

Graphics Card

Installation Guide

E1415 First Edition V1 September 2003

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Notices

Federal Communications Commission Statement

This device complies with FCC Rules Part 15. Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- This device must accept any interference received including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with manufacturer's instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



The use of shielded cables for connection of the monitor to the graphics card is required to assure compliance with FCC regulations. Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Canadian Department of Communication Statement

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

This class B digital apparatus complies with Canadian ICES-003.

Safety information

Electrical safety

- To prevent electrical shock hazard, disconnect the power cable from the electrical outlet before relocating the system.
- When adding or removing devices to or from the system, ensure that the power cables for the devices are unplugged before the signal cables are connected. If possible, disconnect all power cables from the existing system before you add a device.
- Before connecting or removing signal cables from the motherboard, ensure that all power cables are unplugged.
- Seek professional assistance before using an adpater or extension cord. These devices could interrupt the grounding circuit.
- Make sure that your power supply is set to the correct voltage in your area. If you are not sure about the voltage of the electrical outlet you are using, contact your local power company.
- If the power supply is broken, do not try to fix it by yourself. Contact a qualified service technician or your retailer.

Operation safety

- Before installing the motherboard and adding devices on it, carefully read all the manuals that came with the package.
- Before using the product, make sure all cables are correctly connected and the power cables are not damaged. If you detect any damage, contact your dealer immediately.
- To avoid short circuits, keep paper clips, screws, and staples away from connectors, slots, sockets and circuitry.
- Avoid dust, humidity, and temperature extremes. Do not place the product in any area where it may become wet.
- Place the product on a stable surface.
- If you encounter technical problems with the product, contact a qualified service technician or your retailer.

Macrovision Corporation Product Notice

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only *unless otherwise authorized by Macrovision Corporation*. Reverse engineering or disassembly is prohibited.

About this guide Conventions used in this guide

To make sure that you perform certain tasks properly, take note of the following symbols used throughout this manual.



WARNING: Information to prevent injury to yourself when trying to complete a task.

CAUTION: Information to prevent damage to the components when trying to complete a task.



IMPORTANT: Information that you MUST follow to complete a task.



NOTE: Tips and additional information to aid in completing a task.

Typography

Bold Text	Indicates a menu, dialog box or an item to select.
Text input	Indicates a text or command that you have to type on the screen.

Where to find more information

Refer to the following sources for additional information and for product and software updates.

1. ASUS Websites

The ASUS websites worldwide provide updated information on ASUS hardware and software products. The ASUS websites are listed in the ASUS Contact Information on page vii.

2. Optional Documentation

Your product package may include optional documentation, such as warranty flyers, that may have been added by your dealer. These documents are not part of the standard package.

ASUS contact information

ASUSTeK COMPUTER INC. (Asia-Pacific)

Address:	
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Support CD information 1

The support CD that came with the VGA card contains useful software and several utility drivers that enhance the video features.

- The screen displays in this manual may not exactly match the display on your screen.
 - Some driver and utility items in the support CD apply only to specific ASUS VGA card models.
 - The contents of the support CD are subject to change at any time without notice. Visit the ASUS website for updates.

1.1 Running the support CD

To begin using the support CD, simply insert the CD into your CD-ROM drive. The support CD automatically displays the 2D/3D Graphics & Video Accelerator main menu if autorun is enabled in your computer.





menus

If autorun is NOT enabled in your computer, browse the contents of the support CD to locate the file SETUP.EXE. Double-click the **SETUP.EXE** to run the support CD installation program.

2. Display driver installation

A display driver is the software program that makes the device work with your operating system. You can install the display drivers for your graphics card using any of the recommended methods in this section depending on your operating system.

If you are replacing an old graphics card with a new ASUS graphics card, make sure to change the Windows display driver setting to "Standard Display Adapter (VGA)" to avoid possible driver conflicts. Perform the steps in section "2.1 Changing the Windows display driver" to change your Windows display driver.

If you are installing an ASUS graphics card in a computer system without an existing graphics card, perform the steps in section "2.2 Install ASUS enhanced driver".

2.1 Changing the Windows display driver

- 1. Boot your computer.
- 2. Click the Start button. Select Settings, then Control Panel.
- 3. Double-click the **System** icon in the Control Panel. Select the **Device Manager** tab.
- 4. Double-click on **Display Adapters**.
- 5. Select the current display adapter then click on Properties.
- 6. From the Properties dialog box, select the **Driver** tab then click on **Update Driver**.



7. Click **Next** on the succeeding screen.



- Select the Display a list of all the drivers in a specific location, so you can select the driver you want option, then click Next.
- From the Update Device Driver Wizard dialog box, select Show all hardware. Select (Standard display types) from the Manufacturers list box and Standard Display Adapter (VGA) from the Models list box. Click Next.





- 10. When prompted to update the driver, click Yes.
- 11. Click **Next** on the succeeding screens.
- 12. When Setup has finished installing all the necessary files to your computer, it prompts you to restart your computer. Click **OK**.

2.2 Install ASUS enhanced driver

The ASUS fine-tuned enhanced driver delivers the best 3D performance on your video output. Use any of the recommended methods in this section to install the ASUS enhanced driver after booting your computer.

2.2.1 Windows 2000/XP

Method 1: ASUS Quick Setup Program

- When Windows detects your ASUS graphics card, the Found New Hardware Wizard dialog box appears.
- 2. Click **Cancel** to enter the Windows desktop.
- 3. Insert the support CD into your CD-ROM drive.
- 4. If autorun is enabled, the 2D/3D Graphics & Video Accelerator appears automatically.

If autorun is disabled, run **Setup.exe** from the root directory of your support CD.

- 5. From the 2D/3D Graphics & Video Accelerator main menu, click **Drivers**.
- 6. Click the **ASUS Enhanced Driver Install** button from the **Drivers** menu to copy the necessary files to your computer.
- 7. Follow the succeeding screen instructions.
- When Setup has finished installing all the necessary files to your computer, it prompts you to restart your computer. Click OK.







Method 2: Plug and Play

 When Windows detects your ASUS graphics card, the Found New Hardware Wizard dialog box appears. Click Next.

- From the Found New Hardware Wizard dialog box, select Search for a suitable driver for my device (recommended) then click Next.
- 3. When the Locate Driver Files dialog box appears, insert the support CD into your CD-ROM drive.
- Check CD-ROM drives and uncheck all other options. Click Next to search for the drivers of your graphics card.
- 5. When the wizard has finished searching for driver files for your graphics card, check **Install one of the other drivers** then click **Next**.



- When prompted to select the display driver to install in your system, select the one that is located in the D:\WIN2KXP\ASUS and click Next.
- 7. Follow the succeeding onscreen instructions.
- 8. When Setup has finished installing all the necessary files to your computer, it prompts you to restart your computer. Click **OK**.

ver Files Found Which driver do you want to	install ?		
ASUS V8170 v28.3	32		
3			
Windows found the following	drivers whic	h are suitable fo	r this device. To install one of
these drivers select it from the	e list and clic	k Next.	
Description	Provider	Manufacturer	Location
	TOMUEL	manuracturer	Location
ASUS V8170 MX v28.32	ASUSTek	ASUSTek	d:\win2kxp\asus\asusnv2k
NVIDIA GeForce4 MX 420	NVIDIA	NVIDIA	c:\winnt\inf\oem14.inf
ASUS V8170 MX v28.32	ASUSTek	ASUSTek	d:\win2kxp\asus\asusnv2k
NVIDIA GeForce4 MX 420	NVIDIA	NVIDIA	c:\winnt\inf\oem14.inf
ASUS V8170 MX v28.32	ASUSTek	ASUSTek	d:\win2kxp\asus\asusnv2l
NVIDIA GeForce4 MX 420	NVIDIA	NVIDIA	c:\winnt\inf\oem14.inf
ASUS V8170 MX v28.32	ASUSTek	ASUSTek	d:\win2kxp\asus\asus\asus\v2k
NVIDIA GeForce4 MX 420	NVIDIA	NVIDIA	c:\winnt\inf\oem14.inf

2.3 ASUS WHQL driver

The ASUS reference driver to Microsoft's Windows Hardware Quality Labs (WHQL) ensures that your video graphics card is compatible with the Windows operating system.

- 1. Insert the support CD into your CD-ROM drive.
- If autorun is enabled, the 2D/3D Graphics & Video Accelerator appears automatically.

If autorun is disabled, run **Setup.exe** from the root directory of your support CD.

- From the 2D/3D Graphics & Video Accelerator main menu, click **Drivers**.
- Click the ASUS WQHL Driver Install button from the Drivers menu to copy the necessary files to your computer.
- 5. When Setup has finished installing all the necessary files to your computer, it prompts you to restart your computer. Click **OK**.



ASUS WHQL driver This item install ASU	IS WHQL driver for you graphics card.
Direct X This item installs the give you the best po	: latest Microsoft DirectX runtime libraries to ssible experience with graphics, sound, music
AGP GART driver This item installs the the chipset onboard.	necessary files to support AGP functionality o
WDM Capture driver This item installs the capture video from t	necessary files to allow applications to he video input port.



Some features of ASUS display card is not supported by the ATI WHQL driver.

2.4 DirectX

DirectX is a group of application program interface (API) and libraries for creating and managing graphic images and multimedia effects in applications such as games or active web pages that will run in Microsoft Windows operating systems.



The DirectX driver is automatically installed when you install the ASUS Enhanced driver from the support CD. However, it is recommended to re-install the DirectX driver when you download a driver update from the ASUS website.

- 1. Insert the support CD into your CD-ROM drive.
- If autorun is enabled, the 2D/3D Graphics & Video Accelerator appears automatically.

If autorun is disabled, run **Setup.exe** from the root directory of your support CD.

- 3. From the 2D/3D Graphics & Video Accelerator main menu, click **Drivers**.
- 4. Click the **DirectX Install** button from the **Drivers** dialog box to copy the necessary files to your computer.





Searching for updated DirectX Runtime Components and updating as necessary. This may take a few minutes...

 When Setup has finished installing all the necessary files to your computer, it prompts you to restart your computer. Click OK.

DirectXS	ietup 🔀
٩	DirectX setup needs to restart your machine, press OK to restart now.

2.5 AGP GART driver

The AGP GART driver is used to support the AGP functionality of the chipset on your motherboard.

- Installation dialog boxes are slightly different for each chipset.
 Follow the screen instructions to install the GART driver.
- The GART driver is automatically installed when you install the motherboard drivers from your motherboard support CD.
 However, it is recommended to install the GART driver if it is newer than the one from the motherboard support CD.
- 1. Insert the support CD into your CD-ROM drive.
- 2. If autorun is enabled, the 2D/3D Graphics & Video Accelerator appears automatically.

If autorun is disabled, run **Setup.exe** from the root directory of your support CD.

- From the 2D/3D Graphics & Video Accelerator main menu, click **Drivers**.
- Click the GART Driver Install button from the Drivers dialog box to install AGP support for motherboards with Intel[®], AMD[®], VIA[™], SiS[®], NVIDIA[®], ATI[®] or ALi[®] chipsets.
- 5. The AGP VGARTD Driver Detection box appears showing the chipset detected on your motherboard.
- Select an option to install the displayed VGART driver or to select from a list. Click OK.





GP VG & PTD Driver Detection	
OF YOARTD Driver Delection	
Welcome to ASUS VGARTD Driver Installation Program.	
The program has detected the chipset on your motherboard is:	
Intel 82443LX	
Do you want to install its VGARTD driver?	
Yes, install its VGARTD driver.	
O No. I want to select the other drivers.	
· · · · · · · · · · · · · · · · · · ·	
<u>E</u> xit	

7. If you selected **Yes, install its VGART driver** on the previous screen, proceed to step 8.

If you selected **No**, **I want to select the other drivers**, select a driver from the combo list box and click **Install**.

ase select one VGABTI	D driver to install
Intel Springdale GMU	

The appropriate driver for the detected motherboard chipset appears as default.

 Follow the succeeding instructions to complete the setup. Click Cancel if you wish to abort the installation.

🕈 Intel(R) Chipset Software Installation Utility - InstallShield(R) Wizard	×
Extracting Files The contents of this package are being extracted.	P.
Please wait while the InstallShield(R) Wizard extracts the files needed to install Intel(R) Chipset Software Installation Utility on your computer. This may take a few moments.	
Reading contents of package	
< Back Next > Cance	

9. When Setup has finished installing all the necessary files to your computer, it prompts you to restart your computer. Click **OK**.



2.6 WDM capture driver

The Windows Driver Model (WDM) capture driver allows you to capture video from the video input port.

- 1. Insert the support CD into your CD-ROM drive.
- 2. If autorun is enabled, the 2D/3D Graphics & Video Accelerator appears automatically.

If autorun is disabled, run **Setup.exe** from the root directory of your support CD.

- 3. From the 2D/3D Graphics & Video Accelerator main menu, click **Drivers**.
- 4. Click the **WDM Capture driver Install** button from the **Drivers** menu to copy the necessary files to your computer.





- 5. From the **ATI Software** setup dialog box, click **Next** to install the appropriate driver for your graphics card.
- 6. Follow succeeding screen instructions.



7. When prompted, select **Yes**, **I want to restart my computer now** then click **Finish**.



The WDM capture driver only works on graphics cards with video-in function.

2.7 Update display driver

Follow these steps to update your current VGA driver with a new driver file from the ASUS website.

- 1. Boot your computer.
- 2. Click the Start button. Select Settings, then Control Panel.
- 3. Double-click the **System** icon in the Control Panel. Select the **Hardware** tab.
- 4. Click **Device Manager**, then double-click on **Display** adapters.



5. Select the current display adapter then click on the **Properties icon**.

6. From the Properties dialog box, select the **Driver** tab then click on **Update Driver**.





8. Select the **Don't search. I will choose the driver to install** option, then click **Next**.

9. From the Hardware Update Wizard dialog box, click **Have Disk...**, then click **Next**.

Please choose your search and instal	
	lation options.
OSearch for the best driver in these loc	ations.
Use the check boxes below to limit or paths and removable media. The best	expand the default search, which includes local t driver found will be installed.
Search removable gedia (flopp	y.CD-ROM)
Include this lgcation in the sear	ch.
G:\	Biowse
Don't search. I will choose the driver I	to install.
the driver you choose will be the best	e diver non a na. Windows dues not guarantee mar match for your hardware.
	< Back Next > Cancel
lardware Update Wizard	
lardware Update Wizard Select the device driver you want to	install for this hardware.
Iardware Update Wizard Select the device driver you want to Select the manufacturer and model of here a disk that contains the driver you	install for this hardware.
Iardware Update Wizard Select the device driver you want to Select the nanufacturer and model of the nanufacturer and where a disk that contains the driver your select the theory of the select the driver you and the select the sele	install for this hardware.
Ardware Update Wizard Select the device driver you want to Select the manufacturer and model of have a disk that contains the driver yo Show compatible hardware Model ASUS A2005E	install for this hardware.
Isroware Update Wizard Select the device driver you want to Select the manufacturer and model of have a disk that contains the driver yo Show compatible hardware Model ASUS A32005E	install for this hardware.
Iardware Update Wizard Select the device driver you want to Select the device driver you want to Select the manufacturer and model of have a disk that contains the driver yo Show gompablie hardware Model ASUS A32005E	install for this hardware. I your hardware device and then click Next. If you ou want to install, click Have Disk.
Iardware Update Wizard Select the device driver you want to Select the menufacturer and model of have a disk that contains the driver your Show compatible hardware Model ASUS A92005E	install for this hardware.
Introvare Update Wizard Select the device driver you want to Select the device driver you want to Select the manufacturer and model of have a disk that contains the driver yo Show compatible hardware Model ASUS A32005E C This driver is not dipitally signed! Let me why driver signing is imported.	install for this hardware.

10. When setup prompts you for the location of the driver, type the path of the driver file. For example:

D:\Win2KXP\ATIxxxx.inf

OR

Click **Browse** to locate the saved driver file in your hard disk, network, floppy or CD-ROM drive.

- 11. Follow the succeeding screen instructions.
- 12. The application prompts you to restart your computer to complete the process. Click **Yes**.

2.8 Uninstall display driver

If you want to update your display drivers or if you no longer need the display drivers for your card, use one of the following methods to completely uninstall the drivers from your system.

2.8.1 Windows 98SE/ME

Using the Control Panel

- 1. Click on the **Start** button. Select **Settings**, then **Control Panel**.
- 2. Double-click the **Add/Remove Programs** icon in the Control Panel.
- 3. Select the **Install/Uninstall** tab to display a list of installed programs.
- 4. Highlight **ASUS Display Drivers** from the list, then click on the **Add/<u>R</u>emove** button.
- 5. Follow the succeeding screen instructions.
- 6. The application prompts you to restart your computer to complete the process. Click **Yes**.



2.8.2 Windows 2000

Using the Control Panel

- 1. Click the **Start** button. Select **Settings**, then **Control Panel**.
- From the Control Panel, double-click the Add/Remove Programs icon to display the Add/Remove Programs screen.
- 4. Highlight **ASUS Display Drivers** from the list, then click on the **Change/<u>R</u>emove** button.

🙀 Add/Remo	ve Programs		_ 🗆 🗙
1	Currently installed programs:	Sort by: Name	•
Change or Remove	🙀 ASUS Display Drivers		1
Add New Programs	To change this program or remove it from your computer, dist.Charge/Remove.	Change/Remov	
			~
	-		ilgse

- 5. Follow the succeeding screen instructions.
- 6. The application prompts you to restart your computer to complete the process. Click **Yes**.

3. Utilities3.1 Install Smart Doctor

The Smart Doctor utility monitors the VGA card condition and significantly cools down the VGA Graphics Processing Unit (GPU). This utility also allows you to adjust the graphics card clock settings.

- 1. Insert the support CD into your CD-ROM drive.
- If autorun is enabled, the 2D/3D Graphics & Video Accelerator appears automatically.

If autorun is disabled, run **Setup.exe** from the root directory of your support CD.

- 3. From the 2D/3D Graphics & Video Accelerator main menu, click **Utilities**.
- 4. Click the **ASUS SmartDoctor Install** button from the **Utilities** menu to copy the necessary files to your computer.
- 5. Follow the succeeding screen instructions.
- 6. Click **Finish**, when setup is complete.









The Smart Doctor utility works only for graphics card models with a built-in hardware monitor IC. If the hardware monitor IC is not present, only the SmartDoctor overclocking function will be installed.

3.2 Install VideoSecurity

VideoSecurity is a powerful security utility that detects any change in a specified surveillance region. Using video capture devices, video snapshots are captured automatically when there is a deviation in the user-defined surveillance region. An optional warning message is also sent via email or phone to the user.

- 1. Insert the support CD into your CD-ROM drive.
- 2. If autorun is enabled, the 2D/3D Graphics & Video Accelerator appears automatically.

If autorun is disabled, run **Setup.exe** from the root directory of your support CD.



- 3. From the 2D/3D Graphics & Video Accelerator main menu, click Utilities.
- 4. Click the VideoSecurity Install button from the Utilities menu to copy the necessary files to your computer.

- 5. From the Welcome screen, click **Next** then follow the succeeding screen instructions to complete setup.
- 6. Click **Finish**, when setup is complete.



Install

Install

3.3 Install ASUS Digital VCR

ASUS Digital VCR is a comprehensive video utility that allows you to watch and record TV programs on your PC. This utility also supports time-shift recording that allows you to record, watch and replay your favorite TV programs at the same time.

- 1. Insert the support CD into your CD-ROM drive.
- 2. If autorun is enabled, the 2D/3D Graphics & Video Accelerator appears automatically.

If autorun is disabled, run **Setup.exe** from the root directory of your support CD.



Series

ndows XP

Install

Cancel

s & Video Accelerator

3. From the 2D/3D Graphics & Video Accelerator main menu, click **Utilities**.

ASIIS VGA Serie

 Click the ASUS Digital VCR Install button from the Utilities menu to copy the necessary files to your computer.

- 5. From the Welcome screen, click **Next**. Follow the succeeding screen instructions.
- 6. Click **Finish**, when setup is complete.



3.4 Install ASUS GameFace

The revolutionary ASUS GameFace is a real-time audio/video communication feature that enhances your interactive gaming experience. This utility enables point-to-point video conferencing functions and online gaming to take place at the same time. With this feature, you can see and talk to your opponents while playing full-screen online games!

- 1. Insert the support CD into your CD-ROM drive.
- 2. If autorun is enabled, the 2D/3D Graphics & Video Accelerator appears automatically.

If autorun is disabled, run **Setup.exe** from the root directory of your support CD.



- 3. From the 2D/3D Graphics & Video Accelerator main menu, click **Utilities**.
- Click the ASUS GameFace Install button from the Utilities menu to copy the necessary files to your computer.



- 5. From the Welcome screen, click **Next**. Follow the succeeding screen instructions.
- 6. Click **Finish**, when setup is complete.



