

## VIDEO

### DirectDraw:

In WIN 95 Silent Thunder uses DirectDraw drivers to allow high-speed full-screen graphics. The DirectX install in the Sierra Setup detects whether you have DirectX previously installed on your machine and gives you the option of updating to newer files, should your files be older than the current version. Updating may not be necessary in order for Silent Thunder to run properly, unless the DirectX installer marks the CERTIFIED column with a "NO." This indicates that the system has checked your version of DirectX and found that it doesn't conform to current standards.

Before updating DirectDraw over existing drivers, check your video card manufacturer's instructions. Some newer video cards use custom video drivers and updating these with standard Win95 drivers can cause problems. If you are in doubt, contact your video manufacturer before updating DirectDraw. Addresses and phone numbers for major video card manufacturers are listed at the end of this document.

### WIN32S:

In WIN 3.1, Silent Thunder uses the new WIN32S libraries. These libraries will be installed when you install Silent Thunder and will require you to reboot your system. Silent Thunder will not run in WIN 3.x without the WIN32S libraries. Note: It is necessary to have SHARE running for the WIN32S libraries to install properly. For more information, see the WIN 3.1 Issues section of README.WRI.

### Running Silent Thunder in a window:

Silent Thunder accesses your video card through the standard Windows video drivers. Running Silent Thunder in a window should function properly on any system that is properly configured to run Windows. If you should experience any problems while running Silent Thunder in a window, verify that the proper video drivers are selected in your Display Properties. If these selections are correct and you still experience problems, contact your video card manufacturer's Technical Support.

### Running Silent Thunder in Full Screen Mode:

Because Silent Thunder uses DirectDraw to produce high-speed, full-screen graphics, Full Screen mode is available only in a WIN 95 installation. Direct Draw allows Silent Thunder to run in full screen mode in either high-res or low-res modes, and provides some noticeable frame rate improvements. Not all video cards tested supported DirectDraw properly. If your card does not support DirectDraw, you may find that the game will freeze or crash to Windows when flying in full-screen mode.

NOTE - DirectDraw only affects Silent Thunder when running with Full Screen enabled in the Preferences Menu. If you are running Windows in 640x480 mode, you can play Silent Thunder in a full-screen window without using the full-screen mode and DirectDraw being present on your machine.

### Windows colors:

Silent Thunder was designed to run optimally with a 256 color video driver. If you have Windows set to HIGH COLOR (16 bit) or TRUE COLOR (24 bit), the program itself will play normally, but certain graphic transition screens may have odd colors, or may appear mostly black. You may also find that the program will run faster if you set your Color Palette to 256 colors.

#### Manually Installing DirectDraw:

If you should decide to upgrade video drivers or cards, or find that you need to reinstall DirectDraw, you can do so manually. Simply run Dxsetup.exe, which is found in the DirectX directory on your Silent Thunder CD.

NOTE - Some video cards provide their own DirectDraw support. Before installing DirectDraw manually, check your video card information to verify that you can install without overwriting critical files.

#### Diamond Stealth:

Diamond Multimedia Technologies has released updated video drivers for Windows '95 that will allow the Stealth cards to run with DirectDraw. Contact Diamond Multimedia for a set of Windows '95 drivers if you would like to run in full screen mode.

NOTE -- You can always run the game in Window play - the DirectDraw drivers will only correct problems in Full Screen (DirectDraw) mode.

#### What to do if you have problems:

Reboot -- The Sierra Setup utility program automatically detects whether your machine has DirectDraw installed and installs it, if needed. These changes will not take effect until after you restart your system.

Reinstall -- It is possible something interrupted the installation of Direct Draw. Uninstall Silent Thunder and install again. It may be necessary to allow Setup to update your DirectDraw drivers in order for Silent Thunder to run properly. Before updating existing DirectDraw drivers, consult your video card information to verify that you are not overwriting critical files.

Update your drivers -- Contact your video card manufacturer and verify that you have the latest video drivers for your card, and verify that these drivers do, in fact, work with DirectDraw. If you already have the newest drivers, verify that those drivers are the ones currently installed. If you have installed or updated WIN 95 or since you installed the newer video drivers, it is possible that Windows may have replaced the driver with an older version.

You can get information on your video card and drivers by clicking on SYSTEM in the Control Panel folder, selecting DEVICE MANAGERS, and clicking on DISPLAY ADAPTERS.

#### Video Card Manufacturers:

When attempting to resolve video problems with Silent Thunder, you should contact your video card manufacturer's technical support. Before calling you should make sure you have all of the information about your video card and monitor handy, and that you know what version of your video drivers you are using.

Below are addresses for some popular video card manufacturers:

Advanced Integration Research  
United States:  
408-428-0800 T/S  
408-428-1735 BBS

Advanced Micro Technology

United States:  
909-598-6120 T/S  
909-594-5770 BBS

Alpha Systems Lab  
United States:  
800-576-4275 T/S

Altech International  
United States:  
800-882-8194 T/S  
408-946-2227 BBS

Artist Graphics Company  
United States:  
800-627-8478 T/S  
612-631-7664 BBS

ATI Technologies  
United States:  
905-882-2626 T/S  
905-764-9404 BBS  
United Kingdom:  
01753 631121 TEL  
01753 631106 FAX

Atlaz Intl., Limited  
United States:  
516-239-1854 T/S

Boca  
United States:  
407-241-8088 T/S  
407-241-1601 BBS

Cache Computers, Inc.  
United States:  
510-226-9922 T/S  
510-226-7486 BBS

Cardinal  
United States:  
717-293-3124 T/S  
717-293-3074 BBS

Celerite Graphics, Inc.  
United States:  
510-226-6390 T/S  
510-226-7851 BBS

Cirrus Logic  
United States:  
408-435-8808 T/S  
510-440-9080 BBS

Colorgraphic Communication

United States:  
404-455-3921 T/S  
404-452-8238 BBS

Cornerstone Technology  
United States:  
800-562-2552 x306 T/S  
408-435-8943 BBS

CSS Laboratories, Inc.  
United States:  
800-966-2771 T/S  
714-852-9231 BBS

Diamond  
United States:  
408-325-7100 T/S  
408-325-7080 BBS (up to 2400bps)  
408-325-7175 BBS (above 2400bps)

Edge Technology, Inc.  
United States:  
800-438-3343 T/S

ELSA America, Inc.  
United States:  
800-272-3572 T/S  
415-588-6286 BBS

Focus Information Systems, Inc.  
United States:  
510-657-4586 T/S  
510-657-9451 BBS

Genoa  
United States:  
408-432-8324 T/S  
408-943-1231 BBS

Headland (Video Seven)  
United States:  
800-553-1850 T/S  
415-656-0503 BBS

Hercules Technology  
United States:  
510-623-6050 T/S  
510-623-7034 BBS (V32)  
510-623-7449 BBS (v32b)

Identity Systems Technology  
United States:  
800-723-8324 T/S  
214-705-7213 BBS

IOcomm Intl., Corp.

United States:  
800-998-8919 T/S

Liberty Electronics USA  
United States:  
800-497-8324 T/S

Matrox Electronics Systems Limited  
United States:  
800-462-8769 T/S  
514-685-6008 BBS  
United Kingdom:  
01793 614002 TEL  
01793 614336 FAX

Metheus Corporation  
United States:  
503-690-1550 T/S  
503-690-1559 BBS

MicroStep, Inc.  
United States:  
818-336-8991 T/S  
818-961-9992 BBS

Mirage Computer Systems  
United States:  
310-440-1460 T/S

Miro  
United Kingdom:  
01223 301102 TEL

National Design, Inc.  
United States:  
512-329-5055 T/S  
512-329-6327 BBS

Number Nine Computer Corporation  
United States:  
617-674-0009 T/S  
617-862-7502 BBS

Nth Graphics  
United States:  
800-624-7552 T/S  
512-832-1964 BBS

Oak Technology  
United States:  
408-737-0888 T/S  
408-524-9014 BBS

Orchid  
United States:  
510-683-0323 T/S

510-683-0327 BBS  
United Kingdom:  
01256 4798898 TEL  
01256 64222 FAX

Paradise  
United States:  
800-832-4778 T/S  
415-968-1834 BBS

Sigma Designs  
United States:  
510-770-0100 T/S  
510-770-0111 BBS

SixGraph Computing, Limited  
800-561-2892 T/S  
514-336-4169 BBS  
STB  
United States:  
214-234-8750 T/S  
214-437-9615 BBS  
United Kingdom:  
01344 874744 TEL  
01344 874546 FAX

SuperMac Technology, Inc.  
United States:  
408-245-0646 T/S  
408-773-4500 BBS

Swan Technologies, Inc.  
United States:  
800-468-7926 T/S  
814-237-6143 BBS

Trident  
United States:  
415-691-9211 T/S  
415-691-1016 BBS  
United Kingdom:  
01273 670570 TEL  
01273 670666 FAX

Video Logic, Inc.  
United States:  
617-494-0530 T/S  
617-494-4960 BBS  
United Kingdom:  
01923 260511 TEL  
01923 268969 FAX

Video Seven (Headland)  
United States:  
800-553-1850 T/S  
415-656-0503 BBS

VidTech Microsystems, Inc.  
United States:  
800-752-8033 T/S  
612-780-3564 BBS

Willow  
United States:  
718-402-9500 T/S