/SLIS® V3800 Series

3D Multimedia Accelerator

USER'S MANUAL Hardware & Video Drivers

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CONTENTS

I. Introduction7
Highlights7
Available Models7
AGP Series7
ASUS AGP-V3800 Ultra Series7
ASUS AGP-V3800 Series7
ASUS AGP-V3800 Magic Series7
PCI Series
ASUS PCI-V3800 Ultra Series8
ASUS PCI-V3800 Series8
Specific Features
AGP-V3800 Ultra Series8
AGP-V3800 Series
AGP-V3800 Magic Series8
PCI-V3800 Ultra Series8
PCI-V3800 Series
Common Features
II. Hardware Installation10
ASUS AGP-V3800 Ultra Series Layout10
ASUS AGP-V3800 Series Layout11
ASUS AGP-V3800 Magic Layout12
ASUS PCI-V3800 Ultra Series Layout
ASUS PCI-V3800 Series Layout
ASUS VR-100 Optional Upgrade Kit
Installation Procedures
New Systems16
Systems with Existing VGA Card
III. Windows 95/9817
Operating System Requirements
Windows 95 OSR2.0 with USB Support
Windows 98
Driver Setup
Method 1: ASUS Quick Setup Program
Method 2: Display Property Page
Method 3: Plug and Play
ASUS Windows 95/98 Install Shell
Install Display Driver
Install DirectX
Install GART Driver

CONTENTS

Install ASUS Live Utility	
ASUS Main Panel	
ASUS Live Video	
Always On Top	
Show/Hide Video Source Option	
Video Capture	
Uninstall Display Driver	
Using the Autorun Screen	
Using Windows 95/98 Control Panel	
Install Acrobat Reader	
Install ASUS Tweak Utility	
Tweak Utility	
ASUS Control Panel	
Refresh Rate	
More Resolution	
Information	
Color	
Desktop	
D3D/Game	
General Functions	
Important Notes	
Display	
VGA	
TV	
Advanced	
3D/VR	
Direct3D	
OpenGL	
VrViewer (optional)	
Opening or Displaying a Stereoscopic or 3D File	
Testing the 3D Glasses	
Changing the View	
IV. Windows NT 4.0	
Install Display Driver	
Installation Procedures	
V. Resolution Table	
VI. Troubleshooting	
Description	55
Recommended Action	55

FCC & DOC COMPLIANCE

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.

WARNING! 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 Communications 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.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Introduction Ι.

Thank you for purchasing an ASUS V3800 Series Graphics and Video Accelerator. With the NVIDIA RIVA TNT2TM UltraTM/TNT2TM/TNT2TM M64TM built in, the ASUS V3800 Series graphics cards provide you with extremely fast acceleration in 2D/3D graphics and high quality scalable video playback, which can fully support 3D Business, Gaming, and Multimedia Applications.

Highlights

- Supports professional graphics design, Powerful 3D rendering gaming, learning, and business applications

 - Crisp, realistic images
- Flicker-free, high refresh rates for less eyestrain Striking cinema-quality video

Available Models

AGP Series

ASUS AGP-V3800 Ultra Series

- AGP-V3800 Ultra Deluxe (32MB Frame Buffer) VGA + Video-In + TV-Out + 3D Glasses (ASUS VR-100G Bundled Free!)
- AGP-V3800 Ultra/Pure (32/16MB Frame Buffer) Pure VGA (ASUS VR-100 Upgradeable)

ASUS AGP-V3800 Series

- AGP-V3800 TVR Deluxe (32/16MB Frame Buffer) VGA + Video-In + TV-Out + 3D Glasses (ASUS VR-100G Bundled Free!)
- AGP-V3800/TVR (32/16MB Frame Buffer) VGA + Video-In + TV-Out + 3D Glasses Support (ASUS VR-100G Upgradeable)
- AGP-V3800/TV (32/16MB Frame Buffer) VGA + Video-In + TV-Out (ASUS VR-100 Upgradeable)
- AGP-V3800/T (32/16MB Frame Buffer) VGA + TV-Out (ASUS VR-100 Upgradeable)
- AGP-V3800/Pure (32/16MB Frame Buffer) Pure VGA (ASUS VR-100 Upgradeable)

ASUS AGP-V3800 Magic Series

- AGP-V3800M/T (32/16 MB Frame Buffer) VGA+ TV-Out (ASUS VR-100 Upgradeable)
- AGP-V3800M/Pure (32/16MB Frame Buffer) Pure VGA (ASUS VR-100 Upgradeable)

PCI Series

ASUS PCI-V3800 Ultra Series

- **PCI-V3800 Ultra/TV** (32/16MB Frame Buffer) VGA + Video-In + TV-Out (ASUS VR-100 Upgradeable)
- **PCI-V3800 Ultra/T** (32/16MB Frame Buffer) VGA + TV-Out (ASUS VR-100 Upgradeable)
- **PCI-V3800 Ultra/Pure** (32/16MB Frame Buffer) Pure VGA (ASUS VR-100 Upgradeable)

ASUS PCI-V3800 Series

- PCI-V3800/TV (32/16MB Frame Buffer) VGA + Video-In + TV-Out (ASUS VR-100 Upgradeable)
- **PCI-V3800/T** (32/16MB Frame Buffer) VGA + TV-Out (ASUS VR-100 Upgradeable)
- **PCI-V3800/Pure** (32/16MB Frame Buffer) Pure VGA (ASUS VR-100 Upgradeable)

Specific Features

AGP-V3800 Ultra Series

- Built-in NVIDIA RIVA TNT2TM UltraTM 128-bit 3D Graphics and Video Accelerator
- 300MHz Palette-DAC

AGP-V3800 Series

- Built-in NVIDIA RIVA TNT2[™] 128-bit 3D Graphics and Video Accelerator
- 300MHz Palette-DAC

AGP-V3800 Magic Series

- Built-in NVIDIA RIVA TNT2TM M64TM 128-bit 3D Graphics and Video Accelerator
- 250MHz Palette-DAC

PCI-V3800 Ultra Series

- Built-in NVIDIA RIVA TNT2 UltraTM 128-bit 3D Graphics and Video Accelerator
- 300MHz Palette-DAC
- PCI Slot Support

PCI-V3800 Series

- Built-in NVIDIA RIVA TNT2™ 128-bit 3D Graphics and Video Accelerator
- 300MHz Palette-DAC
- PCI Slot Support

Common Features

- AGP Series only: Bus mastering AGP V2.0 slot interface with full sideband and "Execute" model support
- Optimized for Direct3D acceleration with complete support for DirectX 5.0 and 6.x features, such as multi-texturing, bump mapping, texture modulation, light maps, full-scene anti-aliasing, and Trilinear and 8-tap Anisotropic filtering (better than Trilinear Mip mapping)
- OpenGL ICD support in Windows 95/98, Windows NT, and Windows 2000
- TwiN-Texel (TNT) 32-bit graphics pipeline providing 2 texture mapped, lit pixels per clock and single pass multi-texture rendering
- 32-bit ARGB rendering with destination alpha, 16- or 24-bit Z buffer, 8-bit stencil buffer
- 100% hardware triangle setup engine
- High performance 128-bit 2D/GUI/DirectDraw acceleration
- Planar YUV12 (4:2:0) to/from packed (4:2:2) Color Space Conversion for software MPEG acceleration and H.261 video conferencing applications
- DVD sub-picture alpha blend compositing
- Video Acceleration for DirectShow MPEG 1/2 and Indeo
- VESA DDC2B+, DPMS, VBE 2.0/3.0 support





II. Hardware Installation

• Components enclosed in dotted boxes are not available in and $\mathbb{T}_{\mathcal{T}}$ cannot be connected at the same time. 32MB or 16 MB Frame Buffer Use the same TV standard for all devices. For example, if your TV uses the NTSC standard, then you should set JP1 to "NTSC." The VIP (Video Interface Port) Connectors are used for third party add-on modules, such as video capture cards or television tuners. • Use the same TV standard for all devices. NVIDIA RIVA TNT2[™] Graphics Processor Chip with Fan the Pure model of this Series. ASUS AGP-V3800 Series Layout FAN_PWR VGA BIOS Decoder VIP Connector B 32MB / 16MB Frame Buffer Digital PC to TV Encoder 1 2 3 PAL JP1 ЪЧ 50 NOTES ÷ SVHS/TV output (7pin) (video moc 1 VGA Monitor output (15pin) (standard) composite/TV output (RCA) (video model) VR Glasses Output (TVR I CCD/camcorc input/Tuner/ TV Box Input (7pin) (video I 1 All other models: ASUS VR-100 upgradeable (see page 15) O $\left| \right\rangle$ ***** This User's Manual (with Adobe[®] Acrobat[®] PDF copy) Д Composite (RCA) Outpr ASUS AGP-V3800 Series card (PAL or NTSC) ASUS V3800 Series Driver & Utility CD Disc All except Pure: Video-in and TV-out cables VGA Output S-Video Output Video Input (ASUS Video) Zpin S compatible 3D Glasses (ASUS VR-100G) S-Video to Composite Cable TVR Deluxe only: ASUS VR-100G Composite (RCA) Inpu **F model**: TV-out cable only I 111 1 Item Checklist CATV $\nabla \nabla$ $\mathbf{D}\mathbf{D}$ $\mathbf{\Sigma}$

II. Installation

AGP-V3800



ASUS AGP-V3800 Magic Layout 32MB / 16MB Frame Buffer



Item Checklist

ASUS AGP-V3800 Magic Series card (PAL or NTSC) All except Pure: TV-out cable

ASUS VR-100 upgradeable (*see* page 15) This User's Manual (with Adobe[®] Acrobat[®] PDF copy) ASUS V3800 Series Driver & Utility CD Disc

• Components enclosed in dotted boxes are not available in

NOTE

- the Pure model of this Series.
 - Use the same TV standard for all devices.



ASUS V3800 Series User's Manual

PCI-V3800 Ultra





ASUS VR-100 Optional Upgrade Kit

The ASUS VR-100 Optional Upgrade Kit enables the ASUS VR-100G 3D Glasses to be used with non-TVR models of the V3800 Series cards. *See* your dealer for more information on the ASUS VR-100 Optional Upgrade Kit.

The monitor cable that came with your kit may be of the Y- or standard type. Connect your cable accordingly.

Y-Type Connection



When using a Y-type cable, you do not need to connect the VGA Input of the VR-100 to your VGA card's monitor output (*see* diagram above).

Standard Connection



You must anchor the ASUS VR-100's mounting bracket with a screw to a free expansion slot in your computer chassis.

NOTE: The AGP series of this graphics card can only be installed in motherboards with an AGP slot, while the PCI series can only be installed in a PCI slot.

WARNING! Computer boards and components contain very delicate Integrated Circuit (IC) chips. To protect the computer board and other components against damage from static electricity, you must follow some precautions.

- 1. Make sure that you unplug your power supply when adding or removing expansion cards or other system components. Failure to do so may cause severe damage to both your motherboard and expansion cards.
- 2. Keep all components such as the host adapter in its antistatic bag until you are ready to install it.
- 3. 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. Hold components by the edges and try not to touch the IC chips, leads, or circuitry.
- 4. Place components on a grounded antistatic pad or on the bag that came with the component whenever the components are separated from the system.

Installation Procedures

New Systems

- 1. Unplug all electrical cords on your computer.
- 2. Remove the system unit cover.
- 3. Locate the AGP/PCI bus expansion slot. Make sure this slot is unobstructed.
- 4. Remove the corresponding expansion slot cover from the computer chassis.
- 5. Ground yourself to an antistatic mat or other grounded source .
- 6. Pick up the board (still in its sleeve) by grasping the edge bracket with one hand and then remove the plastic sleeve.
- 7. Position the card directly over the AGP/PCI slot and insert one end of the board in the slot first. Firmly but gently press the bus connector on the bottom of the card down into the slot. Be sure the metal contacts on the bottom of the host adapter are securely seated in the slot.
- 8. Anchor the board's mounting bracket to the computer chassis using the screw from the slot cover that you set aside previously.
- 9. Replace the cover on the system unit.
- 10. Connect your analog monitor's 15-pin VGA connector to the card and fasten the retaining screws (if any).
- 11. Connect other cables and devices if available -You are now ready to install the software drivers and utilities.

Systems with Existing VGA Card

- 1. Change your display driver to Standard VGA.
- 2. Shut down your computer and unplug all electrical cords.
- 3. Replace the existing VGA card with a V3800 series graphics card.
- 4. Restart your computer.
- 5. Install the ASUS V3800 series display driver.

Operating System Requirements

NOTE: The AGP series of this graphics cards require a motherboard with an AGP slot, while the PCI series require a PCI slot.

Windows 95 OSR2.0 with USB Support

Windows 95 OSR2.0 supports AGP cards, but to take advantage of all the AGP features, you must use Windows 95 OSR2.0 and install the USB upgrade and then install the VGARTD driver for the corresponding chipset on your motherboard (*see* **III. Windows 95/98 Install GART Driver**).

To install Win95 OSR2.0 with USB support, you must have OSR2.0 installed already. Otherwise, first install OSR2.0 and then use the USB support update (you must use the same update language of your Windows language). On the April 1997 MSDN Disc-1 "Windows 95, SDKs, and Tools", OSR2.0 is found in "\OSR2" while the USB support update is found in "\OSR2\USBSUPP". To determine the installed version of the operating system, look in the registry at:

 $\label{thm:local_machine} HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\Current\Version\Version\Number \end{tabular} Windows\Current\Version\Version\Number \end{tabular} with the set of the set of$

OSR2.0 with USB has: Version "Windows 95" and VersionNumber "4.03.1212" or "4.03.1214".

Windows 98

Windows 98 supports full Direct3D and AGP features. If you are still using the beta version of Windows 98 and you want to fully take advantage the Direct3D and AGP features, you must upgrade your current Windows to the release version before installing the AGP display driver.

Windows 98 includes VGARTD for the major chipsets but it is recommended that you install VGARTD from the ASUS V3800 Series CD to make sure that you have the latest version of VGARTD (*see* **III. Windows 95/98 Install GART Driver**).

NOTES

- For other notes or release information, see the README files in the installation CD.
- This Manual assumes that your CD-ROM disc drive is drive D: and that Windows is in C:\WINDOWS. Replace either with the actual location, if necessary.

Driver Setup

You can use one of three methods to install the Windows 95/98 drivers for your ASUS AGP-V3800 series graphics card.

NOTE: Method 2 and Method 3 will not install the appropriate AGP GART driver if your motherboard does not use the Intel AGPset. Installing the AGP GART driver will ensure that the AGPset's AGP functions are available. Method 2 and Method 3 will not install also the DirectX runtime libraries. DirectX must be installed so that your video player can take advantage of hardware acceleration. *See* **III. Windows 95/98 Install GART Driver** and **III. Windows 95/98 Install DirectX** later in this manual for the setup steps.

Method 1: ASUS Quick Setup Program

NOTE: *See* III. Windows 95/98 | ASUS Windows 95/98 Install Shell | Install Display Driver for detailed steps.

- 1. Start Windows.
- 2. Switch display to Windows' Standard Display Adapter (VGA) mode and then restart Windows.
- 3. Insert the CD installation disc into your CD-ROM drive.
- 4. The ASUS Windows 95/98 Install Shell appears. Click **Drivers and Utilities** and then click **Install Display Driver** on the **Drivers** dialog box.



- 5. Follow the onscreen instructions to complete the setup.
- 6. When Setup has finished installing all the necessary files on your computer, it will prompt you to restart your computer. Click **Yes...** and then **Finish** to restart your computer and to complete Setup.

Method 2: Display Property Page

- 1. Start Windows.
- 2. Switch display to Windows' Standard Display Adapter (VGA) mode and then restart Windows.
- 3. Right-click the Windows desktop and click **Properties**.
- 4. Click the **Settings** tab and then click **Advanced**. The **Standard Display Adapter** (**VGA**) **Properties** dialog box appears.



- 5. Click **Change** on the **Adapter** tab. The **Update Device Driver Wizard** dialog box appears. Click **Next**, click **Display a list of all the drivers**... and then click **Next**.
- 6. Click **Show all hardware** and then click **Have Disk...**.When the **Install From Disk** dialog box appears, type the location of the ASUS3800.INF file and then proceed to step 9. Otherwise, proceed to the next step.
- 7. Click **Browse** to search the CD-ROM drive. In the **Drives** box of the **Open** dialog box, select your CD-ROM drive and then click **OK**.
- 8. In the **Folders** box, double-click the WIN95 folder and then select ASUS3800.INF in the **File name** box.
- 9. Click **OK**. A list of video cards appears. Select your VGA card type for your operating system and then click **OK**.
- 10. The **Update Driver Warning** box appears. Click **Yes** to confirm the setting up of the ASUS enhanced display drivers and then follow the onscreen instructions to start the setup.
- 11. Setup will prompt you when it has finished installing all the necessary files on your computer. Click **Finish** to close Setup.
- 12. When you are returned to the **Standard Display Adapter (VGA) Properties** box, click **Close**. The **Display Properties** box appears. Click **Close**.
- 13. The system will prompt you to restart your computer. Click **Yes** to restart your computer and to complete Setup.

Method 3: Plug and Play

NOTE: Before proceeding with these steps, replace first your old VGA card with an ASUS V3800 series graphics card.

- 1. Start Windows.
- 2. When Windows detects your ASUS V3800 series graphics card, the **New Hardware Found** dialog box appears.

New Hardware Found
PCI VGA-Compatible Display Adapter
Select which driver you want to install for your new hardware:
O Windows default driver
C Driver from disk provided by hardware manufacturer
Do not install a driver (Windows will not prompt you again)
O Select from a list of alternate drivers
Cancel Help

- 3. Click Driver from disk provided by hardware manufacturer.
- 4. When Setup prompts you for the location of the driver, type D:\WIN95 to direct Setup to the INF file and then click **Finish** to install the driver.
- 5. When Setup has finished installing all the necessary files on your computer, it will prompt you to restart your computer. Click **Yes** to restart your computer and to complete Setup.

ASUS Windows 95/98 Install Shell

Install Display Driver

 Insert the CD installation disc into your CD-ROM drive or double click the CD drive icon in My Computer to bring up the autorun screen or run Setup.exe in the root directory of your CD-ROM drive.

Click Drivers and Utilities.

2. The **Drivers** box appears. Click **Install Display Driver** to install all the drivers and utilities into your computer. Setup will install the drivers and utilities in the following order: Display Driver, DirectX runtime libraries, Direct3D and OpenGL Drivers for games. Just follow the onscreen instructions to complete the installation.



If you prefer to install the drivers and utilities individually, follow the steps on the following pages.

Install DirectX

Microsoft DirectX allows 3D hardware acceleration support in Windows 95/98. For Software MPEG support in Windows 95/98, you must first install the **Microsoft DirectX** libraries, and then an MPEG-compliant video player.

1. Insert the CD installation disc into your CD-ROM drive or double click the CD drive icon in My Computer to bring up the autorun screen or run **Setup.exe** in the root directory of your CD-ROM drive.

Click **Drivers and Utilities**.

- Windows 95/9 Install DirectX
- 2. The **Drivers** box appears. Click **In**stall **DirectX** to install the DirectX libraries.

- 3. The installation program will automatically install the DirectX 6 runtime libraries into your system.
- O Drivers

 Install Display Griver

 Install Display Griver

 Install ASUS Live Utility

 Install ASUS

Installing Microsoft(R) DirectX(R)

ASUS V3800 Series

20/30 Grephics &

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

4. Setup will prompt when it has finished copying all the files to your computer. Click **OK** to finish the installation.



Install GART Driver

The AGP GART Driver is used to support AGP functionality for the chipset on your PC's motherboard. It is recommended to install the GART driver if it is newer than the one you have installed in your system. You do not have to install the GART driver if you have the PCI series of this graphics card.

NOTE: Installation dialogs are slightly different for each chipset. Follow the onscreen instructions to finish the VGARTD installation. The succeeding steps assume that you are installing for an Intel AGPset.

 Insert the CD installation disc into your CD-ROM drive or double click the CD drive icon in My Computer to bring up the autorun screen or run Setup.exe in the root directory of your CD-ROM drive.

Click Drivers and Utilities.

2. The **Drivers** box appears. Click **Install GART Driver** to install AGP support for motherboards with Intel, VIA, SiS, or ALi AGPsets.

3. A message appears that the VGARTD driver is only required for AGP boards. Click **Yes** to continue to install the driver.





4. The AGP VGARTD Driver Detec- tion box appears with the chipset de- tected on your motherboard. Click OK to install the appropriate driver for your AGPset.	AGP VGARTD Driver Detection Velocome 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? Image: Yes, install its VGARTD driver. Image: Yes, install its VGARTD driver. No. I want to select the other drivers.
5. If you selected No , on the previous screen before clicking OK , you will be presented with a selection of other drivers. Make your driver selection and click Install .	Please select one VGARTD driver to install: Intel 82443LX Exit
6. When the Welcome screen appears, click Next to continue.	
7. Once the driver installation is fin- ished, click Finish.	Setup Couplet Setup Couplet Setup has finished copping lifes to your computer. Setup you can use the program, you must rester Windows or our computer is an example. Setup has finished copping lifes to your computer. Setup has finished copping lifes to your computer area. Setup has finished copping lifes to your computer area. Setup has finished copping lifes to your computer area. Setup has finished copping lifes to your computer area. Setup has finished copping lifes to your computer area. Setup has finished to your computer area. Setuphas finished to your computer area.

Install ASUS Live Utility

The ASUS Live utility lets you view and capture video images from the card's video input port.

NOTE: Make sure that you have an ASUS graphics card with VIDEO-IN connector before attempting to install the utility.

1. Insert the CD installation disc into your CD-ROM drive or double click the CD drive icon in My Computer to bring up the autorun screen or run **Setup.exe** in the root directory of your CD-ROM drive.

Click Drivers and Utilities.

2. The **Drivers** box appears. Click **Install ASUS Live Utility**.





3. When the **Welcome** box appears, click **Next** to start copying the files. Setup automatically starts copying the necessary files to the default folder.

To complete the installation, simply follow the onscreen instructions.



🔢 ASUS Live Video

The ASUS Live utility software can be used to:

- 1. View images using your monitor as screen from traditional consumer devices, such as videocassette players, camcorders, digital cameras, and laser disc players through the onboard RCA or SVHS VIDEO-IN connectors (TV and TVR models only).
- 2. Capture live motion video up to 30 frames/second (minimum system requirement: Pentium II/266).
- 3. Play any *.AVI file.

NOTE: You should already have installed DirectX 6 or higher to use ASUS Live (*see* **III. Windows 95/98 Install DirectX**)

To run the utility, click **Start** and point to **Programs** and then **ASUS Live** and then click **ASUS Live**.

You may also run ASUS Live by clicking or right-clicking the ASUS Control Panel icon (*see* **III. Windwos 95/98 ASUS Control Panel**) on the taskbar's status area to display the ASUS Control Panel, pointing to **ASUS Live Video**, and then clicking it.

To uninstall the software, click **Start** and point to **Programs** and then **ASUS Live** and then click **Uninstall**. You may also uninstall the software using the **Add/Remove Programs Properties** dialog box at the **Windows Setup** tab. *See* Windows online help for more information on removing a Windows component.



ASUS Main Panel

Always On Top

The **Always On Top** option is provided for users who may wish to continue watching VCD/DVD/TV programs while doing other tasks, such as when downloading files from the Internet or word processing. To keep your display screen always on top of other programs, rightclick the display screen and then click the **Always On Top** button. Position the screen where it will not interfere with your other tasks.



Show/Hide Video Source Option

When first using ASUS Live, you must set up the video source. By clicking the **Show/Hide Video Source Options** button on the ASUS Main Panel, you can show or hide the video source setup screen.

Brightness				16
Contrast				18
Seturation			• • • • • • • • • • • • • • • • • • • •	16
Hue				16
Video Connector	Composite	S - Video	Tuner	
Video	NTSC - M	NTSC - N	NTSC - 4.43	
Stenderd	PAL - BGHI	PAL - M	PAL - N	PAL - 4.43

Use the Up or Down Buttons on the ASUS Main Panel or the UP and DOWN arrow keys on your keyboard to select Video Connector and then the Left and Right Buttons or the LEFT and RIGHT arrow keys to set your video connection (*Composite*, *S-Video*, or *Tuner*) or video standard (*NTSC-M*, *NTSC-N*, *NTSC-4.43*, *PAL-BGHI*, *PAL-M*, *PAL-N*, or *PAL-4.43*).

NOTE: Users with the PAL D/K models should select PAL-BGHI for the Video Standard.

If desired, you may adjust the Brightness, Contrast, Saturation, and Hue of your display by using the video source setup screen. Use the Up or Down Buttons on the ASUS Main Panel or the UP and DOWN arrow keys on your keyboard to select the desired option and then the Left and Right Buttons or the LEFT and RIGHT arrow keys to make the desired adjustments.

Click again the **Show/Hide Video Source Options** button on the ASUS Main Panel to exit from the video source option screen.

Video Capture

IMPORTANT! It is the intent of ASUS that this product be used in full compliance with the copyright laws of your respective and other countries and that prior permission be obtained from copyright owners whenever necessary.

When you install the Windows 95/98 Driver of your ASUS graphics card (only models with the VIDEO-IN connector), the video capture driver will automatically be installed on your system. This video capture driver follows Microsoft Video for Windows standard and can open **up to a capture window size of 704 x 480**. It can be used with some applications that use video capture as an option, such as video conferencing, net meeting, or digital video authoring applications.

IMPORTANT! You must enable the DMA transfer mode of your hard disk (EIDE HD) to get the maximum data transfer capability (**704 x 480, 30 frames/second**) during the video capture process. Otherwise, your system may become unstable.

Enabling DMA Transfer Mode

NOTE: The **How to Get Maximum Capture Performance** dialog box will appear if you did not enable the DMA transfer mode of your hard disk when you you initially open ASUS Live. Simply follow the onscreen instructions to enable DMA mode. Otherwise, do the following:

1. Click **Start**, point to **Settings**, and then click **Control Panel**.



- 2. Double-click the **System** icon. The **System Properties** dialog box appears.
- 3. Click the **Device Manager** tab and then click the plus sign next to **Disk drives**, and then double-click your hard disk. The hard disk's **Properties** box appears.
- 4. Click the Settings tab and then select the DMA check box under Options.

Capturing Images

You must be in capture mode to capture images. To do this, click the **Capture Mode** button on the ASUS Main Panel.

NOTE: ASUS Live will automatically detect and warn you if the capture driver installed in your system is not compatible with ASUS Live.

Video Recording Set

Video Capture

Click Capture Settings to select the video recording settings, such as the Frame Rate (fps) (default: 30), Maximum Capture Time (default: 10 seconds), Video Size Format and File name and path (default: C:\CAPTURE.AVI).

Click **Advanced** for more advanced video recording settings.

2. The Video Recording Advanced Setting dialog box appears.

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© AVI			
File same C5s	apture.avi		Resame
Advanced	Tip	ОК	Cancel
		New State	

Video Format	Setting
AVI CODEC	Setting
AVI Audie	Setting
Taylack Setting	
Playback after Recording	g

Under Video Setting, select the Video Format, AVI CODEC, and **AVI Audio** setting of your choice.

Under Playback Setting, select whether you want or not to **Playback** after Recording.

If you have limited space on your hard disk, you may want to limit the capture file size to a certain size. To do this, select Preallocate file to... under Playback Setting and enter the desired maximum file size.

You are now ready to capture AVIformatted video images.

Video Format

ASUS Video Format	1 ×
Intege Dimensions	T nr 1
704 × 480	
1/4 1/2 Eul	Cancel
jinage Format	
ASUS Video ASV1 💌	

AVI CODEC

Compression	DK.
No Recompression	Carcel
ererer Civy.	(celore

Capture Picture Format

C 8 50

Image Setting

Image Viewer 1

nage File name 1

P Show Picture after Snapshot

AVI Audio

A dialog box appears depending on whether you have audio set on your system.

C 16 bit

C:\capture.bmp

P Store image use consecutive numbered filename

×

Rename

Cancel

24 bit

Clprogram files Accessor Browse ...

0K

SnapShot

1. Click **SnapShot Setting** to select your Capture Picture Format (default: 24 bit) and Image Setting.

Under **Image Setting**, you may set your desired **Image Viewer** (*default*: MSPAINT.EXE or Microsoft[®] Paint) and **Image File name** and path (*de*fault: C:\CAPTURE.BMP) and set to Show Picture after Snapshot and/ or Store image use consecutive numbered filename. Show Picture after Snapshot is convenient during a net meeting when you need to annotate a captured image and send back to your correspondent.

You are now ready to capture BMPformatted video images.

Video Format Setting

1. Click Video Format to select the **Image Dimensions** (*default*: 352 x 240) and **Image Format** (*default*: ASUS Video ASV1) for your capture.

ASUS Video Format	<u> 1</u> ×
Image Dimensions	OK.
1/8 1/2 E#	Cancel
(mage Formal:	
ASUS Video ASV1	

Video Snapshot (F5)

Video Snapshot lets you capture video stream data as single images and then show these images on your desktop almost simultaneously through the image viewer you selected. It supports any plug-in picture viewers or image processing programs (*see* Step 3 in **Capturing Images**) to view the captured images.

To begin capturing, do the following:

- 1. Click the **Video Snapshot (F5)** button on the ASUS Main Panel or press the F5 key to capture the desired image on ASUS Live's display screen. The screen will freeze momentarily and the captured image (saved as a BMP file, using consecutive numbers) will immediately be displayed on your image viewer.
- 2. Repeat Step 1 as necessary.

Capture Frames (F6)

Capture Frames lets you capture video stream data as consecutive images and then show these images on your desktop through your default movie player. **Capture Frames** is useful in animation.

To begin capturing, do the following:

- 1. Click the **Capture Frames (F6)** button on the ASUS Main Panel or press the F6 key to open the **Capture Frames** box.
- 2. Click **Capture** to begin capturing the desired frame or frames on ASUS Live's display screen and then click **Done** when finished. The initial frame of the captured video (saved as an AVI file) will immediately be displayed on your movie player.
- 3. Click the PLAY button of your player to view the captured video.

Video Recording (F7)

Video Recording lets you capture video stream data continuously and then show these images on your desktop through your default movie player.

To begin capturing, do the following:

- 1. Click the **Video Recording (F7)** button on the ASUS Main Panel or press the F7 key.
- 2. Follow the onscreen instructions to begin and then stop recording.

Uninstall Display Driver

If you want to update your display drivers or if you no longer need the AGP-V3800 display drivers, you can use one of the following procedures to completely uninstall the drivers from Windows 95/98 to save disk space.

Using the Autorun Screen

- 1. Insert the CD installation disc into your CD-ROM drive or double click the CD drive icon in My Computer to bring up the autorun screen or run **Setup.exe** in the root directory of your CD-ROM drive.
- 2. Click **Uninstall Display Driver** and follow the onscreen directions.



- 1. Click **Start**, and then point to **Set**-tings.
- 2. Click Control Panel.
- 3. Double-click the Add/Remove Programs icon.
- 4. Click the Install/Uninstall tab.
- 5. Click ASUS AGP-V3800 Display Driver from the list.
- 6. Click Add/<u>R</u>emove.
- 7. The system will prompt you to restart your computer. Click **Yes** to restart.





. Windows 95 Uninstall Drive

Install Acrobat Reader

Acrobat Reader is necessary for reading the PDF copy of this manual.

 Insert the CD installation disc into your CD-ROM drive or double click the CD drive icon in My Computer to bring up the autorun screen or run Setup.exe in the root directory of your CD-ROM drive.

Click **Drivers and Utilities**.

2. The **Drivers** box appears. Click **Install Acrobat Reader**.



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Drivers	CONTRACTOR OF THE OWNER OWNE		
Install D	isplay Driv	(##	
Install D	Ires 1X		
Install G	ART Drive	*	
U e lo s t e	II Display 1		
Instell /	Adrobat Re	ader	
Install A	BUB TWEE	h.U.tillity	

3. When the Acrobat Reader x.x Setup box appears, click Next.



4. When the **Software Licese Agreement** box appears, click **Accept** to signify your acceptance of the License Agreement.



5. When the **Choose Destination Location** box prompts you for a destination folder, click **Next** to select the default location. Setup starts to copy the necessary files to your computer.

house Destination	ocation	×
	Setup will instal Acrobat Reader 4.0 in the follow	ing folder
- Com	To install to this folder, click Next.	
AC	To install to a different folder, slick Exonore and a folder.	elect another
	You can chose not to initial Account Reader 41 Cancel to evil Serve	l liy dicking
A	Destination Folder C: Phogram File/Udobb/Ucodoal 6.0	Ejowa.
	(fiel. Met)	Cartor



6. When Setup has finished copying files to your computer, click **Yes**, **I want to restart my computer now** and then click **Finish** to restart your computer to begin using Acrobat Reader. You may select **No**, **I will restart my computer later** if you still want to install other software or want to use your computer and then click **Finish**.

 Setup Executiv

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Install ASUS Tweak Utility

The ASUS Tweak Utility lets you control the core clock speed and the memory interface speed of your graphics card.

WARNING! Use this option with caution. Using this inappropriately may damage your card and cause your system to be unstable.

1

2 1

611

ASUS V3800 Series

 Insert the CD installation disc into your CD-ROM drive or double click the CD drive icon in My Computer to bring up the autorun screen or run Setup.exe in the root directory of your CD-ROM drive.

Click Drivers and Utilities.

2. The Drivers box appears. Click Install ASUS Tweak Utility



3. When the **Welcome** box appears, click **Next**.



4. When the **Information** box apears, click **Next** to signify your acceptance of the warning and other related information.

Setup starts to copy the necessary files to your computer. Follow the onscreen intructions to complete the installation.





WARNING! Use the ASUS Tweak Utility with extreme caution and only if you are well acquainted with your display card. Using this inappropriately may damage your card, its components, and your system.

To run the ASUS Tweak Utility, click **Start** and point to **Programs**, **Asus**, **Tweak-ing Utilities**, and then click **Tweak**.

Timing Adjustment

Timing Adjustment lets you adjust the working frequency of the graphic engine and video memory.

Graphics Speed

Engine Lets you adjust the working frequency of the graphic engine

Memory Lets you adjust the working frequency of the video memory.

Default Restores the settings to their defaults.

Test settings Lets you test your settings.

Use tweak settings on next startup Selecting this allows you to use your settings when Windows starts.

ASUS Tweaking Utility Properties
Timing Adjustment
✓ Use tweak settings on next startup
Graphics Speed
Engine 125 MHz
Memory 150 MHz
Load default
AGP-V3800
2D Test 3D Test
OK Cancel Apply

Tweak Safe Mode Recovery

Timing Adjustment (Safe Mode) lets you restore the working frequency of the graphic engine and video memory to their factory default settings. This mode is used when you encounter problems when starting or restarting Windows using your customized tweak settings.

Using Tweak Safe Mode Recovery

- 1. Restart Windows in safe mode. To start Windows in safe mode, hold the F8 key until the Windows Startup Menu appears. For some machines and Windows 98, you can use CTRL to bring up the Startup Menu. Enter the number for **Safe mode** and then press ENTER.
- 2. In Windows, click **Start** and point to **Programs**, **Asus**, **Tweaking Utilities**, and then click **Tweak Safe Mode Recovery**.
- 3. The ASUS Tweak Safe Mode Properties box appears. Click the appropriate settings.

Timing Adjustment (Safe Mode) Select the **Clear tweak settings and use factory default** box to change back the timing adjustment settings to their factory defaults and then click **OK** to restart Windows properly.



ASUS Control Panel

After installation of the display drivers, you will find an ASUS icon on the taskbar's status area. Clicking or right-clicking this icon opens the ASUS Control Panel, showing a menu composed of shortcuts of the graphics board's enhanced and other functions.

NOTE: Instead of clicking the ASUS Control Panel icon, you may right-click the Windows95/98 desktop, click **Properties**, and then click **Settings**. Under Windows98, click **Advanced** after clicking **Settings**. Click the appropriate tab to change your display settings.



Refresh Rate

Refresh Rate lets you change the refresh rate of your current screen resolution.

WARNING! Be sure that the refresh rate that you select is supported by your monitor. Selecting a refresh rate that is beyond your monitor's specification may damage it. **Press ESC to restore your original settings in case of problems.**

1. Click/right-click the ASUS Control Panel icon, point to **Refresh Rate**, and then click the desired refresh rate.





SE 1	Click OK to keep cu	rent setting, CANCEL to abort
	Time left	: 7
	OK	Cancel

More Resolution

More Resolution lets you change the screen resolution of your monitor.

1. Click/right-click the ASUS Control Panel icon, point to More Resolution, and then click the desired screen resolution. The system will automatically set the resolution selected without restarting your computer.

WINDOWS95 USERS: You will be prompted to restart your computer if you select a screen resolution with a different color depth, for example, from 800x600 HiColor to 800x600 TrueColor. Click **OK** to restart your computer to make the change.



Information lists the relevant information about your card. Aside from this, it has links to the ASUSTeK COM-PUTER, INC. web site for updated information about the graphics board, latest drivers, and other information.





You must reboot to take effect, do you want to reboot?

Cancel

OK

ndows 95/98 lore Resolution



Color

Color allows you to make color adjustments, such as brightness, contrast, and gamma values for each or all of the RGB colors. These adjustments can be made for Desktop and D3D/Game. This function is not available in 8-bit color depth.

Desktop

Desktop lets you adjust the color of your Windows 95/98 desktop.



D3D/Game

D3D/Game lets you make your favorite color settings for D3D games.

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Internation 🛃 Calor 🛃 Dupley 🛃 /	Advanced
AGP-V380	0
Desktop D30/Garver	
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Losddelault	
Color Spilme	Patrieten Halkep
C Red	Bightett D
C Green	0.00
CBa	
FA	Game

General Functions

Brightness / Contrast / Gamma Brightness / Contrast / Gamma sliders let you calibrate the brightness, contrast, and gamma output of your display card.

Desktop

Changes to your color settings are shown immediately on your monitor. You may change the preview picture by clicking **Load** from the **Desktop** box.

D3D/Game

Changes to your color settings can be viewed by clicking **Preview**. When playing a **<u>full-screen</u>** DirectDraw/ Direct3D game, changes can be interactively made if **Hotkey** is enabled.

Color Spline

Color Spline shows how each (R, G, or B) or all channels are distributed when you move the Brightness, Contrast, or Gamma slider to make your adjustments. You can adjust all channels at once (**All**) or individual channels (**R**, **G**, or **B**).

Scheme

Scheme lists schemes that you can use to change the appearance of many screen elements simultaneously. You can use existing schemes, or create and save your own scheme by saving your current settings, or delete unwanted schemes. You may want to save a scheme that you created for some special situations, such as when you want to use the same settings when playing a certain game or a movie.



Dragging a slider to the left decreases the level and to the right increases it. The number at the right of each slider displays the brightness (value range: - 128 to +128, default: 0), contrast (-30 to 30, default: 0), or gamma value (0.2 to 3.0, default: 1.0).





Hotkey

Hotkey lets you assign hot keys to adjust color settings interactively while playing a DirectDraw/Direct3D game or watching a movie. To use this function, click Hotkey to open the Hot Key box and then select Enable Hotkey. You may want to change the default hot keys when they conflict with hot keys of certain games, video players, or Windows programs.

To change the default hot keys

- 1. In the **Name** list under **Paning hotkey control**, click the hot key control that you want to change and then click the **Hotkey** box.
- 2. Hot keys automatically include CTRL+ALT. Press any valid key (you cannot use ESC, ENTER, TAB, SPACEBAR, PRINT SCREEN, or BACKSPACE) you want to add to this combination. For example, to define the hot key combination CTRL+ALT+B, press B.

Hot Key	×
Paning hotkey	
Name :	Hotkey
Increasing brightne Decreasing brightne Increasing contrast Decreasing contrast Increasing gamma of Decreasing gamma of Increasing brightne	Ctrl + Alt + A Description : Select a hotkey to increase brightness of the D3D/Game.
Load default	Cancel OK

NOTE: The hot keys will be available only if you selected the **Enable Hotkey** check box and if you are in the appropriate environment. That is, with the **Enable Hotkey** check box selected, hot keys take effect only if you are playing a **full-screen** DirectDraw/Direct3D game or video hot keys are valid only when you are playing a movie with hardware acceleration (**YUV** overlay) turned on.

Important Notes

D3D/Game

The color settings of **D3D/Game** take effect only when you are playing a <u>full-screen</u> DirectDraw/Direct3D game.

💷 Display

Display lets you make monitor adjustments, such as position, size, and refresh rate.

WARNING! Adjusting position or size, especially refresh rate is a highly dangerous operation. Selecting a value that is beyond your monitor's specification may damage it. **Press ESC to restore your original settings in case of problems.**

VGA

Adjustment

Position sets the screen position Size sets the screen size

Synchronization

Adjusts the synchronization polarity settings



Change current refresh rate

Displays the **Change current refresh rate** box to let you customize a new refresh rate.

To change the current refresh rate

- 1. Click Change current refresh rate.
- 2. In the **Refresh rate** list under **Change current refresh rate**, click the nearest default refresh rate and then adjust the **Edit refresh rate** slider to the rate you want, click **Test** and then click **YES** when prompted to add the new refresh rate into the list. Otherwise, the original refresh rate will be restored.



YES

NO

dows 95/98

Load default Restores the settings to their defaults.

Change refresh rate

Displays the **Change refresh rate** box to let you change the refresh rate of any screen resolution.

GDI

GDI lets you change the refresh rate of the Windows desktop.

To change the refresh rate

- 1. Click Change refresh rate.
- 2. In the **Refresh Rate** list under the **GDI** tab, select the refresh rate you want to use. A **Test** button appears to let you test the selected refresh rate and resolution combination. Click **YES** when prompted whether to keep the new refresh rate. Otherwise, the original refresh rate will be restored.

DirectDraw

DirectDraw lets you change the refresh rate of DirectDraw. It is most useful when you are playing a <u>full-screen</u> game.

To change the refresh rate

- 1. Click Change refresh rate.
- 2. In the **Refresh Rate** list under the **DirectDraw** tab, select the refresh rate you want to use. A **Test** button appears to let you test the selected refresh rate and resolution combination. Click **Test** to preview the new refresh rate.
- 3. To keep the new refresh rate, press **F1**. Otherwise, press **F2** to select another refresh rate.

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ΤV

Position

Sets the screen position.

Size

Sets the screen size.

Standard

Sets the TV signal format, for example, PAL or NTSC.

Output type

Displays the connection status of composite and S-Video.

Scan type Sets the scan type of the TV display.

Black Level Sets the brightness of the TV display.

Contrast Sets the contrast of the TV display.

Flicker Sets the anti-flicker effect.

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Advanced

Advanced provides some advanced settings for the ASUS VR-100G 3D Glasses (setting is available only with the ASUS Ultra Series models or models with the ASUS VR-100 Optional Upgrade Kit) and Direct3D and OpenGL, which are software interfaces for your ASUS V3800 Series Graphics and Video Accelerator.

3D/VR

Stereoscopic Glasses

Enable Stereoscopic Mode

When selected, this enables you to use the stereoscopic mode when playing games or watching 3D videos. This mode is available only with the ASUS Ultra Series models or models with the ASUS VR-100 Optional Upgrade Kit.

Eyes

Distance between your eyes.

Distance

Distance between foreground objects and eyes.

Embossment

The effect to make objects virtually pop out of the screen.

Background

Distance of background from the foreground.

Foreground

Distance of foreground from the background.

Blind

Lets you discard or crop the unwanted areas of your display.

Load Default

Restores the settings to their defaults.



640 x 480 x 16 bits	640 x 480 x 32 bits
800 x 600 x 16 bits	800 x 600 x 32 bits
960 x 720 x 16 bits	
1024 x 768 x 16 bits	
1152 x 864 x 16 bits	

WARNING! To prevent discomfort and eye fatigue when using your stereoscopic or 3D glasses, DO NOT try to use your 3D glasses for an extended period of time. Take frequent short breaks to give your muscles and eyes a chance to rest by taking off your 3D glasses and then looking up and focusing on distant objects.



On Screen Display

Enable OSD

When selected, this lets you to adjust onscreen the settings of your 3D glasses and display card when playing games or watching 3D videos. These settings include Eyes, Distance, Embossment, Background, Foreground, Blind, Brightness, Contrast, and Gamma. See III. Windows 95/98 | Advanced for a description of the 3D glasses settings and III. Windows 95/98 | Color for a description of the display settings.

Use the UP or DOWN arrow keys on your keyboard to select a setting that you want to change or adjust and the PLUS or MINUS keys to move or drag the slider.

To restore the settings to their defaults, press the HOME key.

To close the onscreen display, press the END key.

✓ Enable Stereoscopic Ma Eyes 10 Distance 100 Embossment 50 Background 100 Foreground 0 Blind 50	ode	
Contrast 0 Gamma 1.0 ASUS Select: ↑↓ OSD Default: Home	Adjust: + - Exit: End	

Hotkey

This lets you assign hot keys to enable onscreen display or OSD. To use this function, select **Enable OSD**. You may want to change the default hot key (CTRL + ALT + O) when it conflicts with hot keys of certain games, video players, or Windows programs.

To change the default hot keys

 With your mouse cursor in the Hotkey box, press the hot key combination of your choice (you can only define CTRL+ALT key combinations). Hot keys automatically include CTRL+ALT. Press any valid key (you cannot use ESC, ENTER, TAB, SPACEBAR, PRINT SCREEN, or BACKSPACE) you want to add to this combination. For example, to define the hot key combination CTRL+ALT+D, press D.

NOTE: The hot keys will be available only if you selected the **Enable OSD** check box and if you have either an ASUS Ultra Series model or a model with the ASUS VR-100 Optional Upgrade Kit installed.

Direct3D

Direct3D Feature Settings

Turn off V-SYNC waiting

When selected, games will achieve higher frame rate but tear frame may occur.

Anti-alias supersampling size

Lets you select the size of anti-aliasing, supersampling block.

8-bit indexed palette texture convert

Format for 8-bit indexed texture to convert.

Direct3D Mipmap Settings

Permit dithering mipmap

When selected, rendering performance may be higher; visual quality may, however, be lower.

Auto-generate mipmap

When selected, rendering performance may be higher; visual quality may, however, be lower.

Auto-generate mipmap filtering

Select Tri-linear for higher rendering quality.

Load default

Restores the settings to their defaults.

OpenGL

Enable buffer region extension

Enables region extension for 3D Studio Max.

Permit dithering mipmap

When selected, texture mipmap dithering will be enabled. Visual quality may improve when selected; a decrease in rendering performance, however, may occur.

Anisotropic mipmap

When selected, quality/performance may be better.

Turn off OpenGL VSync waiting

When selected, games will achieve higher frame rate but tear frame may occur.

Load default

Restores the settings to their defaults.

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Direst3D Feature Settings		
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Direct3D Mipmap Settings		
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tin de	atruit Peneti DK Cancel Ard

VrViewer (optional)

VrViewer lets you view stereo images, size your stereo image, set the VR effect of your 3D glasses (ASUS VR-100G), and test your 3D glasses' functionality.



To run VrViewer, click or right-click the ASUS Control Panel icon (*see* **III. Windows 95/98 ASUS Control Panel**) on the taskbar's status area to display the ASUS Control Panel, point to **VrViewer**, and then click it.

Opening or Displaying a Stereoscopic or 3D File

1. Click the **VR Effect** menu and then click **VR On** to enable stereoscopic display.



2. Click the **File** menu and then click **Open** to select a file. Select the file from the **Open** dialog box or select another folder and then click **Open**. The 3D image appears on the VrViewer main window (*see* preceding page for an opened 3D image file. Note that the 3D effect is not shown in this picture).

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<u>F</u> ile	Zoom	<u>V</u> R Ef	fect	Test	3d glasses
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<u>[</u>	Close				
E	revious	Image	PgU	P	
<u>1</u>	lext Ima	ge	PgD	n	
E	i <u>x</u> it		Ctrl+	×	

Changing the View

1. Click the **Zoom** menu and then click the desired zoom percentage.

WrViewer 🛛						
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	1/4	κ×				
	1/2					
	🖌 1×					
	2X					
	Ful	lScreen				

Testing the 3D Glasses

1. Click the **Test 3D glasses** and then follow the onscreen instructions.



rViev

Install Display Driver

WARNING! Before installing the display driver in Windows NT 4.0, make sure that you have installed **Windows NT 4.0 Service Pack3 or later, to take full advan-tage of the ASUS AGP-V3800 AGP features.** (You must use the same update language of your Windows language available on the Internet at http://www.microsoft.com/isapi/support/bldqpage.idc? ProductPage=q_servpk.)

NOTE: The following steps assume your CD-ROM drive letter is D.

Installation Procedures

- 1. Start Windows NT, switch display properties to VGA mode (16 colors, 640 x 480 pixels), then restart your computer to make the change.
- 2. After your computer restarts, right-click the desktop and click **Properties**.
- 3. Click the **Settings** tab.
- 4. Select Change Display Type.
- 5. Select Adapter Type and click Change.
- 6. Click Have Disk.
- 7. Insert the CD installation disc.
- 8. Type **D:\NT40** or click **Browse** to select the path of the display driver for Windows NT. Click **OK.**
- 9. Select ASUS V3800 and then click OK.
- 10. Windows NT will once again prompt for confirmation. 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**. Click **Apply**.
- 11. The System Settings Change dialog box is displayed. Click Yes to restart Windows.
- 12. Windows NT will restart with the default settings. The Display applet will appear to allow for mode selection.

V. Resolution Table

8MB Video Memory

Resolution	Vertical	Horizontal	Color Depth		
	Frequency	Frequency	8bpp = 256 colors Standard	16bpp = 65K colors High Color	32bpp = 16.7M colors True Color
640 x 480	60Hz	31.4KHz		$\sqrt{1}$	
	70HZ 72Hz	36.1KHz	V	V	V
	75HZ 85Hz	43.0KHZ	N,	V,	V,
	100Hz 120Hz	51.0KHz 61.8KHz	N V	N V	N V
	140Hz 144Hz	72.9KHz 75.2KHz	N N	N V	N V
	150Hz 170Hz	78.7KHz 92.6KHz	Ň	N N	N N
	200Hz	108.6KHz	Ň	Ň	V
	240HZ 250Hz	132.8KHz 138.6KHz	V	V	V
800 x 600	60Hz 70Hz	37.9KHz 43.8KHz	N V	N V	N V
	72Hz 75Hz	45.1KHz 47.0KHz	N N	N V	N V
	85Hz 100Hz	53.6KHz 63.7KHz	N N	N N	N N
	120Hz	77.2KHz	Ń	Ň	V
	140112 144Hz	94.0KHz	Ň	V	Ň
	150Hz 170Hz	98.2KHz 112.8KHz	N,	N,	N V
	200Hz 240Hz	135.0KHz 166.3KHz	N N	N N	N V
1024 x 768	250Hz 60Hz	172.5KHz 48.4KHz	N N	√ √	V V
1021 1 700	70Hz 72Hz	56.0KHz	Ń	Ń	Ň
	72112 75Hz	60.2KHz	Ň	N N	Ň
	85HZ 100Hz	81.7KHz	N,	V,	V,
	120Hz 140Hz	98.8KHz 116.6KHz	N V	N V	N V
	144Hz 150Hz	120.0KHz 125.8KHz	N.	N V	N V
1152 x 864	170Hz	144.0KHz 53.7KHz	N N	√ √	$\sqrt{1}$
1152 X 004	70Hz	62.9KHz	Ň	Ň	V
	72HZ 75Hz	67.6KHz	N,	V,	V,
	85Hz 100Hz	91.3KHz	N V	N V	N V
	120Hz 140Hz	111.2KHz 131.4KHz	N N	N N	N V
	144Hz 150Hz	135.2KHz 141.3KHz	N N	N N	$\sqrt[n]{\sqrt{1}}$
1280 x 1024	60Hz 70Hz	64.0KHz	N	N N	Ń
	7011Z 72Hz	76.8KHz	Ň	V,	Ň
	75HZ 85Hz	91.3KHz	N N	N V	N N
	100Hz 120Hz	108.5KHz 131.6KHz	N V	N N	$\sqrt[n]{\sqrt{1}}$
1600 x 1200	60Hz 70Hz	74.6KHz 87.4KHz	$\sqrt{\frac{1}{\sqrt{2}}}$	$\sqrt{\frac{1}{\sqrt{1-\frac{1}{2}}}}$	$\sqrt{1}$
	72Hz 75Hz	90.1KHz 84.0KHz	Ń	N N	N N
1000 1000	85Hz	107.1KHz	Ň	Ň	, √
1920 x 1080	60Hz 70Hz	67.1KHz 78.7KHz	N V	N V	
	72Hz 75Hz	81.1KHz 84.6KHz	N N.	N N.	_
1920 v 1200	85Hz	96.4KHz	N N	√ √	
1720 X 1200	70Hz	87.4KHz	V	Ň	
	72Hz 75Hz	90.0KHz 94.0KHz	N V	N V	

V. Resolution 8MB Memory

ASUS V3800 Series User's Manual

V. Resolution Table

16MB Video Memory

			Color Depth		
Resolution	Vertical Frequency	Horizontal Frequency	8bpp = 256 colors Standard	16bpp = 65K colors High Color	32bpp = 16.7M colors True Color
640 x 480	60Hz 70Hz 72Hz 75Hz	31.4KHz 34.9KHz 36.1KHz 37.6KHz			
	85HZ 100Hz 120Hz 140Hz 144Hz	43.0KHz 51.0KHz 61.8KHz 72.9KHz 75.2KHz			
	150Hz 170Hz 200Hz 240Hz 250Hz	78.7KHz 92.6KHz 108.6KHz 132.8KHz 138.6KHz	イズイ		
800 x 600	60Hz 70Hz 72Hz 75Hz 85Hz	37.9KHz 43.8KHz 45.1KHz 47.0KHz 52.6KHz			
	83Hz 100Hz 120Hz 140Hz 144Hz	63.7KHz 63.7KHz 77.2KHz 91.1KHz 94.0KHz			
	150Hz 170Hz 200Hz 240Hz 250Hz	98.2KHz 112.8KHz 135.0KHz 166.3KHz 172.5KHz	インシン	マンシン	
1024 x 768	60Hz 70Hz 72Hz 75Hz 85Hz	48.4KHz 56.0KHz 57.5KHz 60.2KHz 68.6KHz	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		
	100Hz 120Hz 140Hz 144Hz	81.7KHz 98.8KHz 116.6KHz 120.0KHz			
1152 x 864	150Hz 170Hz 60Hz	125.8KHz 144.0KHz 53.7KHz		N N	N N N
1132 x 004	70Hz 72Hz 75Hz 85Hz 100Hz 120Hz 140Hz	62.9KHz 64.8KHz 67.6KHz 77.1KHz 91.3KHz 111.2KHz 131.4KHz 135.2KHz		******	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
1280 x 1024	150Hz 60Hz	141.3KHz 64.0KHz	V V	V V	V V
	70Hz 72Hz 75Hz 85Hz 100Hz 120Hz	74.6KHz 76.8KHz 80.1KHz 91.3KHz 108.5KHz 131.6KHz	イブマイ	オオオオ	
1600 x 1200	60Hz 70Hz 72Hz 75Hz 85Hz	74.6KHz 87.4KHz 90.1KHz 84.0KHz 107.1KHz	イイ	イイ	
1920 x 1080	60Hz 70Hz 72Hz 75Hz 85Hz	67.1KHz 78.7KHz 81.1KHz 84.6KHz 96.4KHz			
1920 x 1200	60Hz 70Hz 72Hz 75Hz	74.6KHz 87.4KHz 90.0KHz 94.0KHz		マイン	

V. Resolution Table

32MB Video Memory

			Color Depth		
Resolution	Vertical Frequency	Horizontal Frequency	8bpp = 256 colors Standard	16bpp = 65K colors High Color	32bpp = 16.7M colors True Color
640 x 480	60Hz	31.4KHz		V	
	70Hz 72Hz	34.9KHz 36.1KHz	N V	N V	N V
	75Hz	37.6KHz		N	V
	100Hz	43.0KHZ 51.0KHZ	N,	V,	Ň,
	120Hz 140Hz	61.8KHz 72.9KHz	$\sqrt[n]{}$	N N	N N
	14011Z 144Hz	75.2KHz	V,	V,	V,
	150Hz 170Hz	78.7KHz 92.6KHz	$\sqrt[n]{\sqrt{1}}$	N N	Ň
	200Hz	108.6KHz	Ń	Ń	Ň
	240HZ 250Hz	132.8KHz 138.6KHz	$\sqrt[n]{}$	Ň	V
800 x 600	60Hz 70Hz	37.9KHz	$\sqrt{\frac{1}{2}}$	$\sqrt{\frac{1}{2}}$	N N
	72Hz	45.1KHz	V,	V	V,
	75Hz 85Hz	47.0KHz 53.6KHz	$\sqrt[n]{\sqrt{1}}$	N V	N N
	100Hz	63.7KHz	Ń	Ý	Ň
	120Hz 140Hz	91.1KHz	N N	N N	N N
	144Hz 150Hz	94.0KHz	$\sqrt{1}$	N N	N
	170Hz	112.8KHz	V,	V,	V,
	200Hz 240Hz	135.0KHz 166.3KHz	$\sqrt[n]{\sqrt{1}}$	N V	N N
1001 5 60	250Hz	172.5KHz	Ń	Ŵ	Ŵ
1024 x 768	60Hz 70Hz	48.4KHz 56.0KHz	N N	N N	Ň
	72Hz	57.5KHz	Ń	Ń	Ń
	75HZ 85Hz	60.2KHZ 68.6KHz	N N	N N	N N
	100Hz 120Hz	81.7KHz 98.8KHz	$\sqrt{1}$	N N	N
	140Hz	116.6KHz	N,	V,	V,
	144Hz 150Hz	120.0KHz 125.8KHz	$\sqrt[n]{\sqrt{1}}$	N V	N V
1150 064	170Hz	144.0KHz	V	V	V
1152 X 864	70Hz	53.7KHz 62.9KHz	N N	N N	N N
	72Hz 75Hz	64.8KHz 67.6KHz	$\sqrt{1}$	N N	N
	85Hz	77.1KHz	V,	V,	V,
	100Hz 120Hz	91.3KHz 111.2KHz	N N	N N	Ň
	140Hz	131.4KHz	Ń	Ń	Ň
	144HZ 150Hz	141.3KHz	$\sqrt[n]{}$	V	V
1280 x 1024	60Hz 70Hz	64.0KHz	$\sqrt{\frac{1}{\sqrt{2}}}$	$\sqrt{1}$	N
	72Hz	76.8KHz	Ň,	V,	V,
	75Hz 85Hz	80.1KHz 91.3KHz	N N	N N	Ň
	100Hz	108.5KHz	Ń	Ń	Ń
1600 x 1200	60Hz	74.6KHz	N N	N.	V.
	70Hz	87.4KHz	Ń	Ń	Ń
	75Hz	84.0KHz	$\sqrt[n]{1}$	V,	N,
1020 x 1090	85Hz	107.1KHz	۷ N	√ √	N N
1720 X 1080	70Hz	78.7KHz	$\sqrt[n]{1}$	V,	N,
	72Hz 75Hz	81.1KHz 84.6KHz	$\sqrt[n]{\sqrt{1}}$	$\sqrt[n]{\sqrt{1}}$	N V
	85Hz	96.4KHz	Ń	Ŵ	Ń
1920 x 1200	60Hz 70Hz	74.6KHz 87.4KHz	$\sqrt[n]{\sqrt{1}}$	$\sqrt[n]{\sqrt{1}}$	N V
	72Hz	90.0KHz	Ň	Ň	Ň
2048 x 1536	/SHZ	V3800 Deluve	$\frac{V}{V}$	N N	Ň

V. Resolution 32MB Memory

VI. Troubleshooting

Description

After installation and restarting, Windows 95/98 informs me that the display setting is still incorrect.

My monitor is not capable of high resolution or refresh rate.

DirectX or the other applications report no AGP memory available.

LIVE3800 reports that my board is not a TV model.

Games or applications report "No 3D acceleration hardware found."

I cannot enable AGP memory or run I-Base test.

My MPEG player displays bad quality video clips.

Why can't I see anything when I adjust the display mode to 512x384 resolution? I've enabled OSD and VR stereoscope.

Recommended Action

- Make sure the "Assign IRQ to VGA" option is enabled in the BIOS.
- Check if there is enough IRQ for VGA.
- Uninstall the driver, restart, and reinstall the driver.
- It depends on the display characteristics of your monitor. Consult your monitor documentation for the proper configuration.
- Windows 95 is not OSR2.1 or later.
- DirectX version is not 6.0 or later.
- You have not installed appropriate drivers for the AGP chipset. (e.g. VGARTD.VXD for Intel 440LX).
- Incorrect BIOS setting. BIOS must support at least 64MB for AGP aperture size.
- Your adapter has no video-in options.
- 3D works only in 16- or 32-bit color depth. Switch your color depth display mode to 16-bit (high color) or 32-bit (true color).
- Check necessary libraries, such as DirectX or OpenGL.
- Try to switch to a lower resolution.
- You may be using a motherboard with an Aladdin IV AGPset. To get the best compatibility, the display card uses AGP Bus Master mode instead of AGP execute mode for motherboards using this AGPset.
- You must install DirectX 6 or later so that your player can take advantage of the hardware acceleration mode (DirectDraw).
- Try to switch to a lower resolution, color depth, or refresh rate. Switching to a lower mode allows your player to use hardware acceleration mode.
- Switch dual view mode to VGA or TV mode.
- The VR stereoscope only supports 640x480, 800x600, 960x720, 1024x768, 1152x864 (16 bits); and 640x480, 800x600 (32 bits) modes.

Description

My system freezes when I press my keyboard when I am playing Turok II.

Recommended Action

• This occurs only when OSD is enabled in V1.91 or earlier drivers. If OSD is disabled, your system should not freeze. Upgrade your drivers to the latest version. Another workaround is to press the keyboard first before making any selection when the options menu of the game appears.