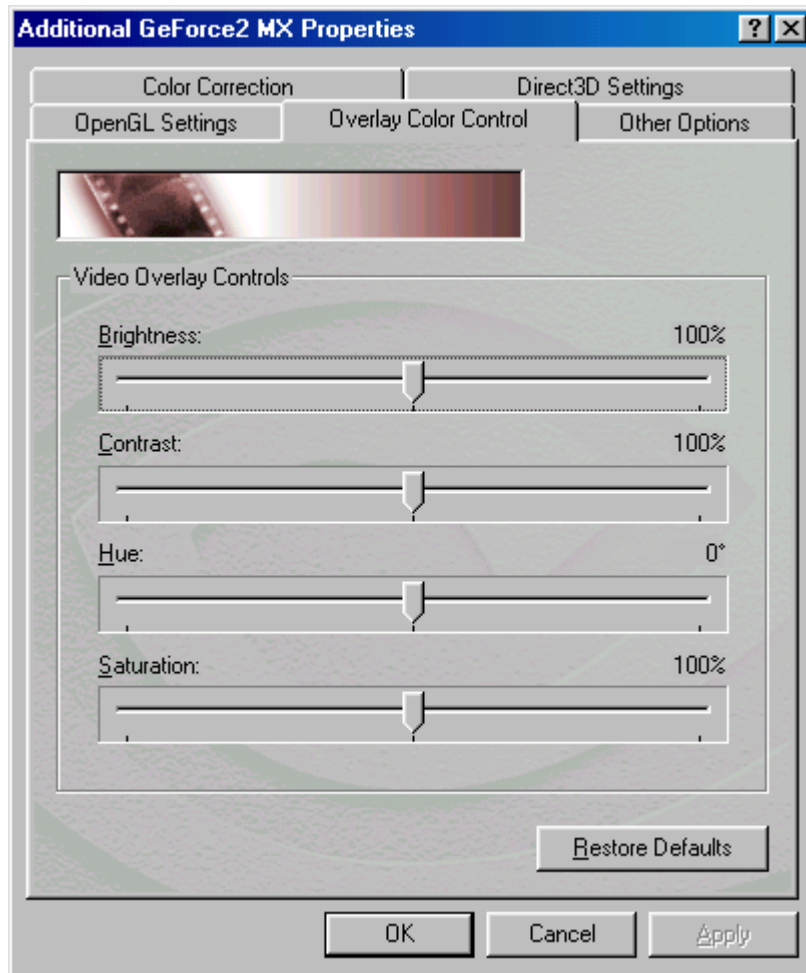
Open GL settings

This is to set the buffer and video memory for OpenGL.



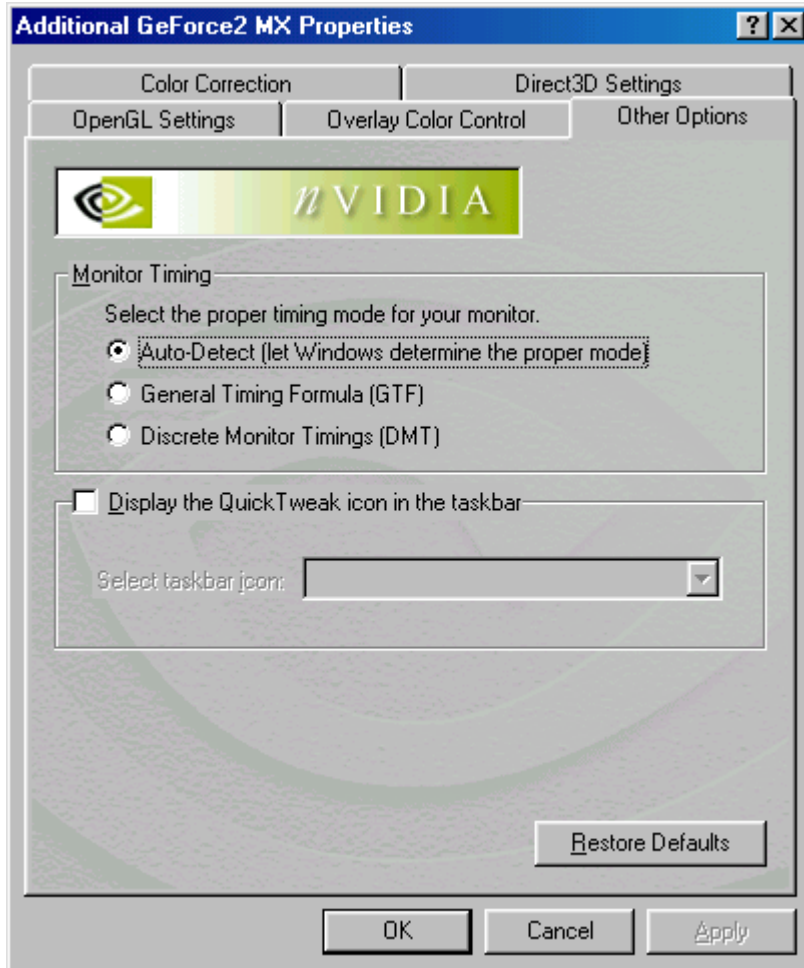
Overlay color control

This is to control the overlay color when watching TV or VCD.



Other options

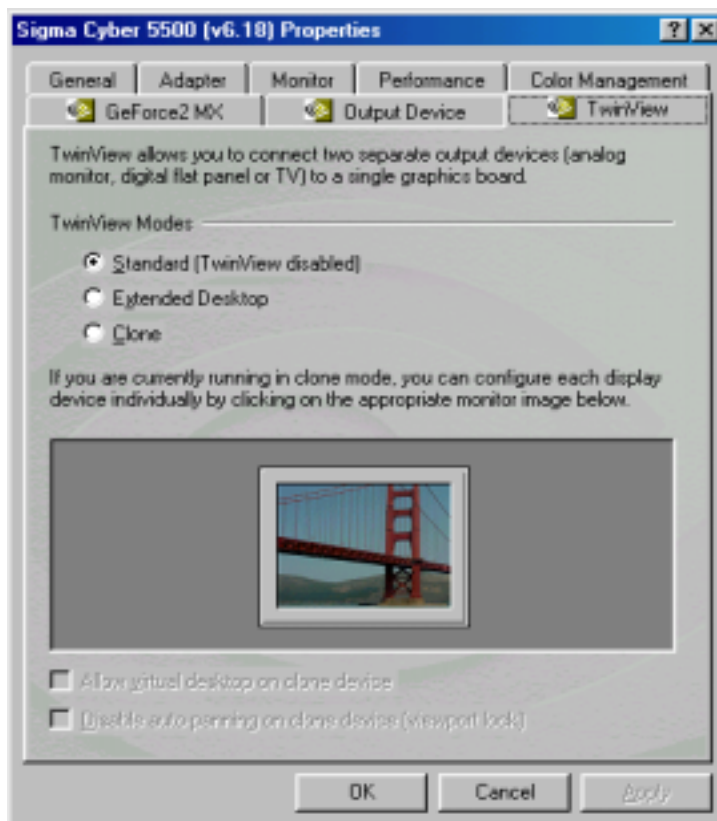
This sets the display drivers and icon images for display tabs.



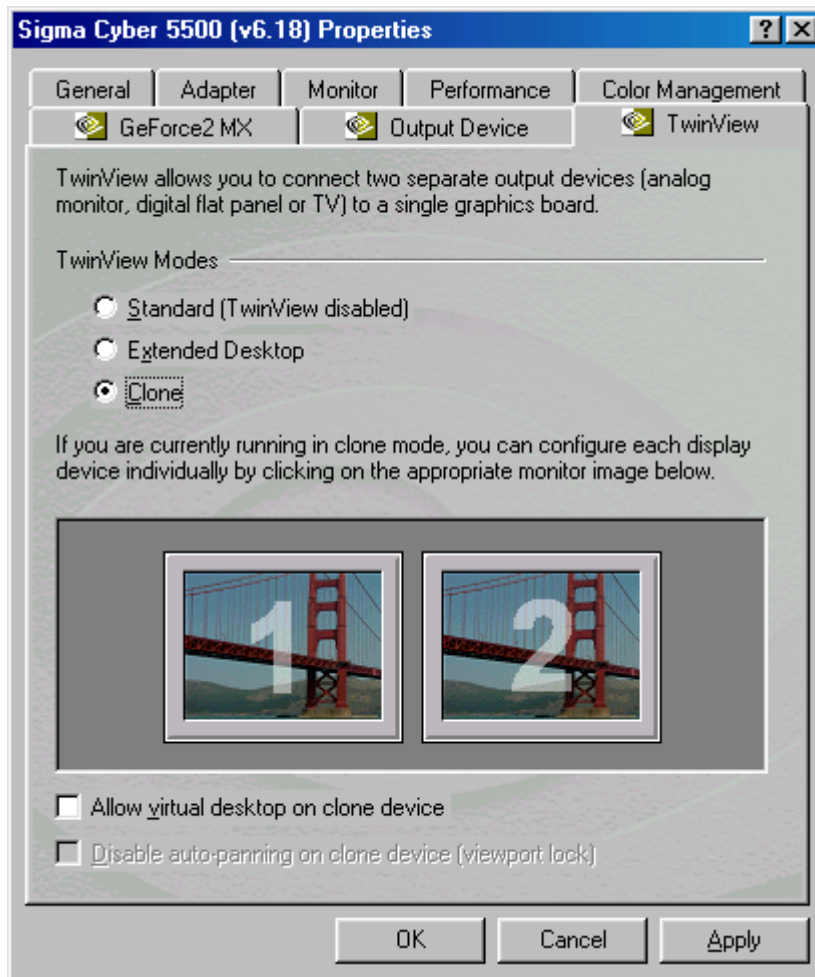
TwinView Function

TwinView is able to support two display devices simultaneously to achieve multiple display function. Unlike other solutions that you have to plug two cards in a system, TwinView function can achieve a multiple display by only one card. You can connect DVI enabled Display to DVI Dial Link output or TV to Composite/TV output.

1. Click right mouse button and choose "Properties". Open TwinView window through the path: "Properties" -> "Settings" -> "Advanced" -> "TwinView".



2. Select desired TwinView mode as “Extended Desktop” or “Clone” instead of “Standard”. “Extended Desktop” mode lets a desktop area shared by all display devices. “Clone” mode let every device displayed the same image.



3. Press “OK”. The system will restart to achieve the function.

Watching Video - CD

Note

Make sure that you have installed a sound card in your system before you run SIGMA utilities such as SIGMA VCD player and SIGMA MP3 player.

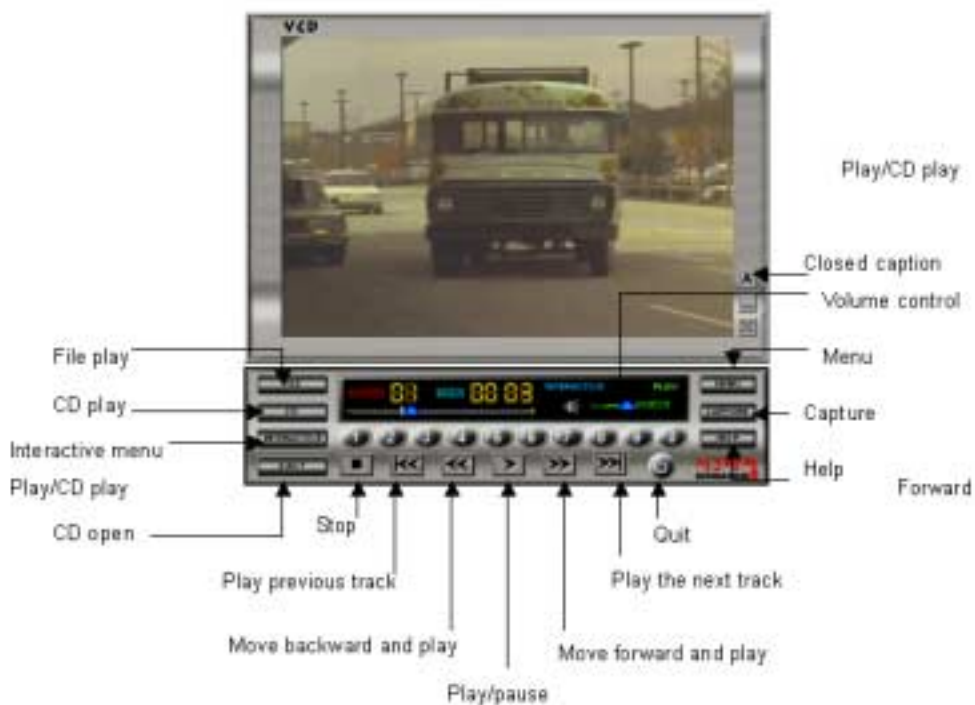
When running a utility program, it automatically searches the sound card in your system. If your sound card driver has not been installed correctly, the utility will deny to work.

● Starting the program

Insert the video CD into the CD-ROM drive.

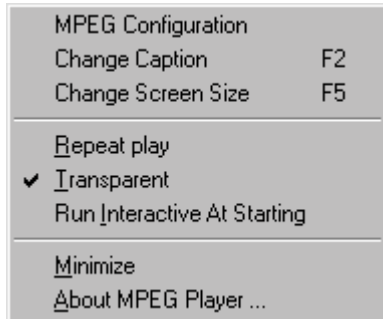
Select 'program' of 'Start' in Windows 95 or 98. Run 'Sigma VCD' of 'Sigma multimedia' folder to display screen window and player panel as follows.

SIGMA CD player is a SW MPEG player to play Video, Audio CD and MIDI files. It also can be used for second language education with closed caption and screen captures.



Menu screen

Click "Menu"[, the following pop-up menu appears.



MPEG config

Sets MPEG configuration for audio channel, volume control, screen size and DirectDraw.

Subtitle change

Changes the subtitle to another language. This is supported with Video CD 2.0.

Screen size control

Changes the screen size to the full or its original.

Auto replay

Replays a title from the beginning.

Hiding the background color of subtitle

Hides the background color of the subtitle on the screen.

Starting Interactive for VCD play

Makes the VCD player start in Interactive mode. It is supported with VCD 2.0 format.

Iconization (minimize)

Minimizes the SIGMA TV player panel.














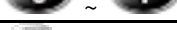



Help

Shows the on-line help of SIGMA TV player.

About

Shows the information on the SIGMA TV player.

● Button Functions

Button	Description	Function
	Capture	Captures motion pictures.
	Video CD Play	Plays video CD or audio CD.
	CD-ROM Eject	Ejects CD-ROM drive tray.
	Online Help	Displays help for Sigma VCD Player.
	Menu	Displays configuration menu to play Sigma VCD Player.
	File Open	Opens images in file.
	Interactive Mode	Plays interactive mode supported in Video CD 2.0 Cl.
	Previous Track	Plays the previous track.
	Backward Play	Plays backward.
	Play / Pause	Plays or pauses video CD or audio CD.
	Stop	Stops CD palying.
	Forward Play	Plays forward.
	Next Track	Plays the next track.
	Number	Uses to choose track or menu.
	Quit	Quits Sigma VCD Player.
	Subtitle Mode	Change or quit a subtitle.
	Iconize	Minimizes a screen window.
	Size Change	Change to the full screen.

Listening to MP3 audio (Sigma MP3)

SIGMA MP3 player is a high quality MP3 player that runs in Windows environment. You can play all kinds of MP3 files at your convenience.



Repeat

Repeats a MP3 file when clicking the icon.

Open

Opens a MP3 file or list to be played.

Play list

Makes a playable list of MP3 files.

Help

Shows the on line help of the SIGMA MP3 player.

About

Shows the information on the SIGMA MP3 player.

Exit

Quits the SIGMA MP3 player.

Addendum

Q & A

Q1: There is an irregular beep sound when booting up the system after installation and nothing on the monitor screen.

A1: Make sure that your system has been connected to the monitor with cable correctly. Also check the power cable is well connected to the monitor. If the problem still exists, remove the VGA card from the AGP slot, make clear the golden-plated pins of the VGA card with eraser, insert it again into the AGP slot and reboot your system.

Q2: Window95/98 informs that the display setting is still incorrect after installation and restarting.

A2: Drivers for the new display adopter and the existing drivers may conflict with each other or Windows95/98 does not recognize the display adopter correctly. Follow the procedures below.

Reboot your system to Safe mode, select 'Start'→'Settings'→'Control panel'→'System'→'Device Manager' and delete all controllers that have been set in "Display adopter".

Delete a proper INF file regarding the display adopter (normally located in C:\Windows\INF\Other) and the same INF file in the INF folder. Set to "Standard PCI graphics adopter" and reinstall the display drivers.

Q3: The monitor is not capable of high resolution and refresh rate.

A3: The monitor driver has not been set correctly.

Reinstall the monitor driver provided by its manufacturer or set to "Plug and Play monitor".

If your monitor does not support DDC, set to "Super VGA 1600X1200" for your convenience.

Q4: Dual monitor is not configured in Windows 98.

A4: In order to use dual monitor in Windows 98, two display adopters need to support Primary and Secondary display each. If you set the SIGMA display adopter (AGP) to the Primary, the other PCI display adopter should be set to the Secondary.

When restarting Windows 98, it says the secondary display controller has been detected on your second monitor. At this time, if you install PCI display driver in the display properties of the primary monitor, you can use the display controller with two monitors.

Q5: Display drivers are not installed in Window NT4.0.

A5: Basically the SIGMA display adopter supports AGP2X or higher.

As Windows NT does not support AGP2X, you need to install Windows NT 4.0 Service pack3 or higher.

You can download Windows NT 4.0 Service Pack3 at www.microsoft.com.

Q5: When running 3D games, the system is halted.

A5: There is a problem in DirectX driver setting.

Reinstall updated display drivers and DirectX drivers. Select C:\Program files\DirectX\Setup and run "Dxdiag.exe". Select "Display" tab and check whether Direct3D works correctly by pressing "Test" tab in the Direct3D".

Q6: When running the SIGMA VCD player, Windows 95/98 says that the SIGMA graphics card is not detected and it refuses to run the SIGMA VCD player.

Q6: This comes from not detecting the SIGMA display adopter.

You should use BIOS provided by SIGMACOM to run the SIGMA VCD player. (Error message appears if you use another BIOS or you update it from Internet or BBS)

Update BIOS from SIGMA Home page at www.sigmacom.co.kr.

Q7: Nothing on the screen when running the SIGMA VCD player.

A7: Generally VCD 2.0 title has been designed for playing movies by Interactive navigation. In case of playing a simple DAT file without Interactive, there is no problem to run the motion file. However when loading and playing a VCD title that does not have interactive function, it refuses to play because the SIGMA VCD player is designed for interactive navigation.

Q8: When running the SIGMA VCD player, the system is halted or gives an error message that it is quitted by mis-calculation.

A8: It may come from S/W MPEG driver.

If there is another S/W MPEG driver in your system (ex: Compcore, Mediametics, Xing ...) before installing the SIGMA VCD player, it may cause the conflict. Reinstall the SIGMA VCD player.

If the problem still exists, open "System.ini file" and delete another MPEG drivers that registered at MCI part. After that, reinstall the SIGMA multimedia programs.

Q9: When running the SIGMA VCD player, the motion picture is step-played or stopped.

A9: It may be played slowly if your CD-ROM Drive is connected to the IDE connector as Slave.

Change its connection to the Master.
