ASUS

AGP-V1326
AGP-V1326C

2D/3D DVD Accelerator

USER'S MANUAL

Hardware & Video Drivers

USER'S NOTICE

No part of this manual, including the products and software described in it, may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language in any form or by any means, except documentation kept by the purchaser for backup purposes, without the express written permission of ASUSTeK COMPUTER INC. ("ASUS").

ASUS PROVIDES THIS MANUAL "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL ASUS, ITS DIRECTORS, OFFICERS, EMPLOYEES OR AGENTS BE LIABLE FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES (INCLUDING DAMAGES FOR LOSS OF PROFITS, LOSS OF BUSINESS, LOSS OF USE OR DATA, INTERRUPTION OF BUSINESS AND THE LIKE), EVEN IF ASUS HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES ARISING FROM ANY DEFECT OR ERROR IN THIS MANUAL OR PRODUCT.

Product warranty or service will not be extended if: (1) the product is repaired, modified or altered, unless such repair, modification of alteration is authorized in writing by ASUS; or (2) the serial number of the product is defaced or missing.

Products and corporate names appearing in this manual may or may not be registered trademarks or copyrights of their respective companies, and are used only for identification or explanation and to the owners' benefit, without intent to infringe.

• Intel, LANDesk, and Pentium are registered trademarks of Intel Corporation.
• IBM and OS/2 are registered trademarks of International Business Machines.
• Windows and MS-DOS are registered trademarks of Microsoft Corporation.
• Adobe and Acrobat are registered trademarks of Adobe Systems Incorporated.

The product name and revision number are both printed on the product itself. Manual revisions are released for each product design represented by the digit before and after the period of the manual revision number. Manual updates are represented by the third digit in the manual revision number.

For previous or updated manuals, BIOS, drivers, or product release information, contact ASUS at http://www.asus.com.tw or through any of the means indicated on the following page.

SPECIFICATIONS AND INFORMATION CONTAINED IN THIS MANUAL ARE FURNISHED FOR INFORMATIONAL USE ONLY, AND ARE SUBJECT TO CHANGE AT ANY TIME WITHOUT NOTICE, AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY ASUS. ASUS ASSUMES NO RESPONSIBILITY OR LIABILITY FOR ANY ERRORS OR INACCURACIES THAT MAY APPEAR IN THIS MANUAL, INCLUDING THE PRODUCTS AND SOFTWARE DESCRIBED IN IT.

Product Name:	**ASUS AGP-V1326**
Manual Revision:	**1.04 E318**
Release Date:	**December 1998**

ASUS CONTACT INFORMATION

ASUSTeK COMPUTER INC.
Marketing
Address:	150 Li-Te Road, Peitou, Taipei, Taiwan 112
Telephone:	+886-2-2894-3447
Fax:	+886-2-2894-3449
Email:	info@asus.com.tw

Technical Support
Fax:	+886-2-2895-9254
Email:	tsd@asus.com.tw
Newsgroup:	news2.asus.com.tw
WWW:	www.asus.com.tw
FTP:	ftp.asus.com.tw/pub/ASUS

ASUS COMPUTER INTERNATIONAL
Marketing
Address:	6737 Mowry Ave, Mowry Business Center, Building 2, Newark, CA 94560, USA
Fax:	+1-510-608-4555
Email:	info-usa@asus.com.tw

Technical Support
Fax:	+1-510-608-4555
BBS:	+1-510-739-3774
Email:	tsd-usa@asus.com.tw
WWW:	www.asus.com
FTP:	ftp.asus.com.tw/pub/ASUS

ASUS COMPUTER GmbH
Marketing
Address:	Harkort Str. 25, 40880 Ratingen, BRD, Germany
Telephone:	49-2102-445011
Fax:	49-2102-442066
Email:	info-ger@asus.com.tw

Technical Support
Hotline:	49-2102-499712
BBS:	49-2102-448690
Email:	tsd-ger@asus.com.tw
WWW:	www.asuscom.de
FTP:	ftp.asuscom.de/pub/ASUSCOM

CONTENTS

CONTENTS

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.

I. Introduction

Thank you for purchasing the ASUS AGP-V1326 2D/3D DVD Accelerator. With the SiS 6326 built in, the ASUS AGP-V1326 provides you with fast acceleration in both 2D/3D graphics, NTSC/PAL TV-OUT, MPEG-2/1 video decoder, and high quality scalable video playback, which can fully support 3D Gaming and Multimedia Applications.

Item Checklist

☑ ASUS AGP-V1326

☑ This User's Manual

☑ ASUS Driver & Utility CD

Key Benefits

- Supports professional graphics design, gaming, learning, and business applications
- Flicker free, high refresh rates reduce eye strain
- Powerful 3D rendering
- Crisp, realistic images
- Striking cinema-quality video

Features

- Built-in SiS 6326 64-bit 3D Multimedia Accelerator
- User-friendly installation for Windows95 and Windows 3.x.
- Acceleration for Windows 95 APIs, including Direct3D and DirectDraw
- Supports AGP 1.0 compliant configuration setting
- Supports AGP 2x (133MHz)
- Built-in programmable 24-bit true-color RAMDAC up to 175MHz pixel clock
- Supports VESA Display Power Management Signaling (DPMS) compliant VGA monitor for power management
- Supports Plug and Play (DDC1 and DDC2B)
- 4MB 64-bit SGRAM
- Built-in high performance and high quality 3D accelerator
- High performance 2D accelerator
- Complete TV-OUT solution
- MPEG-I and MPEG-II decoder
- Software-only DVD player (option)
- Video accelerator

II. Hardware Installation

ASUS AGP-V1326 / AGP-V1326C

Feature Connector

VGA BIOS

4 MB 64-bit SGRAM

VGA Monitor Output (15 pin)

SVHS/TV Output (4 pin)

Composite/TV Output (RCA)

SiS 6326 Chipset with ASUS Heatsink
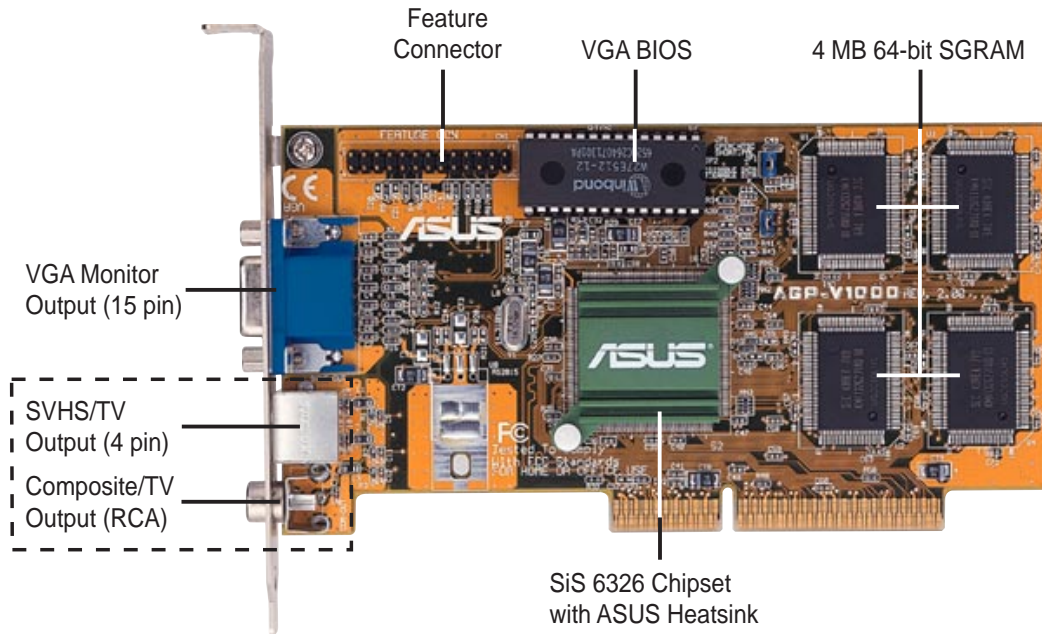
ASUS AGP-V1326 / AGP-V1326C Layout

2 26
1 Feature Connector 25

JP1
With jumper on: PAL Standard
Without jumper: NTSC Standard

JP2
With jumper on: Enable INTA
Without jumper: Disable INTA

VGA

SVHS-OUT

COM-OUT

SiS 6326 Chipset
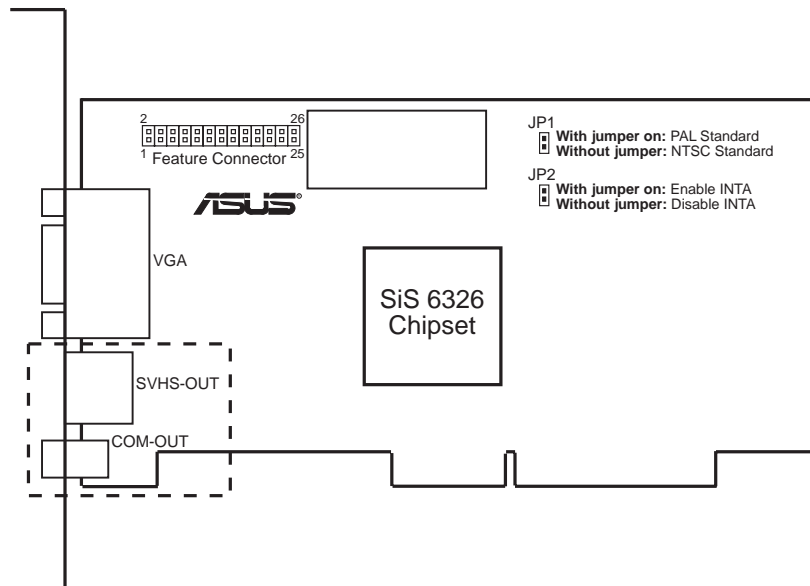
Feature Connector: Used for third party video accessories, such as video capture cards or television tuners.

JP1: Use this to select the standard to be used for the TV output. Place a jumper over JP1 to use PAL (default) or remove to use NTSC standard.

JP2: Use PCI INT A setting to properly assign the AGP-V1326's interrupt. Assign INT A by setting jumper JP2 to *Enable*, which is the default.

> **NOTE:** Components enclosed in dotted boxes can only be used or are available only in the AGP-V1326 model.

II. Hardware Installation

ASUS AGP-V1326 / AGP-V1326C Connection Examples
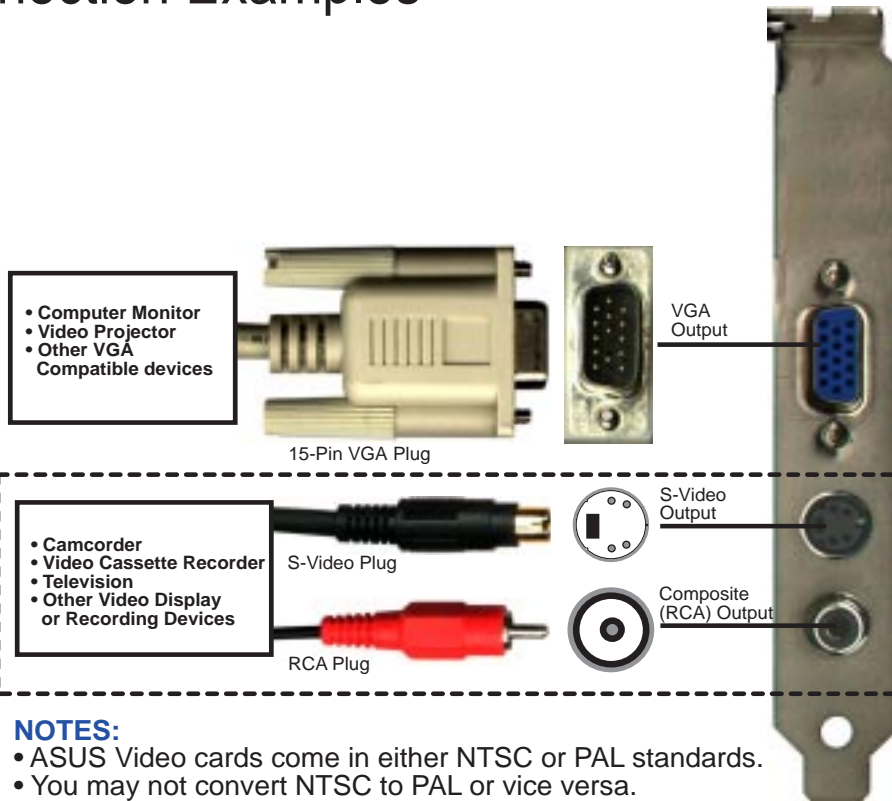
• Computer Monitor
• Video Projector
• Other VGA
  Compatible devices

VGA
Output

15-Pin VGA Plug

• Camcorder
• Video Cassette Recorder
• Television
• Other Video Display
  or Recording Devices

S-Video Plug

S-Video
Output

Composite
(RCA) Output

RCA Plug

NOTES:
• ASUS Video cards come in either NTSC or PAL standards.
• You may not convert NTSC to PAL or vice versa.
• You must use the same standard for all devices.

NOTE: Components enclosed in dotted boxes can only be used or are available only in the AGP-V1326 model.
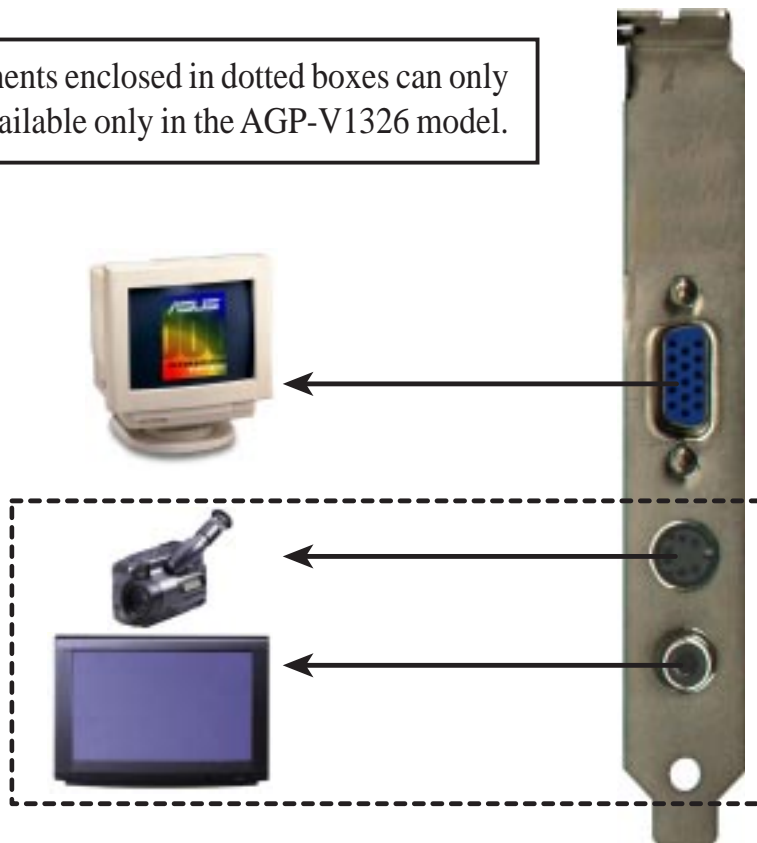
II. Hardware Installation

NOTE: The ASUS AGP-V1326 2D/3D DVD Accelerator can only be installed in motherboards with an AGP slot.

Installation Procedures
New Systems
1. Unplug all electrical cords from your computer.
2. Remove the system unit cover.
3. Locate the AGP 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 (see **WARNING!**).
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 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. Install the ASUS AGP-V1326 display drivers with your current VGA card.
2. Shut down your computer and unplug all electrical cords.
3. Replace the existing VGA card with the ASUS AGP-V1326 2D/3D DVD Accelerator.
4. Restart your computer — the ASUS AGP-V1326 should be automatically detected and the display drivers automatically updated.

II. Installation Procedures

III. Windows 95

Operating System Requirements

Windows 95 and Windows 95 OSR2.0/2.1

Both Windows 95 and Windows 95 OSR2.0 support AGP cards, but to take advantage of all the AGP features, you must use Win95 OSR 2.1 or later and install the ASUS VGARTD driver (see **III. Windows 95**, **2. Install VGARTD**).

To install Win95 OSR2.1, you must have OSR2.0 installed already. Otherwise, first install OSR2.0 and then use the USB support update to upgrade to OSR2.1. 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:

HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Version
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\VersionNumber

OSR2.1 has Version "Windows 95" and VersionNumber "4.03.1212" or "4.03.1214".

III. Windows 95

1. Installation for an Installed ASUS AGP-V1326

"New hardware found" refers to the prompt for drivers when installing Windows 95 with the ASUS AGP-V1326 2D/3D DVD Accelerator already installed. This Manual assumes that your CD-ROM disc drive is drive **D:** and that Windows 95 is in **C:\Windows**. Replace either with the actual drive name or path, if necessary.

1.1 Windows 95

When you first start Windows 95 with the ASUS AGP-V1326 newly installed, a **New Hardware Found** window will appear.

Select **Do not install a driver** and follow the steps on the next page.

1.2 Win95 OSR 2.0/2.1

When installing under Windows 95 OSR 2.0/2.1, the **Update Device Driver Wizard** window will appear.

The wizard will complete the installation of the Standard PCI Graphics Adapter (VGA). Click **Next >** to let Windows search for an updated driver.

> **WARNING!** Only click **Next >**. The system will hang if you click **Cancel**!

Click **F**inish to install the VGA driver. You will then be asked for your Windows95 CD to complete the VGA driver installation. If you do not have your CD handy, direct the installation path to your **\Windows\System** directory. Windows will prompt you to restart your computer. Choose "**No**" and follow the following steps .

III. Windows 95

2. Install VGARTD

Insert the ASUS AGP-V1326 installation CD. The **ASUS AGP-V1326 Install Shell** will appear. If it does not appear, run **D:\setup.exe**. You will be presented with a list of install options.

Click **Install VGARTD**.
A message appears that shows your Windows 95 version or build and the versions with which the AGP features of your card will work. Click **Yes** to proceed. Another message appears that the VGARTD driver is only required for AGP boards. Click **Yes** to proceed to install the VGARTD driver.

The **AGP VGARTD Driver Detection** dialog box appears displaying the chipset on your motherboard that the program detected.

Click **OK** to install the driver for your chipset.

NOTE: Installation dialogs are slightly different for each chipset. Follow the onscreen instructions to complete the VGARTD installation. The following steps are for Intel chipsets.

In you opted to select other drivers, you will be presented with a drop-down list of other drivers. In the **AGP VGARTD Driver Selection** list, click the VGARTD driver for your chipset and then click **Install**.

The VGARTD driver setup program **Welcome** dialog box appears. Click **Next** to continue.

When the setup program is finished installing the VGARTD driver for your chipset, the **Setup Complete** dialog box appears. Click **Finish** to complete the setup.

III. Windows 95

3. Install Windows 95 Display Driver

Insert the ASUS AGP-V1326 installation CD. The **ASUS AGP-V1326 Install Shell** will appear. If it does not appear, run **D:\setup.exe**. You will be presented with a list of install options. Click **Install Windows 95 Display Driver**. The setup program's **Welcome** dialog box appears.

Click **Next >** to select the setup type of your choice. To accept either Typical or Compact **Setup Type** and default Destination Directory (to change the destination, click **Browse**, then either type a path or select a folder from the list, and then click **OK** to continue), click **Next** and then follow the onscreen instructions to finish your setup.

If you opted for a Custom setup, you will be prompted to **Select Components** that you want to install. Click the components that you want to install, click **Next>** and then follow the onscreen instructions to finish your setup.

After setup has completed copying files to your computer, you must restart Windows or your computer before you can take advantage of the AGP-V1326 features.

After restarting, the display driver will initially run on 640 x 480 x 256 colors, 60 NI (non-interlaced). Three additional items may be added to your **Display Properties**, namely, Display Modes, TV Output, or Gamma Correction, depending on your mode setting.

For the ASUS AGP-V1326 display utilities, an **ASUS AGP-V1326 Vx.xx** (default program folder) program group will be created and shown onscreen. Three icons will be created in the program group:

(1) **Multimedia Manager:** Creates a shortcut bar on your desktop for single-click access to the **ASUS AGP-V1326 Vx.xx** display utilities.

(2) **Center Screen:** Allows you to adjust the position of the display on the screen.

(3) **SiS help:** Provides some information about the driver and utilities.
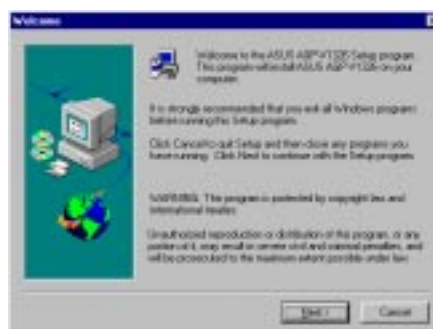
4. Display Utilities

To run the display utilities, right-click your Windows 95 desktop, then select **Properties** from the list. The Display Properties dialog box will appear with either or all of these items added, depending on your setup: Display Modes, TV Output, or Gamma Correction.

4.1 Display Modes

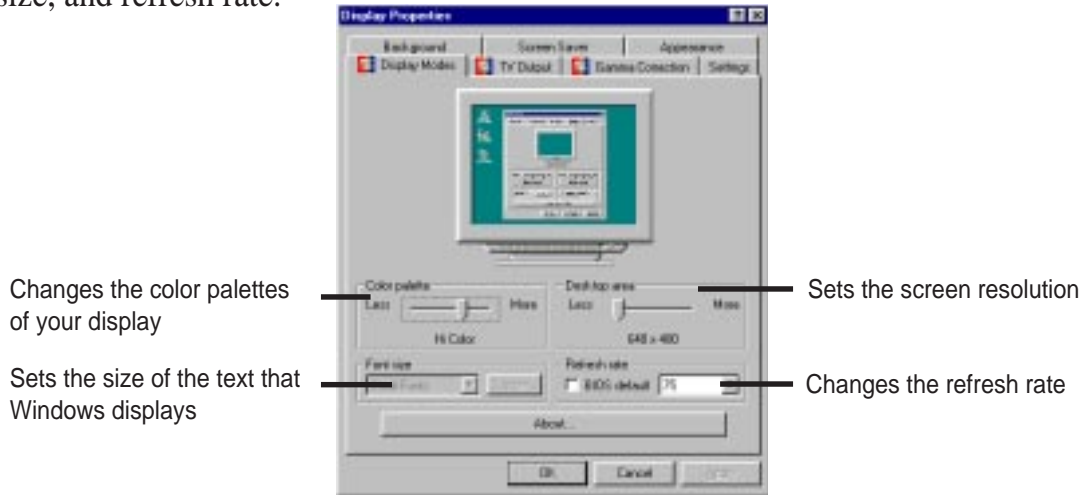The **Display Modes** tab allows you to set the color palette or depth, resolution, font size, and refresh rate.

Changes the color palettes of your display

Sets the screen resolution

Sets the size of the text that Windows displays

Changes the refresh rate

4.2 TV Output

The **TV Output** tab will be added if your AGP-V1326 came with either S-Video or Composite connector or both, you had connected your TV to one of these connectors (S-Video provides better quality) and turned it on, and you are in either of these modes: 640 x 480 x 60Hz for NTSC or 800 x 600 x 50Hz for PAL.

Only one of these list boxes will appear, depending on the TV standard that you will be using. For NTSC, select either 640x480 or 640 x 480 (UnderScan). For PAL, select either 640 x 480, 720 x 540, 800 x 600, or 800 x 600 (UnderScan).

Turns TV output on or off

Adjusts the anti-flicker effect

Turns on (softer image) or off (sharper image) Y-filter

Adjusts the position of the screen on your TV

Tunes your color TV to get color if it appears black-and-white.
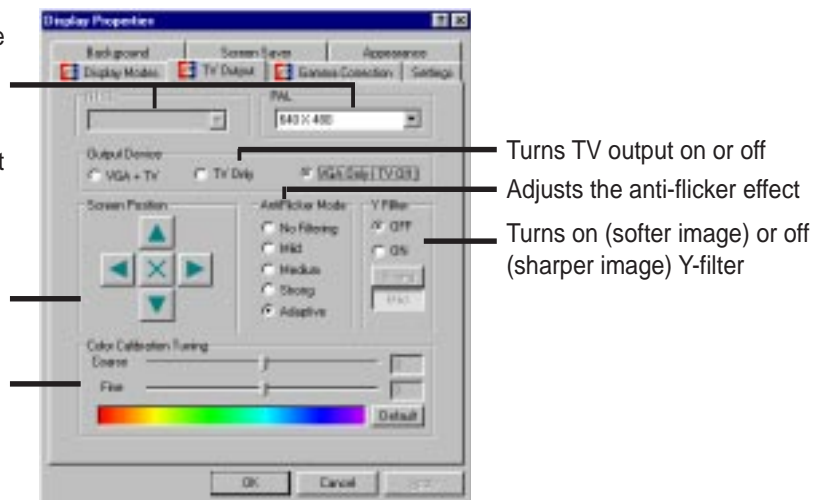
> **NOTE:** If TV output is turned on, the display frame rate would be forced to 60Hz for NTSC and 50Hz for PAL. Only when you turn off TV output and close **Display Properties** then enter **Display Properties** again will **Display Modes** be available to let you set other frame rates.

4.3 Gamma Correction

Gamma Correction is available only in 16-bit color (64K-color) and 24-bit color (true color) modes. In 16-color and 8-bit color (256-color) modes, gamma correction function is not supported. **Gamma Correction** allows you to adjust the quality of your display according to your preference.

Sets the preferred tint of your display

Sets your monitor's color mapping

Allows adjustment of individual channel

Restores settings to the original program default
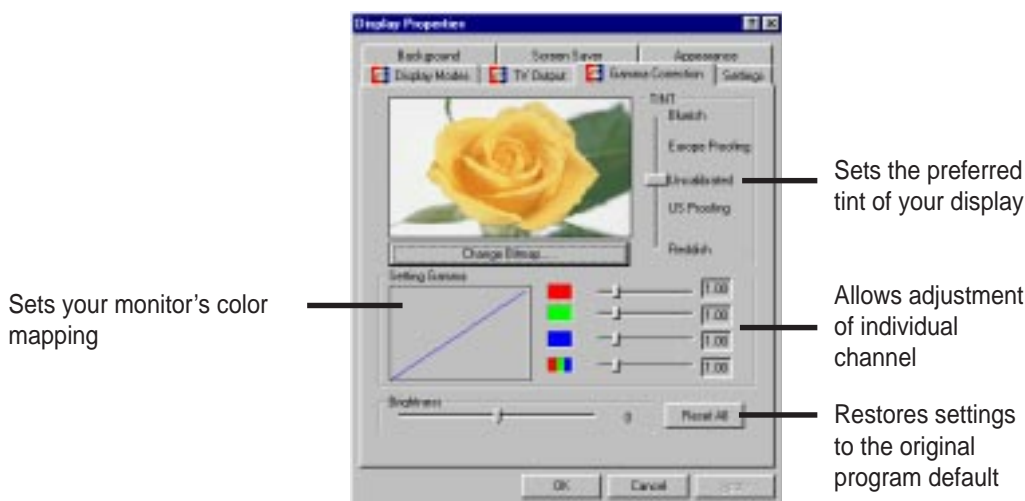
5. Video Driver Uninstallation

If you want to install other graphics cards or if you no longer need the AGP-V1326 display drivers, you can use one of the following procedures to completely uninstall the drivers from Windows 95 to save disk space.

5.1 Using the Windows 95 Control Panel

1. Click the **Start** button, and then point to **Settings**.

2. Click **Control Panel**.

3. Double-click the **Add/Remove Programs** icon.

4. Click the **Install/Uninstall** tab.

5. In the list box, click **ASUS AGP-V1326 Vx.xx** (driver version — the version number on your screen may be different from this screen).

6. Click Add/Remove.

7. Follow the onscreen instructions or prompts.

6. Install DirectX5

Microsoft DirectX5 allows 3D hardware acceleration support in Windows 95. For Software MPEG support in Windows 95, you must first install the Microsoft DirectX 5 libraries, then you may install the MPEG Video Player.

Reinsert the ASUS AGP-V1326 installation CD or double-click the CD drive icon in My Computer to bring up the autorun screen. The **ASUS AGP-V1326 Install Shell** will appear. If it does not appear, run **D:\setup.exe**. You will be presented with a list of install options.

Click **Install DirectX5**.

Click **Direct 3D Hardware Acceleration Enabled** and then click **Reinstall DirectX**.

If your system already has DirectX5 installed, the screen will show "Certified" next to each component. You may click either the **Ok** or **Cancel** button to cancel the installation.

After reinstalling DirectX5, you will be prompted to restart your machine. Click **OK**.

7. Install Video Player

PowerPlayer is a video player that allows you to view VCD (*.DAT) or MPEG (*.MPG) CD titles.

Reinsert the ASUS AGP-V1326 installation CD or double-click the CD drive icon in My Computer to bring up the autorun screen. The **ASUS AGP-V1326 Install Shell** will appear. If it does not appear, run **D:\setup.exe**. You will be presented with a list of install options.

Click **Install Video Player**.

Click **Continue** to install PowerPlayer. Follow the onscreen instructions to complete the installation.

Moving your cursor over the buttons will give the button name as shown.

Restart
Repeat
Settings
Eject
Power
Minimize
Sound Channel Switch
Decrease Volume
Mute

About

Increase Volume

Open VCD
Backward
Stop
Forward
Number Keys
Play
Full Screen
Capture to Clipboard
Next
Pause
Previous
Open File
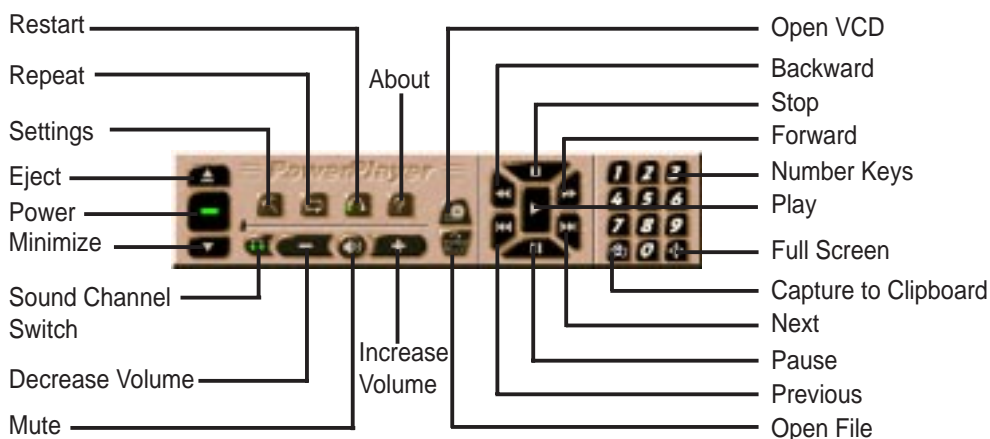
LIMITATIONS

- PowerPlayer will not function properly with full screen over 1280 x 1024 16bit high color resolution mode.
- PowerPlayer will not function properly if other windows overlap it.

III. Windows 95

8. ASUS SoftDVD (optional)

ASUS SoftDVD is a software-only DVD player that enables you, through the DVD/MPEG-II hardware acceleration of the ASUS AGP-V1326 *plus* the appropriate system, to take advantage of the much-talked about DVD technology.

DVD, short for digital versatile disc or digital video disc, is a new type of CD-ROM that holds a minimum of 4.7GB, enough for a full-length movie or hours of music. The DVD specification supports discs with capacities of from 4.7GB to 17GB and access rates of 600KBps to 1.3 MBps. With these capacities and access rates, DVD discs or DVD-ROMs can provide you with a dramatically-enhanced high-color, full-motion video, better graphics, sharper pictures, and 5.1 channels of Dolby® Digital Surround AC-3 audio for a theater-like experience.

The minimum system requirements for the ASUS Software-only DVD, aside from your ASUS AGP-V1326 2D/3D DVD Accelerator, are:

- Microsoft® Windows® 95
- 200MHz computer with MMX™ Technology
- 32MB RAM
- DVD-ROM drive that supports the DVD-ROM and/or DVD-Video disc formats
- Sound Blaster® 16 or above, or compatible sound boards (preferably PCI audio cards)
- Speakers or headphones

ASUS AGP-V1326

DVD-ROM Disc
• Movie
• Music
• Games
• Educational

DVD-ROM Drive
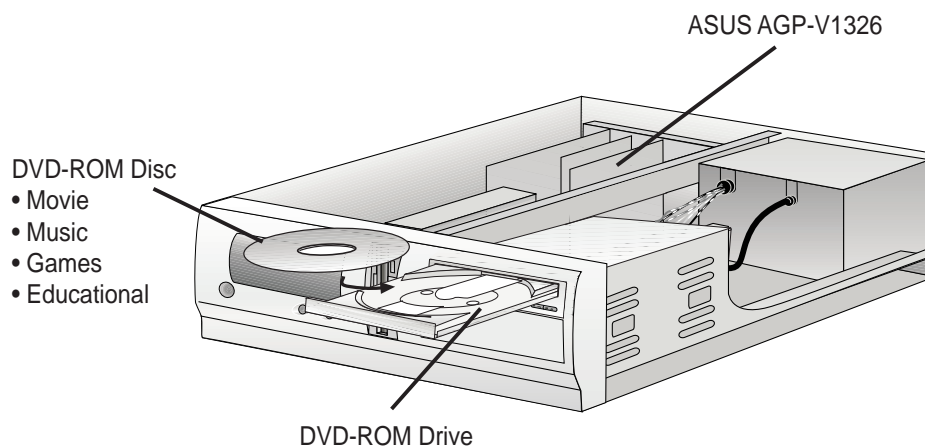
IV. Windows 3.x

1. Installation for an Installed ASUS AGP-V1326

This Manual assumes that you have already installed your ASUS AGP-V1326 VGA card and your CD-ROM disc drive is drive **D:** and that Windows 3.x is in **C:\Windows**. Replace either with the actual drive name or path, if necessary.

1.1 Installation

1. Start your computer in DOS mode.

2. Change to your Windows 3.x directory.

3. Type SETUP. The **System Informa-tion** screen will appear.

    ```
    System Information
      Computer:         MS-DOS System
      Display:          VGA
      Mouse:            Microsoft, or IBM PS/2
      Keyboard:         Enhanced 101 or 102 key US and Non US keyboards
      Keyboard Layout:  US
      Language:         US
      Codepage:         English (437)
      Network:          No Network Installed
    ```

4. Use your up arrow key to go to **Display**. Press <Enter> to to the standard VGA mode (16 colors, 640 x 480 pixels), then start Windows by typing WIN.

5. Insert the ASUS AGP-V1326 installation CD.

6. Under Windows 3.x, in **Main** of the Program Manager, double-click **File Manager**.

7. In the **File** menu, click **Run** and type **D:\setup.exe** on the command line. The **ASUS AGP-V1326 Install Shell** will appear with a list of install options.

8. Click **Install Windows 3.1 Display Driver** and follow the installation steps. Unless you are an advanced user, just use the default settings and click **Next** or **OK** to finish the installation.

9. After installation is completed, an **ASUS AGP-V1326 Vx.xx** program group will be created and shown onscreen with five icons:

(1) **Multimedia Manager:** Creates a shortcut bar on your desktop for single-click access to the **ASUS AGP-V1326 Vx.xx** display utilities.

(2) **Center Screen:** Allows you to adjust the position of the display on the screen.

(3) **SVGA Setup:** Accesses the **ASUS VGA System Configuration** utility for setting Resolution, Colors, Frame Rate, Font, Power Saver, and Zooming, among others.

(4) **Gamma Correction:** Allows you to adjust the screen color and brightness to your preference.

(5) **unInstall:** Uninstalls all the installed driver files and utilities.

2. Display Utilities

To run the display utilities, double-click the **ASUS AGP-V1326 Vx.xx** program group icon in the Program Manager, then double-click **SVGA Setup** among the program icons. The SiS VGA System Configuration dialog box will appear with several options to configure your VGA system.

Sets the screen resolution

Sets the size of the text that WIndows displays

Gives information on DDC (Display Data Channel) status, if your monitor supports it, or memory size of your VGA adapter

Changes the color palettes of your display

Opens the Power Saver dialog box, which enables or disables power management of compatible monitors. When enabled, the period of time after either **Standby** or **Suspend** monitor inactivation modes activates can be set. The Power Saver's timer settings are still in effect even when you quit Windows to use DOS.

Changes the refresh rate

Sets the screen type to either virtual or standard

Sets the size of your virtual screen. When the graphic is clicked, a dotted box appears, which you can scale by dragging a handle and move by positioning your mouse pointer inside the bounding box and dragging it

Opens the Zooming dialog box, which enables or disables zooming of your screen. When enabled, hot keys can be defined to zoom-in or zoom-out your screen, that is, change the resolution on-the-fly, without activating **SVGA Setup**. The operating principles of this feature are:

(1) Zoom-in sequence: 1024x768 → 800x600 → 640x480

(2) Zoom-out sequence: 640x480 → 800x600 → 1024x768

(3) You must first zoom in before you can zoom out, that is, you cannot zoom out to a resolution larger than what you initially set or defined.

Physical Screen Position: Sets the position of your physical screen after your virtual screen has already been started. The screen can also be positioned by dragging the monitor graphic to the desired position

> **NOTE:** Any changes that you made will only take effect when you restart Windows. Click **Restart Windows** to restart Windows using your new settings or click **Don't Restart Windows** to continue your current Windows session (your new settings will, however, not be shown — it will only take effect when you restart Windows).

3. Video Operations

3.1 DCI Function

ASUS AGP-V1326 supports the Display Control Interface (DCI) software interface standard for transferring video processing from your PC's CPU, if it is busy, to the ASUS AGP-V1326. DCI is also known as DirectDraw®. DirectDraw can provide applications, such as games, direct access to features of the ASUS AGP-V1326, such as acceleration. The DCI driver also allows for software MPEG playback and other media player programs that can take advantage of DCI.

The ASUS AGP-V1326 DCI driver is automatically loaded during the driver installation and therefore, should be transparent to the end-user.

3.2 Installation of Video for Windows

For Software MPEG support in Windows 3.x, you must first install **Microsoft Video for Windows**, then you may install your own **MPEG Video Player**.

1. Start Windows 3.x.

2. Insert the ASUS AGP-V1326 Installation CD.

3. Run **D:\setup.exe.** A list of install options will appear.

4. Click **Install Video for Windows** if you have not installed Video for Windows yet.

5. Click **Continue** to start copying files.

V. Windows NT

1. Windows NT 4.0

1.1 Installation

1. Start Windows NT 4.0.

2. On the Windows NT 4.0 desktop, dounle-click **My Computer** and then double-click **Control Panel**.

3. In **Control Panel**, double-click **Display** to open **Display Properties**.

4. Click the **Settings** tab.

5. In the refreshed **Display Properties** dialog box, click **Change Display Type**.

6. In **Adapter Type** under **Display Type**, click **Change**.

7. In **Change Display**, click **Have Disk**... and then select the path to your driver, for example, D:\WINNT\WINNT40.

8. In the newly created **Select Device** item, **SiS 6326** appears. Click **OK** to start copying files.

9. After completing the installation, NT 4.0 will go back to the **Change Display Type** screen.

10. Click **Close** or **Apply**.

11. In **System Settings Change**, select Yes to restart your computer.

12. After restarting, NT4.0 will run on 640x480x256 color, 60Hz vertical refresh rate, NI (non-interlaced).

V. Windows NT

2. Windows NT 3.5 & Windows NT 3.51

2.1 Installation

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 ASUS AGP-V1326 Installation CD.

8. Type **D:\WINNT\WINNT35** (assuming your CD-ROM disc drive is in drive D) or click **Browse** to select the path of the display driver for Windows NT. Click **OK.**

9. You will see a list of ASUS AGP-V1326 drivers. Select **ASUS AGP-V1326** 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.

VI. Autodesk

1. Autodesk ADI 4.2 — Protected Mode

1.1 General Description

1.1.1 Driver Files

1. The enclosed AGP-V1326 ADI driver contains the following file:

   RCPSIS.EXP   ASUS ADI Driver (for all resolutions and colors)

NOTE: This version of the ADI driver does not support 16-color operation.

---

2. This driver fits for a series of Autodesk Inc. products including:

   (1) AutoCAD/386 R11

   (2) AutoCAD/386 R12

   (3) AutoShade/386 V2.0

   (4) 3D Studio V3.0

3. Their installation procedures are different from one program to the others. The initial step of installation is, however, the same for all these programs, that is

   "To unpack and copy drivers to where you would like them to reside."

4. As to the actual installation procedures for each program, a detailed description is provided in the following paragraph.

1.1.2 Unpack & Copy

1. Run "INSTDRV.EXE" from the directory where it resides.

2. In **SiS Super VGA Drivers Installation** menu, select **A. ADI 4.2** to unpack and copy drivers. (To select using your keyboard, type "A".)

3. In **Unpack & Copy ADI 4.2 Drivers**, type the path where these drivers would be installed (default: C:\ADI42). The program will unpack and copy all related driver files to where you assigned them.

4. After the unpacking and copying is completed, exit the INSTDRV.EXE program.

VI. Autodesk

1.2 AutoCAD R11 Setup

1. The following procedures assume that

    (1) You have completed the *Unpack & Copy* procedure.

    (2) Your ADI 4.2 drivers are located in C:\ADI42.

2. Add the following setting to your own batch file for AutoCAD R11 (say ACADR11.BAT) or to your "AUTOEXEC.BAT" file:
    SET DSPADI=\ADI42\RCPSIS.EXP <Enter>

3. Delete the configure file, ACAD.CFG, to reside in the \ACAD directory.

4. Type **ACADR11** <Enter> to configure your AutoCAD R11 system.

5. In **Select Display Device:**, choose **ADI P386 V4.0/4.1 display**.

6. In **Select Display Resolution** screen, choose the display driver you want to use.

7. Follow the rest of the procedure, after which the system will restart with your desired display setting.

1.3 AutoCAD R12 Setup

1. The following procedures assume that

    (1) You have completed the *Unpack & Copy* procedure.

    (2) Your SiS ADI 4.2 drivers are located in C:\ADI42.

    (3) Your AutoCAD R12 program is located in C:\ACADR12.

    (4) Your AutoCAD R12 default drivers are located in C:\ACADR12\DRV.

    (5) Your AutoCAD R12 configure file, ACAD.CFG, is located in C:\ACADR12.

2. Copy the driver, RCPSIS.EXP, to C:\ACADR12\DRV, thus:
    COPY C:\ADI42\RCPSIS.EXP C:\ACADR12\DRV

3. Delete your original ACAD.CFG file, thus: **DEL C:\ACADR12\ACAD.CFG**

4. Restart AutoCAD R12.

5. AutoCAD R12 will prompt you to complete the configuration procedures because it cannot find the configuration file, ACAD.CFG.

6. Follow the onscreen instructions to proceed with the configuration.

7. In **Available Video Displays:**, choose **SiS Super VGA ADI v4.2 Display and Rendering driver**.

8. In **Select Display Resolution**, choose the display driver that you want to use.

9. Follow the rest of the onscreen instructions, and the system system will restart with the selected display setting.

VI. Autodesk

1.4 AutoShade R2.0 Setup

1. The following procedures assume that

    (1) You have completed the *Unpack & Copy* procedure.

    (2) Your ADI 4.2 drivers are located in C:\ADI42.

2. Add the following settings to your batch file for AutoShade R2.0 (for example, SHADE2.BAT) or to your AUTOEXEC.BAT file.

    (1) For display driver setting: **SET DSPADI=\ADI42\RCPSIS.EXP**

    (2) For rendering driver setting: **SET RDPADI=\ADI42\RCPSIS.EXP**

3. Delete the configuration file, SHADE.CFG.

4. Type SHADE2 <Enter> to re-configure AutoShade.

5. When prompted to **Select display device:**, choose **P386 AutoDesk Device Interface display driver**.

6. When prompted to **Select rendering display driver:**, choose **P386 AutoDesk Device Interface rendering driver**.

7. Go through the rest of the instructions, after which the system will restart with your desired display setting.

1.5 3D Studio Version 3.0 Setup

1. The following procedures assume that

    (1) You have completed the *Unpack & Copy* procedure.

    (2) Your ADI 4.2 drivers are located in C:\ADI42.

2. Create your own 3D Studio V3.0 batch file (for example, 3DS3.BAT) and add the following settings to it or your AUTOEXEC.BAT file.

    (1) **SET RCPADI=C:\ADI42\RCPSIS.EXP**

    (2) **SET RDPADI=C:\ADI42\RCPSIS.EXP**

3. Execute the new 3DS batch file or reboot the computer using the new "AUTOEXEC.BAT" as to make the new settings effective.

4. Change your current working directory to \3DS3 (where your 3D Studio V3.0 usually resides).

5. Delete original configuration file, 3DADI.CFG.

6. Type **3DS VIBCGF <Enter>** to configure your display environment.

7. After **Company Register Screen** appears, press <Enter> to continue.

8. The **Video Environment Configuration Screen** appears.

    Main-Display

    1. In **Main Display**, press <Enter>. The selection menu appears.

    2. In the selection menu, move the cursor to **RCPADI**. Press <Enter> to select.

    Material-Display

    3. In **Material-Display**, press <Enter>. The selection menu will appear.

    4. In the selection menu, move the cursor to **RCPADI**. Press <Enter> to select.

    Render-Display

    5. In **Render-Display**, press <Enter>. The selection menu will appear.

    6. In the selection menu, move the cursor to either **RCPADI** or **RDPADI**. Press <Enter> to select.

    7. Complete the other selections and exit configuration.

9. After exiting the **Video Environment Configuration Screen**, 3DS will boot automatically using the environment you just selected.

10. If your previous configuration is OK, 3DS will ask you to make a detailed configuration for the ASUS AGP-V1326 drivers. Otherwise, double-check your previous procedures or contact technical support.

11. In the detailed configuration for the ASUS AGP-V1326 drivers, just follow the onscreen instructions to make your selection. If you still have some problems, contact the technical support.

12. After the detailed configuration, you will enter the 3DS main display screen and you may begin your 3D Studio work in the environment you have just created.

13. Once completing the detailed configuration, you may enter 3D Studio the next time using the same configuration by simply typing **\3DS3\3DS** <Enter>.

14. If you want to change your video configuration, just follow the procedures mentioned before to re-configure.

VII. OS/2

1. OS/2 v2.1 & OS/2 v3.0 (Warp)

Before installing the ASUS AGP-V1326 OS/2 v2.1 & OS/2 v3.0 (Warp) drivers, make sure you do the following first:
1. Install your OS/2 system using the **VGA display** option (i.e., standard VGA).
2. Start your OS/2 system.

1.1 Installation

1. Enter *OS/2 window* or *OS/2 full screen*.

2. Change to the directory where the AGP-V1326 OS/2 2.1 or 3.0 display drivers are located and type **SISINST** and then press <Enter>.

    For example: **D:\OS2\SBCS.21>SISINST** <Enter> or

    D:\OS2\SBCS.30>SISINST <Enter>

3. All the Driver Files will be copied to a sub-directory, C:\SISDRV. The "Select Screen parameters for SiS SVGA" menu will appear and all the resolution (and color) and frame rate supported will be shown on the screen.

4. Select the desired resolution (and color) and frame rate and click **OK**.

5. The installation program will begin copying files and complete the installation process and create **SiS Setup** for future change mode usage.

6. Shutdown and reboot OS/2 to make your selections effective.

VII. OS/2

2. Double Byte OS/2 v3.0 (Warp)

Before installing the ASUS AGP-V1326 Double Byte OS/2 v3.0 (Warp) drivers, make sure you do the following first:
1. Install your OS/2 system using the **VGA display** option (i.e., standard VGA).
2. Start your OS/2 system.

2.1 Installation

The installation procedures for the Double Byte OS/2 Warp limitation is two-phased — the whole installation cannot be completed in just one phase.

- First phase: copy files, modify CONFIG.SYS, create **SiS Install** program icon, then shutdown and reboot OS/2.
- Second phase: double click **SiS Install** to complete the installation.

2.1.1 First Phase
1. Enter *OS/2 window* or *OS/2 full screen*.

2. Change to the directory where the AGP-V1326 OS/2 display drivers are located and type **SETUP** and then press <Enter>.

   For example: **D:\OS2\DBCS.30>SETUP** <Enter>

3. The setup program will begin copying the driver files to a subdirectory, C:\SISDRV, complete the installation process, and create **SiS Install**.

4. Shutdown and reboot OS/2.

2.1.2 Second Phase
5. After OS/2 reboots, double-click the **SiS Install** icon and the "Select Screen parameters for SiS SVGA" menu will appear and all the resolution (and color) and frame rate supported will be shown on the screen.

6. Select the desired resolution (and color) and frame rate and click **OK**.

7. The installation program will begin copying files and complete the installation process and create **SiS Setup** for future change mode usage.

8. Shutdown and reboot OS/2 to make your selections effective.

VIII. Display Information

Resolution Table

Resolution	Vertical Refresh Rate	Horizontal Scan Rate	Supported Color Depth		
			8bpp = 256 colors Standard	16bpp = 65K colors High Color	24bpp = True Color
640 x 480	60Hz 72Hz 75Hz 85Hz	31.4KHz 36.1KHz 37.6KHz 43.0KHz	yes yes yes yes	yes yes yes yes	yes yes yes yes
800 x 600	60Hz 72Hz 75Hz 85Hz	37.9KHz 45.1KHz 47.1KHz 53.5KHz	yes yes yes yes	yes yes yes yes	yes yes yes yes
1024 x 768	43Hz 60Hz 72Hz 75Hz 85Hz	—— 48.4KHz 57.6KHz 60.2KHz 68.7KHz	Interlaced yes yes yes yes	Interlaced yes yes yes yes	— yes — — —
1280 x 1024	43Hz 60Hz 75Hz	—— 64.0KHz 80.4KHz	Interlaced yes yes	— yes yes	— — —
1600 x 1200	60Hz	74.9KHz	yes	—	—

VIII. Display Info
Resolution Table

IX. Troubleshooting

Description	Recommended Action
After installation and restarting, Windows 95 informs me that the display setting is still incorrect.	There may be a conflict between a previous and the current display drivers. This is caused by the incomplete removal of the previous display driver. Try the following steps to remove it: 1. Right-click **My Computer** on the desktop. 2. Select **Properties**. The **System Properties** dialog box appears. 3. Click the **Device Manager** tab. Be sure that **View devices by type** is selected. 4. Double-click **Display adapters**. 5. You will find two (or more) conflicting adapters. 6. Disable all previous adapters by selecting them and clicking **Remove**. 7. Close Device Manager and restart Windows 95. 8. Your display driver should work correctly this time.
My monitor is not capable of high resolution or refresh rate.	It depends on the display characteristics of your monitor. Consult your monitor documentation for the proper configuration.
DirectX or the other applications report no AGP memory available.	There may be several possible reasons: 1. Windows 95 is not OSR2.1 or later. 2. DirectX version is not 5.0 or later. 3. You have not installed the appropriate drivers for the AGP chipset (for example, VGARTD.VXD for Intel 440LX, which the ASUS installation program automatically installs). 4. Incorrect BIOS setting. BIOS must support at least 32MB for AGP aperture size.