STEALTH 3D 2000 Pro On-line User's Guide

Thank you for purchasing a Diamond Stealth 3D 2000 Pro video board. We know you will enjoy it. Stealth 3D 2000 Pro provides fast EDO-DRAM based, 64-bit graphics technology with realistic 3D and accelerated video playback. Stealth 3D 2000 Pro cards are capable of playing full-screen video clips at rates up to 30 frames-per-second.

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Hardware

High Performance Graphics Accelerator

- S3 ViRGE DX graphics processor with 170 MHz RAMDAC and streams processor for accelerated video playback
- 2 or 4 MByte fast EDO DRAM
- PCI 2.1 Bus
- VESA Power Management Support

Optimized 2D Acceleration

- BitBlt, Line Draw, Polygon Fill

Optimized 3D Acceleration

- Flat and Gouraud Shading
- Texture Mapping with perspective Correction, Bi- and Tri-linear Filtering
- Mip mapping
- Z-Buffering

Video

- Scaling of digital Video like VideoCD (MPEG-1) or Video for Windows with X and Y interpolation
- Hardware color space conversion
- Hardware double buffering
- Prepared for Diamond's DVD solutions

TV Output

- NTSC / PAL composite and S-Video
- Advanced 3-line digital flicker filtering
- Automatic detection of TV
- PC 97 compliant features

Software

BIOS

- VESA 2.0 support
- DDC2B support

Graphics Driver for

- Windows® 95
- Windows® 3.1
- Windows NT™ 3.51 and NT™ 4.0

Additional Software for Windows® 95

- InControl Tools 95
- DirectX 3 incl. Direct3D, DirectDraw and DirectVideo support
- Software MPEG decoder
- Microsoft Internet Explorer

Additional Software for Windows® 3.1x

- Software MPEG decoder
- Video for Windows DCI support
- Microsoft Internet Explorer

Additional Software for Windows NT^{TM} 4.0

- DirectDraw
- Software MPEG decoder
- Multi-monitor support
- Microsoft Internet Explorer

Additional Driver for DOS

- MS-DOS refresh tool
- MS-DOS mode centering tool

System Requirements

- IBM 486 or better or other 100% compatibles
- 4 MB RAM
- MS Windows ® 95 or DOS 5.0 or higher or Windows ® 3.1x
- PCI 2.1 compliant motherboard and available slot
- No other active VGA or SVGA compatible graphics accelerator in the PC

Card Layout

Two versions of the Stealth 3D 2000 Pro are available:

- Stealth 3D 2000 Pro with 2 MB EDO-DRAM and sockets for memory upgrade to 4 MB EDO-DRAM **with** TV Out
- Stealth 3D 2000 Pro with 2 MB EDO-DRAM and sockets for memory upgrade to 4 MB EDO-DRAM **without** TV Out

Stealth 3D 2000 PRO with sockets for memory upgrade and TV out
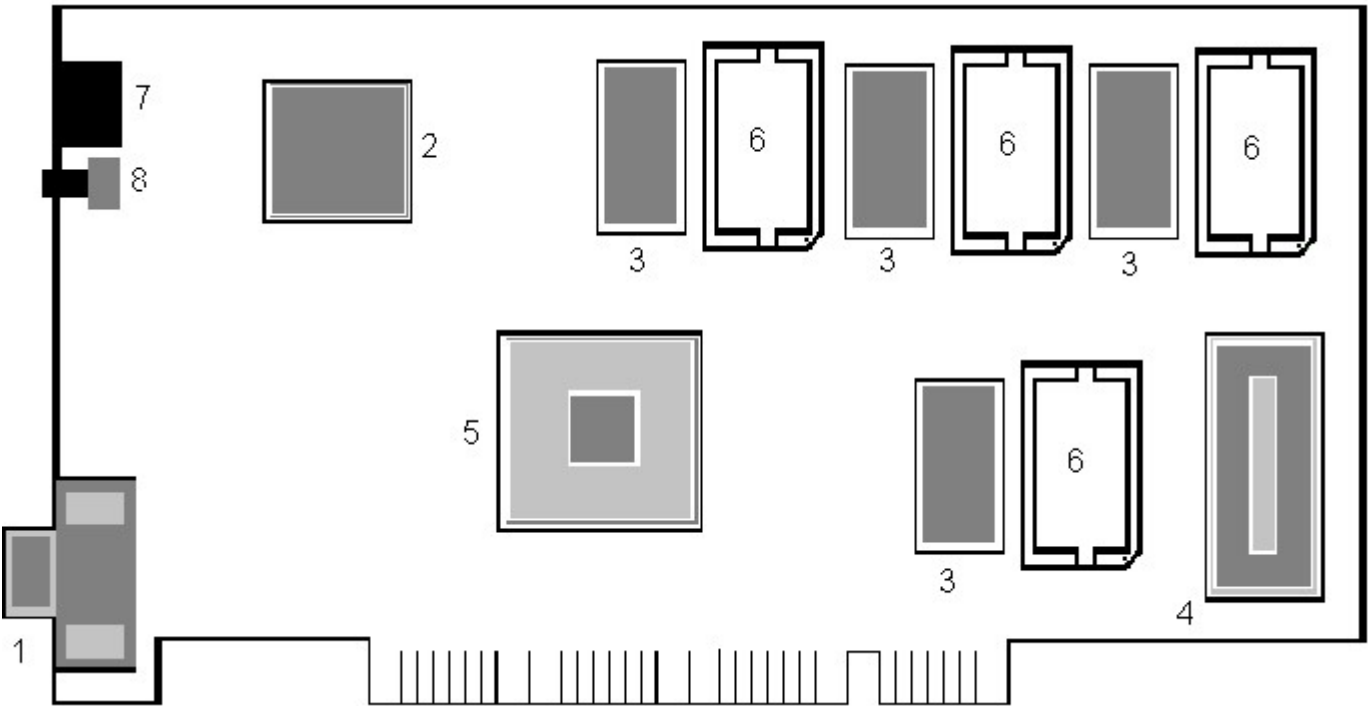
1 DB-15 Monitor Connector

2 TV Output Controller

3 EDO DRAM Memory Chips

4 BIOS

5 Graphics controller

6 Sockets for DRAM Memory Upgrade

7 S-Video Output (SVHS) (Mini-DIN 4)

8 Composite Video Output (Cinch)

Physically Installing Stealth 3D 2000 Pro

The installation is easy and straightforward. These installation instructions presume that you are familiar with your computer system. You may need to seek assistance from your dealer or consult your computer operations guide.

Installation procedure

Resolving interrupt conflicts

After installing the board

Warning!

Prevent static electric damage. Static charges can cause severe damage to microcircuits, but here are some easy ways to see that it doesn't happen:

Hold the graphics card by its edges only. Don't touch edge connectors or exposed circuitry.
Leave the card in the anti-static protective bag until ready to install it in your computer.
If possible, ground your body when handling the card. A metal power supply in your computer is generally considered the best place to ground yourself.
Do not place the graphics card on a metal surface.
Make as few movements as possible to avoid building up static electricity from your clothing, carpets and furniture.


Installation procedure

Step1: With the power off, remove the computer cover, find an available PCI slot and remove the bracket and screw. This is a good time to check if you have any co-resident graphics adapters built into the motherboard and disable them. If you do not disable them they will create a memory conflict with your graphic/multimedia card. This is also a good time to remove any old graphics cards from your computer.

- Remember which cables go to which connectors. You may want to label the cables and connectors before disconnecting them.
- Make sure you disable or remove any other video adapters installed in your system that may cause memory conflicts.

Step 2: Install the card firmly into its designated expansion card slot. Make sure to press it evenly and snugly into the slot. Once you are certain the card is installed properly in the slot, secure it with the bracket screw.
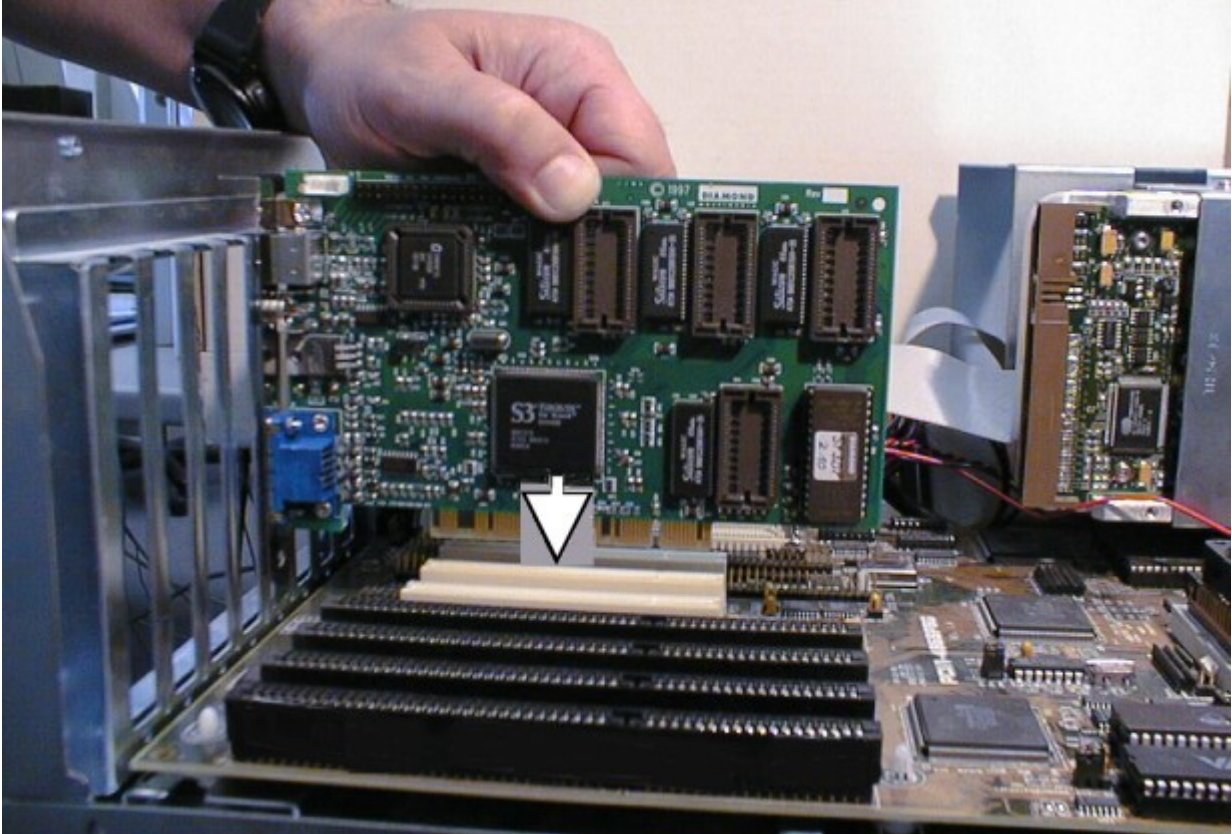
Step 3: Secure the computer cover and attach any previously removed cables. Use a standard IBM VGA DB-15 analog cable for the new graphic/multimedia card.

Step 4 (only for boards with TV-output): Connect TV with graphics card. To do so you need a cable which fits into the Composite or S-VHS output of the graphics card on one side and the TV video input connector on the other side. Please ask your TV dealer for any more specific information about the cable. The board comes without the cable. The system detects whether a TV is plugged in. The monitor does not necessarily have to be plugged in.

Resolving Interrupt Conflicts

To support the special graphics processor on the Stealth 3D 2000 Pro the system BIOS will automatically assign a system interrupt to the PCI slot where the Stealth 3D 2000 Pro is installed. However, there may be problems if a system interrupt is used for more than one device. In case of problems:

Check your computer's BIOS SETUP for the interrupt assignments. Refer to your PC manual for information on its BIOS SETUP and if possible

- change the interrupt assignment for the Stealth 3D 2000 Pro, or
- change the interrupt assignment for any other device sharing the interrupt with the Stealth 3D 2000 Pro

Try to manually change the interrupt assignment for any other device sharing the interrupt with the Stealth 3D 2000 Pro.

Check the documentation supplied with these devices for information on hardware switches for interrupt setting.

After Installing the Board

If you have correctly installed the board, the DOS messages will then appear on your monitor when the boot procedure is finished.

After successful installation of the board please continue with software installation.

If your system does NOT boot as it should,

- check again to see that the installation instructions were properly followed,
- check for interrupt conflicts - see Resolving Interrupt Conflicts, or
- refer to Fast Track to Technical Support.

Installing Software for Stealth 3D 2000 Pro

To make installing your video card easier and more intuitive, Diamond has provided an installation utility that will run automatically when you insert the Diamond SuperCD. From the SuperCD, you can learn more about Diamond and its products, install software drivers, and read on-line product manuals.

Installing Windows® NT Software

Installing Windows® 95 Software

Installing Windows® 3.1x Software

InControl Tools for Windows® 95 Software

Installing Windows® NT Software

1. Put the SuperCD into your CD drive and start the installation as follows:
2. **Windows NT 3.5x:** Start the Program Manager, select `File` - `Run` , then START.EXE from the root directory of the CD.
   Windows NT 4.0: Click the START button in the task bar, select the option `Run` and then select START.EXE from the root directory of the CD.
3. Choose `English` as your language for the installation.
4. Click the `Start Installation` button.
5. If necessary, select the hardware for which you wish to install; this is displayed in the `Product` drop-down list. The installation program usually recognizes your hardware automatically.
6. Click the `Next` button.
7. If desired, enter a path to which the software will be installed.
8. Click the button corresponding to the type of installation you want. If you select `Custom`, a list of software components will be displayed. Click the check boxes to specify the components you want to install.
9. A README file will be displayed. Please read this file!
10. After you have read the README, click `Next`.
11. When prompted to restart your computer, choose `Yes`.

Windows NT 3.5x

- Select `Display` in the `Control Panel` window. Set the resolution, color depth, and refresh rate that best suit your requirements and the performance of your monitor.
- Click `OK`.

Windows NT 4.0

- Click `Start` - `Settings` - `Control Panel` - `Display` - `Settings`, or click with the right mouse button on the Windows desktop, select `Properties` and `Settings`. Set the resolution, color depth, and refresh rate that best suit your requirements and your monitor's performance.
- Click `OK`.

Windows NT 3.5x / Windows NT 4.0

- The basic software is now installed. In Windows NT 3.5x you can see the new `STEALTH 3D 2000 PRO` icon in the `Control Panel` window.

Installing Windows® 95 Software

The software installation creates the InControl Tools 95 group in the list of programs in the Start group.

When you first install your new Stealth 3D 2000 Pro card in your system and boot Windows 95 for the first time, Windows 95 will inform you that it has discovered new hardware and will prompt you to install drivers for it.

If you're updating an existing installation or Windows 95's Plug and Play support doesn't request drivers when you start your system, use the SuperCD's installation program to install drivers and software for your card.

- Insert the SuperCD into your CD drive.
- When prompted for the location of your driver files, enter X:\DRIVERS, where "X" is the drive letter of your CD-ROM drive. For example, if your CD-ROM is drive D, you would type D:\DRIVERS.
- Click OK, and the driver files will be copied to their destination directories.

Sometimes Windows doesn't find all the files on the first try and prompts again for the path from which to install drivers. If this happens, use X:\DRIVERS again.

- When prompted to restart your computer, click OK. A dialog box will appear, asking if you want to complete the installation. If you want to install optional Diamond software, click on the INSTALL NOW button.

If Windows 95 does **not** display a message about new hardware when you start your system, put the SuperCD into your CD drive and start the installation as follows:

- If the installation program hasn't already started, click on the START button in the task bar, select the option RUN, and then select START.EXE from the root directory of the SuperCD.
- Choose the language for the software installation.
- Click the START INSTALLATION button.
- Confirm your hardware if necessary and click Next.
- Select either Standard, Custom or Minimal installation and specify a path on your hard disk to which the software should be installed. For the first installation we recommend the Standard installation, as all necessary programs will be installed.

Note: Custom installation allows you to choose which software components you want to install. If you decide you don't want to install a particular component, click on it again to de-select it.

- When Windows 95 prompts you to restart the computer, click Yes.

Installing Windows® 3.1x Software

Installing the Basic Software and Utilities

In order to use your board in your PC it is necessary to install a package of basic programs, regardless of the operating system in use. Please execute the following steps in order to install the basic software.

Put the SuperCD in drive E: and start the installation (from E:) as follows:

1. Start the Program Manager, select `'File'-'Run'`, then START.EXE from the CD.
2. Choose `English (E)` as your language for the installation.
3. The main menu is displayed.
4. Click on the `Start Installation` button.
5. Confirm your hardware if necessary.
6. Select one of the displayed installation options, and enter or confirm the path for the software installation. Depending on your choice, README information or a list of software drivers available for installation, is displayed.
7. Click the `Next` button and follow the instructions on the screen. The installation program will automatically copy all the necessary files onto your hard disk.
8. To enable the new driver installation the system restarts.

Note: The monitor configuration set by default is: 640x480 resolution; 60 Hz screen refresh rate.
Set higher screen refresh rates, resolutions, or color depths according to your monitor´s performance, for example, by using a corresponding tuning program. Refer to the online help for **InControl Tools Lite** (ICT Lite).

InControl Tool 95 for Windows® 95 Software

InControl Tools 95 provides a set of easy-access display and desktop utilities that help you maintain a picture perfect environment for work or pleasure.

With InControl Tools 95 you can:

- Use a popup menu to instantly switch desktop and viewport resolutions and zoom in and out on your viewport.

- Center windows and message boxes to the viewport or desktop.
- Control other display management features--screen saver, fast scroll, pan lock, even your hot keys and popup menus--with menu on/off switches.
- Adjust colour and brightness of video window
- Customize TV output according to your requirements
- Adjust your system's audio volume with a handy popup slider bar.
- Add or remove items from your left- or right-button popup menus.
- The **Setup Wizard** guides you through the complete InControl Tools customization process. It is run when you install InControl Tools for the first time, but you can run it again any time by clicking the InControl Tools tray icon and choosing Setup Wizard.
- For a more detailed description of the different InControl features please refer to the online help.

Quick start instructions

When you install InControl Tools 95, a tray icon is added to your Windows95 desktop and several new options are added to your Display Properties dialog.

Many of the new features available to you are activated immediately after installing InControl Tools and restarting Windows. You can then modify or toggle any feature on or off, either through the Display Properties dialog or directly from your enhanced desktop (right button) menu.

To start using InControl Tools immediately after installation and restart:

- Click your right mouse button on the Windows desktop. Your enhanced desktop menu appears. Note that this is the same Windows95 "right-click" menu that normally appears, but with several new items listed above the standard items. These new items are your InControl Tools enhancements. Check all features and submenus to review the default settings.
- Click your left mouse button on the Windows desktop. Your popup start menu appears. Note that this is the same menu that appears when you click the Start menu. Now, however, it's also available as a "floating" popup menu.

You're now ready to use or customize all of these new features (such as adding hot key shortcuts).

Hardware

High Performance Graphics Accelerator

- S3 ViRGE DX graphics processor with 170 MHz RAMDAC and streams processor for accelerated video playback
- 2 or 4 MByte fast EDO DRAM
- PCI 2.1 Bus
- VESA Power Management Support

Optimised 2D Acceleration

- BitBlt, Line Draw, Polygon Fill

Optimised 3D Acceleration

- Flat and Gouraud Shading
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- Z-Buffering

Video

- Scaling of digital Video like VideoCD (MPEG-1) or Video for Windows with X and Y interpolation
- Hardware colour space conversion
- Hardware double buffering
- Prepared for Diamond's DVD solutions

TV output

- NTSC / PAL composite and S-Video
- Advanced 3-line digital flicker filtering
- Auto detection of TV presence

- PC 97 compliant features

Software

BIOS

- VESA 2.0 support
- DDC2B support

Graphics Driver for

- Windows® 95
- Windows® 3.1
- Windows NT™ 3.51 and NT™ 4.0

Additional Software for Windows® 95

- InControl Tools 95
- DirectX 3 incl. Direct3D, DirectDraw and DirectVideo support
- Software MPEG decoder
- Microsoft Internet Explorer

Additional Software for Windows® 3.1x

- Software MPEG decoder
- Video for Windows DCI support
- Microsoft Internet Explorer

Additional Software for Windows NT^{TM} 4.0

- DirectDraw
- Software MPEG decoder
- Multi monitor support
- Microsoft Internet Explorer

Additional Driver for DOS

- MS-DOS refresh tool
- MS-DOS mode centring tool

System Requirements

- IBM 486 or better or other 100% compatibles
- 4 MB RAM
- MS Windows ®95 or DOS 5.0 or higher or Windows ® 3.1x
- PCI 2.1 compliant motherboard and available slot
- No other active VGA or SVGA compatible graphics accelerator in the PC

Compatibility

- 100% compatible with VGA, SVGA and VESA Standard

Service & Support

- 5 years warranty

- Free Software updates via BBS, Internet (www.diamondmm.com; www.diamondmm.de), CompuServe (GO SPEA)
- Fax-on-Demand Service
- Technical support through Hot-line

Video Modes

Resolution	Colours	Vertical refresh rate								
-	-	56	60	65	70	72	75	85	100	120
640x480	256	-	2	-	-	2	2	2	2	2
-	65k	-	2	-	-	2	2	2	2	2
-	16m	-	2	-	-	2	2	2	2	2
800x600	256	2	2	-	-	2	2	2	2	2
-	65k	2	2	-	-	2	2	2	2	2
-	16m	2	2	-	-	2	2	2	2	2
1024x768	256	-	2	-	2	2	2	2	2	-
-	65k	-	2	-	2	2	2	2	2	-
-	16m	-	4	-	4	4	4	4	4	-
1152x864	256	-	2	-	2	-	2	2	-	-
-	65k	-	2	-	2	-	2	2	-	-
1280x1024	256	-	2	-	-	2	2	2	-	-
-	65k	-	4	-	4	4	4	-	-	-
1600x1200	256	-	2	2	-	-	-	-	-	-

Note: The chart represents modes supported in Windows® 95. All modes and refresh rates may not be available for other operating systems.

All values listed in the table are MB.

Memory Expansion

Importance of Memory Extension

Your Stealth 3D 2000 PRO is fitted with 2 MB EDO-DRAM or 4 MB EDO-DRAM. This memory size is adequate for many applications on the market.
4 MB EDO-DRAM is recommended for higher resolutions, faster refresh rates, and/or higher color depths, or, if you want or need z-buffering (Direct-3D/Games).

Memory Expansion Modules

Optional memory modules (piggyback boards) are available.

For Stealth 3D 2000 PRO with 2 MB EDO-DRAM and upgrade sockets

Upgrade module:	2 MB EDO-DRAM
Maximum video memory:	4 MB EDO-DRAM

Adding Memory

Step 1: Take the graphics card out of your computer, if it is already installed.

Step 2: Install the four memory upgrade chips to the designated sockets on the graphics card - refer to the illustration.

1. Make sure that pin 1 on the chip, marked with a dot on the beveled edge, connects to pin 1 of the socket, marked by a beveled corner (X).
2. Press the memory upgrade chips evenly into the sockets until they are fully seated.

1 DB-15 Monitor Connector2 TV Output Controller

3 EDO DRAM Memory Chips

4 BIOS

5 Graphics controller

6 Sockets for DRAM Memory Upgrade (X)

7 S-Video Output (SVHS) (Mini-DIN 4)

8 Composite Video Output (Cinch)
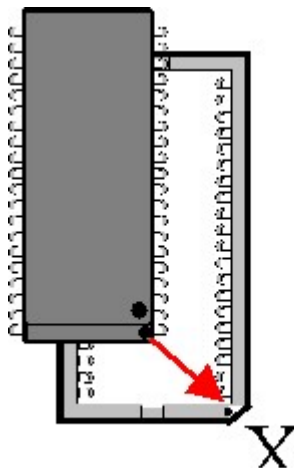
Step 3: Install the graphics card with the memory extension into your computer. Refer to Installing the Card.

Stealth 3D 2000 Pro Troubleshooting

Your board is a complex electronic device and can only be repaired by authorized technical personnel with the required equipment. Do not attempt to change or repair any parts of this product. Doing so will render your warranty invalid.

Contact the DIAMOND ExpertLine for the latest troubleshooting tips.

- Stealth 3D 2000 Pro is not properly installed

- The Stealth 3D 2000 Pro drivers are not correctly installed

- Booting problems

- Video problems

- Difficulty starting Windows and other applications

- General Protection Fault

Stealth 3D 2000 Pro is not properly installed

Check to make sure that Stealth 3D 2000 Pro is properly seated in its PCI slot and that the monitor cable is firmly and correctly connected to the Stealth 3D 2000 Pro. For more information, please see the Stealth 3D 2000 Pro Installation Instructions.

Stealth 3D 2000 Pro drivers are not correctly installed

Check to make sure that all software is correctly loaded and that the software configuration settings correspond to your operating system and applications. For more information, please see Installing Software for Stealth 3D 2000 Pro.

Booting problems

- No Video
- System hangs
- System beeps

Solutions

- Make sure the card is seated properly in its expansion slot and the monitor cable is securely fastened to the card.
- Check to see if your monitor is getting power. You should double check the electrical cable and the power switch.
- Make sure your monitor cable has the proper pin-out configuration. It should be able to work with a standard IBM VGA DB-15 analog graphics adapter.
- Check if there is another display adapter in your system, or if your system has built-in video on the motherboard. You should remove or disable it. Your dealer or system user guide may be able to assist you.
- Check other cards in your system that might be using the same addressing space, for example, network or modem cards.
- Disable any VIDEO ROM BIOS shadowing at location C000-C7FF in your PC's CMOS setup. You may find the option located in the '`Advanced CMOS Setup`'.
- Try to install the card to a different PCI slot.
- Try the card in another machine. If the card works properly in another computer, there is a conflict between the system configuration and the card. If you have tried all above suggestions, please contact the Technical Support for additional help.

Note: The Stealth 3D 2000 PRO card uses the following address areas.

I/O Address	3B0-3DF
Memory Address	A000-AFFF, B800-BFFF
Video BIOS	C000-C7FF

Video Problems

- Video Flicker
- Scrambled Video
- Screen Display is Small
- Monitor is not Listed

Solutions

- **Video Flicker**

Increase the vertical frequency for the resolution that you are using. Do not specify a frequency that exceeds your monitor´s frequency range.

- **Scrambled Video**

It is most likely that the selected frequency is not supported by your monitor. Select an alternative frequency that is supported by your monitor. For information on what resolutions and frequencies your monitor can handle, refer to the monitor´s user manual or contact your monitor manufacturer.

- **Screen Display is Small**

Use a lower vertical refresh rate. The selected vertical refresh rate may be too high for the monitor to support it. A reduced screen size may be the result

Note: For information on what vertical frequencies your monitor can handle, refer to the monitor´s user manual or contact your monitor manufacturer.

- **Monitor is not Listed**

To set up the video card for your monitor you will need the vertical and horizontal frequencies along with the polarity settings for each resolution. Using the *InControl Tools* mode utility for Windows you can configure your monitor by selecting the *User Defined Monitor* option.

Note: For information on what vertical frequencies your monitor can handle, refer to the monitor´s user manual or contact your monitor manufacturer.

Difficulty Starting Windows and Other Applications

Solutions

- Check your CONFIG.SYS file for a memory manager like QEMM386, EMM386, or 386MAX. A memory manager may be mapping devices in the video area, particularly in the "A000" or "B000" page. All Diamond cards use the memory area "A000-C7FF" exclusively.
- The following examples will help you to reserve the required memory area for your Stealth 3D 2000 PRO card. Optimize your memory use again after having modified your CONFIG.SYS file.

For using QEMM386 edit the following line in your CONFIG.SYS file DEVICE=C:\QEMM\QEMM386.SYS

add X=A000-C7FF, and for Stealth Option ST:F ST:M also add XST=C000

Example: DEVICE=C:\QEMM\QEMM386.SYS X=A000-C7FF XST=C000

In the SYSTEM.INI file, find the section that starts [386ENH]. Remove the line

DEVICE=MONOUMB2 ("Rem" the line with a semicolon at the beginning).

For using 386MAX edit the following line in your CONFIG.SYS file DEVICE=C:\ 386MAX\386MAX.SYS

add EXCLUDE=A000-C7FF

Example: DEVICE=C:\ 386MAX\386MAX.SYS EXCLUDE=A000-C7FF

In the 386MAX directory edit the file 386MAX.PRO, Place a semicolon (;) in front of the VGASWAP command.

Also check for further commands that may map memory areas conflicting with the video memory area A000-C7FF.

If this does not work, re-install 386MAX and select "NO" for the installation options ROM SEARCH, MDA AREA, and VGASWAP.

For using EMM386 edit the following line in your CONFIG.SYS file DEVICE=C:\DOS\EMM386.EXE

add X=A000-C7FF

You may need to remove HIGHSCAN

Example: DEVICE=C:\DOS\EMM386.EXE X=A000-C7FF

In the SYSTEM.INI file, find the section that starts [386ENH]. Edit the file and add the following statement: EMMExclude=A000-C7FF

If you have previously used MEMMAKER (DOS 6.x), run MEMMAKER again.

- Try to disable the following settings, because of possible conflicts with the driver installation: Wallpaper, 32-bit disk access, or 32-bit file and access Network drivers Screen Saver.

- Disable any programs that are loading automatically when starting Windows, for example, from the STARTUP group, RUN or LOAD lines from the WIN.INI file. Remove all programs from the STARTUP group and place semicolons (;) before the 'LOAD' and 'Run' lines in the WIN.INI file.

General Protection Fault (GPF) in Windows

Solutions

Follow the steps below to determine the cause of the problem.

- Change your display driver to 'Microsoft Standard VGA' - not 'VGA Version 3.0'
- If the problem still exists, an application may have been corrupted or has a conflict with Windows. Re-install the application and/or contact your application vendor for additional help.
- If the problem no longer exists, reset the display to the Stealth driver. Then edit your CONFIG.SYS file and "rem" all lines except of

DEVICE=C:\DOS\HIGHMEM.SYS

FILES=XX

BUFFERS=XX

for example: rem DEVICE=C:\DOS\ANSI.SYS

Then edit your AUTOEXEC.BAT file and "rem" all lines except of the PATH= statement.

Start your system again.

- If the GPF does not show, check your CONFIG.SYS file for a proper memory exclusion. Then add the"rem"-lines back one at a time to identify the source of the problem.
- If the GPF still shows contact the Technical Support for additional help.

Trademarks, Copyright and Warranty

Trademarks

IBM PC, OS/2 and OS/2 Warp are registered trademarks of International Business Machines Corporation.

MS-DOS, Windows, Windows NT and Windows ® 95, DirectDraw and Direct3D are either registered trademarks or trademarks of Microsoft Corporation.

OpenGL is a trademark of Silicon Graphics, Inc.

AutoCAD is a registered trademark of AutoDesk Inc.

Intergraph MicroStation is a registered trademark of INTERGRAPH.

MultiSync is a registered trademark of NEC Corp.

PCI and PCI Local Bus are registered trademarks of the PCI Special Interest Group (SIG).

All other names are tradenames / trademarks or registered trademarks of their respective owners.

Copyright Notice

Diamond STEALTH 3D 2000 Pro Warranty

You have a 5-year warranty for your DIAMOND Multimedia graphics card. To ensure your warranty, it is necessary that you keep the invoice for the graphics card. If your graphics card is damaged, contact your local retailer first.

Your board is a complex electronic device and can only be repaired by authorized technical personnel with the required equipment. Do not attempt to change or repair any parts of this product. Doing so will render your warranty invalid.

CE and FCC Compliance

This device complies with CE Certification pursuant to EN55002 IEC 801-2, 1991. This device also complies with Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in residential installation. This device generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

FCC Notice

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interference
that may cause undesired operation.

DECLARATION OF CONFORMITY

We, the Responsible Party

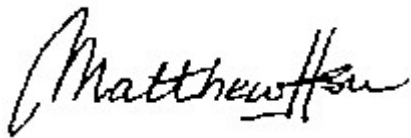**Diamond Multimedia Systems, Inc.**

2880 Junction Avenue

San Jose, CA 95134

declare that the product

Stealth 3D 2000 Pro

is in conformity with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

_____
(Signature)

MATTHEW M. HSU
(Full Name)

DIRECTOR, ENGINEERING SERVICES
(Position)