

# **3DVision-6326(H)**

## **User's Manual**



## 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 the manufacturer's instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in 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:

- Re-orient or relocate the receiving antenna
- Increase the separation between the equipment and the 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

**Warning!! The use of shielded cables for the connection of the monitor to the graphics card is required to assure compliance with FCC regulations. Changes or modifications to this unit nor 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.

## Version 1.4

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# Contents

<b>3DVision-6326 Package &amp; Product Information.....</b>	<b>1</b>
<b>Manual Features.....</b>	<b>1</b>
<b>Package Contents.....</b>	<b>1</b>
<b>Online Manual Format.....</b>	<b>2</b>
<b>Component Information.....</b>	<b>3</b>
<b>New Features .....</b>	<b>3</b>
<b>Resolution and Frequency .....</b>	<b>5</b>
<b>Layout for SGRAM design.....</b>	<b>6</b>
<b>Layout for EDO DRAM design.....</b>	<b>7</b>
<b>3DVison-6326H EDODRAM design.....</b>	<b>8</b>
<b>3D Engine Block Diagram.....</b>	<b>9</b>
<b>Installing the Card .....</b>	<b>10</b>
<b>Before The Basic Procedure.....</b>	<b>10</b>
<b>The Basic procedure of the installation.....</b>	<b>10</b>
<b>Using your card.....</b>	<b>12</b>
<b>Software Setup.....</b>	<b>13</b>
<b>MS Windows 95/98 Installation.....</b>	<b>13</b>
<b>Installing Under the Windows 3.1.....</b>	<b>14</b>
<b>Installing Under the Windows NT.....</b>	<b>14</b>
<b>Installing Under the OS/2.....</b>	<b>15</b>
<b>Appendix A.....</b>	<b>16</b>

# **3DVision-6326(H) Package & Product Information**

This manual contains all the information you'll need to use the 3DVision-6326(H) card. Please take a moment to familiarize yourself with the design and organization of the manual.

## **Manual Features**

This manual also uses some icons to call your attention to important information. The icons appear in the sidebar and represent the following.

- ☺ Important Information
- ☺ A recommendation or good idea
- ☹ A warning or bad idea
- 💣 Danger warning

## **Package Contents**

The 3DVision-6326(H) card package contains the following items. Please inspect the package contents and confirm that everything is there. If anything is missing or damaged, call your vendor for instructions before proceeding.

The package includes:

- ☒ One 3DVision-6326(H) AGP Card
- ☒ One CD Title for DIY Guide, Auto installation, Driver Files & Direct X5,
- ☒ User's Manual

## **Online Manual Format**

If the support disk for your AGP Card is a CD-ROM disc, a copy of the printer manual stored on the disc in Adobe Acrobat format. If so, it requires Adobe Acrobat Reader version 3.0 or later to view it. Acrobat Reader for Microsoft Windows95 may also be supplied on the Support Disk. If not, you can obtain a free copy of the Reader software from the Adobe web site which is currently at [www.adobe.com](http://www.adobe.com) as well as other locations.

If you have the online manual, you may want to install Acrobat Reader on your system hard disk. You can copy the manual over as well so that the manual is readily available without having to hunt up the Support Disk when you want to view it.

If you are unfamiliar with Acrobat Reader, please take a moment to view the Reader Online Guide which is available under the Help menu when you run Reader.

## Overview

Our middle-of-the-line 3DVision-6326 is a high performance AGP graphics card with integrated SiS6326 Chipset. It balances high quality 3D polygon and textured graphics acceleration, window acceleration and state-of-the-art MPEG1/MPEG2 playback with a fast integrated SVGA core, 175 RAMDAC and video ports. The 3DVision-6326 was designed especially for professional 3D applications and 4MB SGRAM/EDO DRAM for 64-bit Synchronous Memory Interface. *3DVision-6326H supports 8MB EDO DRAM and 203 RAMDAC.*

## SiS6326 Key Features

- Full support for Intel's Accelerated Graphics Port(AGP)
- √ Supports AGP 1.0 compliant configuration setting
- √ Supports AGP 133MHz
- Built-in a high quality 3D engine
- √ Supports solid, flat, and Gouraud shading
- √ Supports high quality dithering
- √ Supports Z-test, Alpha, and scissors clipping test
- √ True-color 3D graphics
- √ Supports per-pixel texture perspective correction
- √ Supports MIP structure texture
- √ Supports rectangle structure texture
- √ Supports 1/2/4 BPP palette
- √ Supports 1/2/4/8 BPP luminance texture
- √ Supports video texture in all supported texture formats.
- √ Supports texture transparency, blending, wrapping, mirror, and clamping

- ✓ Supports fogging, alpha blending, and primitive transparency
- ✓ Supports TV-Out function, it is based on resolution 640x480 only. It's for 3DVison-6326 Model. As to the 3DVision-6326H doesn't support this function.

### **High Performance 2D Accelerator**

- Built-in 42 double-words hardware command queue
- Supports Turbo Queue architecture to achive extra-high performance

### **Support for AGP Slot**

- 2X(133 MHz) transfer mode support
- Pipelined Extensive validation

### **4MB 100 MHz SGRAM**

- 64-bit Synchronous Memory Interface
- Two/four 256Kx32 parts for every bank of memory
- 83 MHz operation and above
- High speed block fill and masked writes
- Single cycle burst reads

### **4MB/8MB EDO DRAM(optional)**

- EDO DRAM types that SiS6326 supports are 1MBx16
  - Four 1MB x16 parts for every bank of memory
  - Normal (two cycle) EDO DRAM
- (3DVision-6326H supports 8MB EDO DRAM)

## Resolution and frequency

Mem.	Resolution	
4M	256	640x480 800x600 1024x768 1280x1024 1600x1200
	16bits	640x480 800x600 1024x768 1280x1024
	24bits	640x480 800x600
8M	256	640x480 800x600 1024x768 1280x1024 1600x1200
	16bits	640x480 800x600 1024x768 1280x1024
	24bits	640x480 800x600 1024x768 1280x1024

It presents the SiS6326 chipset supported resolution as the above table.

### Windows 95:

Resolution	Color
640x480	256
800x600	16bit
1024x768	24bit
1280x1024	256
	16bit
1600x1200	256

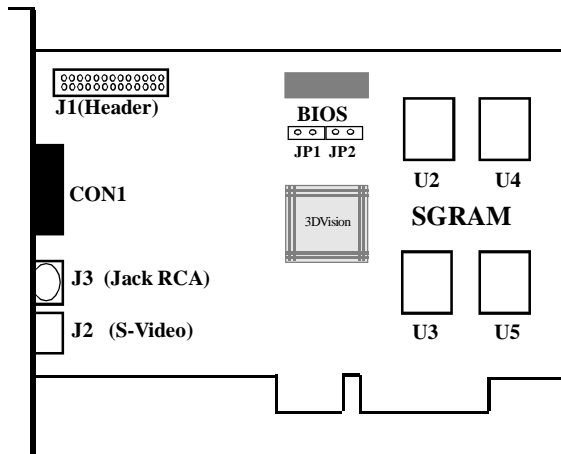
### Windows NT:

Resolution	Color
640x480	256
800x600	32K 64K 16.7M
1024x768	256 32K 64K
1280x1024	256
1600x1200	256



## 3D Vision-6326 Layout for SGRAM design

The illustration as the followings shows the connectors, chipset, 4MB SGRAM and header of the card.



Jumper	Jumper setting
JP1	Open NTSC [Default]
	Short PAL
JP2	Open Disable INTA
	Short Enable INTA [Default]

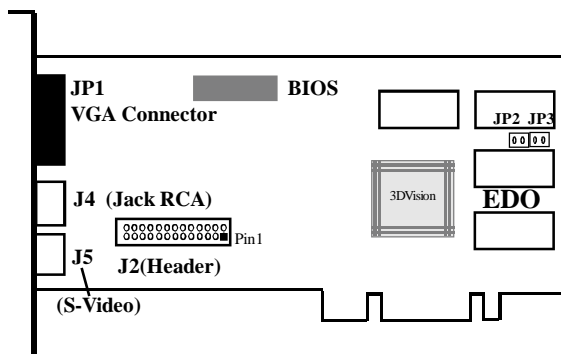
**Note:** When you get this 3D Vision-6326 card, you don't have to do any jumper setting, it is in optimized status. The above table just for your reference.

Connector: J2 & J3 for TV-out function.

The TV out function enabled when the screen is only set at resolution **640X480**

## 3DVision-6326 Layout for EDO DRAM design

The illustration shows the connectors, chipset, header and 4MB EDO DRAM.



Jumper	Jumper setting
JP2	Open NTSC [Default]
	Short PAL
JP3	Open Disable INTA
	Short Enable INTA [Default]

### [Note]

When you get this 3DVision-6326 card, you don't have to do any jumper setting, it is under optimized status. The above table just for your reference.

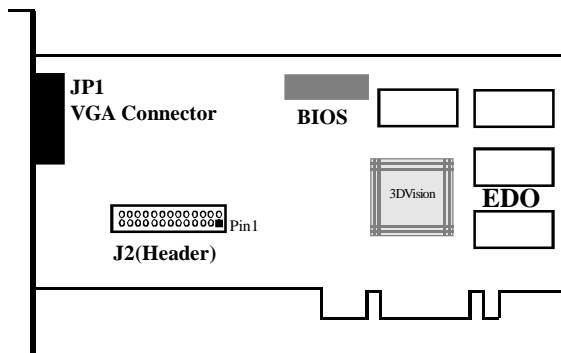
Connector: J4 & J5 for TV-out function.

The TV out function enabled when the screen is only set at resolution **640X480**

*\*INTA: It shows information that to be continued , it's usually for PCI card use not for AGP card.*

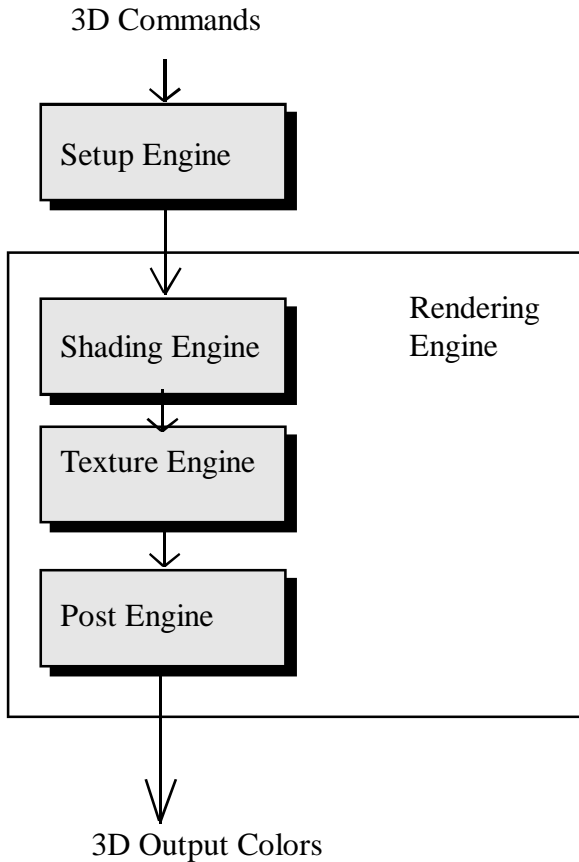
## 3DVision-6326H Layout for EDO DRAM design

The illustration shows the connectors, chipset, header and 8MB EDO DRAM.



## 3D Engine Block Diagram

The illustration as the followings shows the 3D Engine Block flow.



# Installing the Card

## Before The Basic Procedure

To install a VGA Card on the mainboard you need to notice the following items.

- ☺ Unplug after switch off power.
- ☹ Make sure your hands dry
- ☺ Do not touch other parts inside computer when using "Screw driver"
- ☺ Hold insulated part when you take the interface card
- ☺ Circuit Short is caused by user's rashness when leaving screws inside computers.

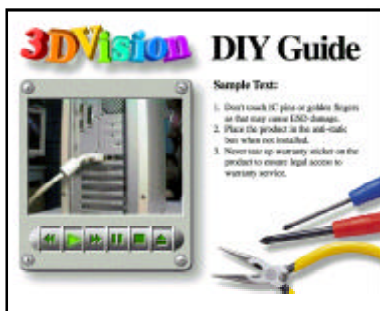
## The Basic procedure of the installation

In supported CD, we have a video that teach you how to operate the card, the steps as it follows,

1. Power off the computer and monitor. Disconnect the monitor cable form the back of your computer and remove the computer cover with screw driver.
2. If there is an existing graphincs card, unscrew it from chassis and rock it gently from end to end then pull it straight up to remove it.

3. Align your card with an empty expansion AGP slot, and grasp the card by the top edge and carefully seat it firmly into the selected expansion slot.
4. Replace the screw to fasten the card in place. Replace the computer cover.
5. Plug the monitor back into your card. Make sure your monitor cable is securely fastened then turn on the computer and monitor.

The screen for example as follows.



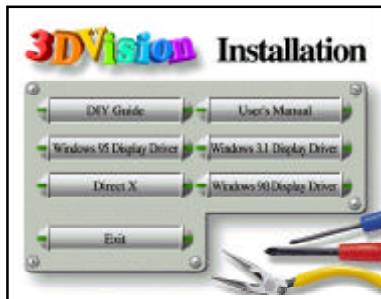
## Using your card

The Standard Computer System Requirements

1. Mainboard with AGP Slot
  2. At least 16Mbytes EDO/SDRAM
  3. Using the Windows 95, or NT
  4. DirectX 3 or above (DirectX 5 suggested)
  5. CD-ROM
  6. Speaker or Earphone (Unnecessary)
  7. Sound Card (Unnecessary)
- (Appendix is for your reference.)

## Software Setup

When you insert supported CD, it will autorun the screen, 3D Vision-6326 installation as follows, it includes DIY Guide, User's manual, Windows95, Windows98, Direct X.



Besides, we also supply Windows NT and OS/2 installation guide. You can follow the following procedure.

## **Software Setup**

Before installing the 3DVision-6326 Card onto your computer, make sure that the card is properly connected.

### **MS Windows 95 Installation**

1. Start the installation program "instal.exe" on the CD
2. Click on the button "Windows 95 Display Driver"
3. Follow the steps on the screen

### **MS Windows 98 Installation**

1. Start the installation program "instal.exe" on the CD
2. Click on the button "Windows 98 Display Driver"
3. Follow the steps on the screen



## **Installing Under the Windows 3.1**

Installing Windows 3.1, you can follow the steps and type the path in it.

1. Under Dos Mode status.
2. Enter the path c:\Win31 (if your directory is Win31) then starts Windows.
3. Open the folder "Drivers\win31" from the supported disc..
4. Run setup.exe and follow the setup procedures

## **Installing Under the Windows NT**

### **Procedure:**

1. Run the Windows NT display Setup program located in the Control Panel, Select Display Icon. Double click it. To bring up Display Property page. Select "Settings" Tab on the Display Property page.
2. Click "Display Type..." button from the Display Settings options.
3. Select "Change..." button from the Display Type options.
4. Select "Have Disk..." button from the Select Device options.
5. Windows NT will prompt you for the correct path where the driver is loaded.
6. Choose "3DVision-6326" from the list of drivers.

7. Then follow the procedures provide by Windows NT to complete installation.
8. Restart Windows NT. Windows NT will start up with default mode using the drivers.

### **Installing Under the OS/2**

OS/2 drivers Installation:

Open the drivers folder on the CD and follow the following procedure.

(a). SBCS.30 drivers and utilities: run  
`\OS2\SBCS.30\SISINST.CMD`

(b). DBCS.30 drivers and utilities: run  
`\OS2\DBCS.30\SETUP.CMD` and  
`\OS2\DBCS.30\SISINST.CMD`

## **Appendix A :**

### **[ Procedure of Installing AGP VGA card ]**

Before installing AGP VGA driver, you need to setup the Windows 95 environment with installing the following items :

- OSR2.1
- USB supplemental driver
- Direct X5 driver
- VGARTD.VXD (from your mainboard vendor)

### **How to switch the original graphics card to the new AGP card?**

1. Turn off your power switch (Under Power off status)
2. Exchange your graphics card
3. Start Win95, when the system prompts for VGA driver, you can choose "**Standard PCI Graphics card**" at first, or choose "**NEXT**".
4. DO NOT choose "**restart**" or "**Cancel**" button before you choose the "**Standard PCI Graphics card**". If you choose the cancel the system will be hang up because of the Operating System issue since Windows 95 doesn't know the AGP.
5. Check your systems if it is Win95 OSR 2.1 version, if not, please install the "usb supp.exe" first, you can find it from the Microsoft web then install and restart.  
**[Note] If your system is under Windows98, you don't have to install "usb supp.exe" first.**
6. Install DirectX 5.0 or above from the supported CD.
7. Install the new AGP card driver (Win98 or Win95)

from the supported CD.

8.Restart the system

9.The installation steps is Completed.

### **How To Install "usbsupp.exe"**

In order to install Universal Serial Bus support on a PC, Windows 95 version OSR2.0 must be running and you have to download the file "USBSUPP.EXE" from Microsoft web site.

To install this product:

(If you downloaded the file from Microsoft Web site and put file disk in driver A already, you can do the following steps.)

1. Start Windows Explorer.
2. Click on the A: drive(disk to display the contents of the floppy disk.
3. Double click on USBSUPP.EXE

### **How To uninstall this product**

1) Once you have installed the USB Supplement, it can be uninstalled from Control Panel, Add/Remove components. If for any reason you wish to reinstall the USB supplement, you must first uninstall any version currently on your system.

### **General Information**

For the latest information on Supportability and Troubleshooting the USB Supplement, check out <http://WWW.MICROSOFT.COM/KB> for access to our online Knowledge Base.

For USB device specific issues, contact your OEM or Vendor of the device.

These products are manufactured independent of Microsoft Corp.

## How To Install "VGARTD.VXD"

For the latest information from your mainboard vendor, they will support VGARTD.VXD for AGP chipset. Different Chipset mainboard vendors will support different VGARTD.VXD file for you. Please install first before you install the Direx 5.

## How To do the display setup

For the display adjustment, you can go to the "Setting", "Control Panel", then choose "Display". All you can see the full function setting, you can set it easily through these items, such as **Background, Screen Saver, Appearance, DPMS, Screen Adjust, Hotkey, Settings.**

[EX]

