

Setup Guide

For use with Vidar Driver Installation CD 3.0 (USB or SCSI)



VIDAR device driver summary

Operating system	Device driver	EZ-SCSI Software	Update Toolkit (vscsi32.dll)	CDs needed
Windows™ XP Professional Edition, Service Pack 1 or higher	Vidar STI	No	Yes	VIDAR Drivers and Toolkit Installation CD
Windows [™] 2000 with Service Pack 2 or higher (Service Pack 4 or higher is required for USB connectivity)	Vidar STI	No	Yes	VIDAR Drivers and Toolkit Installation CD

IMPORTANT: Please save the CD. You will need it if you:

- Uninstall or reinstall the drivers.
- Upgrade the digitizer firmware.
- Replace the digitizer with another one having different firmware.
- Reinstall the scanning application.
- Install the digitizer and scanning application on another computer.

About the STI drivers

Previously, most system integrators built their scanning applications for VIDAR digitizers based on either the VIDAR SCSI Toolkit or the ActiveX control (based on the SCSI Toolkit). VIDAR's SCSI Toolkit was based on Adaptec's ASPI drivers. However, Adaptec[™] is not supporting its ASPI drivers for Microsoft Windows[™] 2000 or XP. Therefore, VIDAR developed a toolkit that takes advantage of Microsoft's Still Image Architecture (STI) for digital imaging devices. The new VIDAR Toolkit and VIDAR STI driver support several operating system enhancements.

The VIDAR STI driver was designed to provide compatibility between VIDAR medical film digitizers and Windows[™] 2000 and XP. Features of this driver include:

Installation/setup wizard for easy and consistent installation.

Scanners and Cameras Control Panel, which provides a common interface for still image devices.

Push-model event monitor and control center, a consistent model in which a still image device can initiate data transfer to an application (push model), in contrast to an application having to request data from the device (pull model).

No need to rely on unsupported ASPI-layer drivers from Adaptec[™] for SCSI adapters.

The VIDAR STI driver works with the new Toolkit (*vscsi32.dll*), which is automatically installed with the STI driver. The Toolkit was developed specifically to support the STI architecture:

It is a direct replacement for previous vscsi32.dlls.

No recompiles are necessary.

Installation automatically replaces the current vscsi32.dll with the new one.

Existing applications are easily configured to work with the Toolkit.

WARNING: VIDAR has validated the STI driver and replacement of *vscsi32.dll* with all supported VIDAR digitizers on both Windows[™] 2000 and Windows[™] XP systems using several third party software applications. No bugs or problems were identified during validation testing. However, you must check with your system integrator or scanning software vendor to verify that they support the replacement of VIDAR's *vscsi32.dll*.

NEXT:	If connecting digitizer via SCSI, go to "SCSI settings" $ee >$
	or
	If connecting digitizer via USB, go to "Installing USB drivers" 🖙

Configure the SCSI BIOS

Note: This step is required for SCSI installations.

A. Turn on the digitizer

1. Ensure the PC is turned off.

Note: Always apply power to the digitizer before turning on the computer. This enables the computer to recognize the digitizer.

- 2. Turn on the digitizer.
- 3. Watch the LEDs on the front of the digitizer. Wait until all LEDs are solid green (center LED may flash slowly). Then proceed to step 2, next in this chapter.



B. Edit the SCSI adapter BIOS settings

In most cases, the digitizer is not properly detected after you install the SCSI adapter. This is because the computer tries to boot from the adapter, but no SCSI hard disk is connected. You must correct this behavior in the SCSI BIOS.

1. Turn on or restart your computer. When the computer boots up, it will detect the SCSI Adapter. When this message appears on the screen, *immediately* press CTRL+A:

Press Ctrl+A for SCSISelect™ Utility!

(The message appears for just a few seconds.)

Note: In the next steps, use keyboard ARROW keys to navigate within a screen. When you have selected the desired option, press ENTER.

2. In the **Options** menu (see below), select the **Configure/View Host Adapter Settings** option, then press ENTER.

	AHA-2930CU at Bus:00h Device:0Dh
Would y SCSI d: Press	you like to configure the host adapter, or run the isk utilities? Select the option and press <enter>. <f5> to switch between color and monochrome modes.</f5></enter>
	Options Configure/View Host Adapter Settings SCSI Disk Utilities

3. Under Additional Options, select SCSI Device Configuration (see below). Press ENTER.

4. You will see SCSI Device ID #s 0 to 7. Initiate Sync Negotiation will be set to Yes or No. Set them all to No. Set Maximum Sync Transfer Rate to 10.0 for all. Press ESC to exit this screen.

SCSI Dev	ice C	onfiq	urati	on —				
SCSI Device ID	#0	#1	#2	#3	#4	#5	#6	#7
Initiate Sync Negotiation Maximum Sync Transfer Rate(MB/Sec) Enable Disconnection	no 10.0 yes	no 10.0 yes	no 10.0 yes	no 10.0 yes	no 10.0 yes	no 10.0 yes	no 10.0 yes	no 10.0 yes
Options Listed Below Have NSend Start Unit CommandBIOS Multiple LUN SupportInclude in BIOS Scan	NO EFF no no yes	FECT i no no yes	if the no no yes	BIOS no no yes	is I no no yes)isabl no no yes	ed — no no yes	no no yes

5. Select Advanced Configuration Options (see below) and press ENTER.

- 6. Select Host Adapter Bios. Set to Disabled.
- 7. Press ESC, then SAVE SETTINGS, then REBOOT.

NEXT: Go to "Installing SCSI drivers" \Box

Note:

- On Windows[™] 2000 computers, Service Pack 2 or higher must be installed for SCSI installations. Computers without Service Pack 2 or higher will not be supported.
- On Windows[™] XP Professional Edition, Service Pack 1 or higher must be installed for SCSI installations.

You will need:

• VIDAR Drivers and Toolkit Installation CD.

Note: These instructions have been successfully tested on a wide range of Windows[™] 2000 and Windows[™] XP systems. In rare instances, you may have difficulty installing the STI driver. If that happens, try again after logging on as Administrator, or as a user with Administrator rights.

- 1. Be sure the digitizer is turned OFF, and is NOT connected to the PC. Wait until you are prompted to connect the digitizer.
- 2. Turn on the PC.
- 3. Insert the **VIDAR Drivers and Toolkit Installation CD** into the CD-ROM. The installer should launch automatically.

If the installer does not launch automatically, double-click the appropriate CD drive icon under **My Computer** in WindowsTM Explorer.

4. In the first screen, click **Install Software**.



5. In the next screen, click Install Digitizer Driver.



- 6. You will see a message that the InstallShield Wizard is starting.
- 7. In the InstallShield Welcome screen, click Next.



8. If you are updating from older VIDAR SCSI drivers, you will see the message below. Click **Yes**.



9. In the License Agreement window, activate the I accept the terms of the license agreement, then click Next.



10. In the Ready to Install the Program window, click Install.



10. The Setup Status window will appear. Wait while the files are installed.



11. The Digital Signature Not Found window will appear. Click Yes.



12. InstallShield will indicate that installation is complete. However, drivers are not yet installed.

In the **...Installation Complete** window, activate **No, I will restart my computer later**, then click **Finish**.

- 13. Shut down the computer. Leave the VIDAR CD in the CD drive.
- 14. Earlier, you connected VIDAR SCSI cable part number 4270 to the digitizer. Now, attach the 50-pin connector on the other end of that cable to the external port on the SCSI adapter.
- 15. Turn on the digitizer.
- 16. Turn on the computer.
- 17. After Windows loads, the **Found New Hardware** window will appear, indicating that the digitizer is connected to the computer.
- 18. Next, the Digital Signature Not Found window will appear. Click Yes.



- 19. Verify that the digitizer drivers are fully installed by checking the device properties. Use the path for your operating system:
 - For WindowsTM XP Professional: Start > Control Panel > Printers and Other Hardware > Scanners and Cameras.
 - For WindowsTM 2000 Professional: Start > Settings > Control Panel > Scanners and Cameras.
- 20. In the device window, <u>right</u>-click **Vidar Film Digitizer**, then click **Properties** in the pop-up menu.

21. In the VIDAR Film Digitizer Properties window, click the VIDAR Properties tab.

VIDAR Film Digitizer Properties
General VIDAR Properties Color Management
Film Digitizer
Vendor Identification: VIDAR
Model Name: VXR-12
Serial Number: 300143
Firmware Version: 45.9
Hardware Version: 112
Manufacturer VIDAR Systems Corporation 365 Herndon Parkway Herndon, Virginia 20170 USA phone +1,703.471.7070 toll free 800.471.7226 fax +1.703.471.7655 info@filmdigitizer.com http://www.filmdigitizer.com
OK Cancel Apply

Note that:

- The digitizer will report as "VXR-12" for backward compatibility.
- You may not see the same firmware and hardware version as shown in the window above.
- The serial number will not report if the digitizer was just powered on. Your digitizer's serial number will be different from the one shown in the example above.

NEXT: Go to "Updating the VIDAR Toolkit" Page 24 \Box

Note: Your software may not operate correctly if the VIDAR toolkit is not updated.

Note: VIDAR digitizers with serial numbers 310000 and higher have USB 2.0 functionality. Some older models have USB ports, but require factory hardware upgrades to operate as USB devices. Contact VIDAR for details.

Note: Do not connect the digitizer to the computer until you are prompted during the driver installation process.

USB interface requirements

- The computer must have a USB 2.0 port. If you are not certain that the computer has a USB 2.0 port, contact its manufacturer. Be aware that the manufacturer may tell you that a USB 2.0 peripheral can be used with a USB 1.1 port. That combination may be possible for other devices, but the operating system will not recognize the VIDAR digitizer if it is connected to a USB 1.1 port.
- If the computer does not have a USB 2.0 port, you may install a USB 2.0 adapter. AdaptecTM (www.adaptec.com) offers several USB 2.0 adapters; however, VIDAR has only tested Adaptec Model USB2Connect, part number AUA-2000.
- The computer's operating system must be upgraded to the following level:
 - Windows[™] XP: Service Pack 1 or higher.
 - Windows[™] 2000: Service Pack 4 or higher. Microsoft does not support USB 2.0 on earlier service packs.
- The digitizer must be connected to the computer with a USB 2.0 cable. VIDAR provides an approved USB 2.0 cable (part number 4618) with all USB digitizer orders; this cable has been tested and approved for EMI radiated emissions.

Updating a previous VIDAR STI driver installation

or

If older VIDAR STI drivers are installed on this computer, you must first remove them, then perform a clean driver installation.

To remove older drivers:

1. For Windows[™] XP Professional: Start > Control Panel > Printers and Other Hardware > Scanners and Cameras.

On a Windows[™] 2000 system: Start > Settings > Control Panel > Scanners and Cameras.

- 2. VIDAR Film Digitizer should report in the Devices window. Click the Remove button.
- 3. Continue in "Installing the USB drivers," next.

Installing the USB drivers

You will need:

• VIDAR Drivers and Toolkit Installation CD.

Note: These instructions have been successfully tested on a wide range of Windows[™] 2000 and Windows[™] XP systems. In rare instances, you may have difficulty installing the STI driver. If that happens, try again after logging on as Administrator, or as a user with Administrator rights.

- 1. Be sure the digitizer is turned OFF, and is NOT connected to the PC. Wait until you are prompted to connect the digitizer.
- 2. Turn on the PC.
- 3. Insert the **VIDAR Drivers and Toolkit Installation CD** into the CD-ROM. The installer should launch automatically.

If the installer does not launch automatically, double-click the appropriate CD drive icon under **My Computer** in WindowsTM Explorer.

4. In the first screen, click Install Software.



5. In the next screen, click **Install Digitizer Driver**.



- 6. You will see a message that the InstallShield Wizard is starting.
- 7. In the InstallShield Welcome screen, click Next.

VIDAR Medical Film Digitizer D	river - InstallShield Wizard	×
	VIDAR Medical Film Digitizer Driver Installation Program	
	Welcome to the VIDAR Medical Film Digitizer Driver for Windows 2000 and XP installation program. DD NOT CONNECT THE DIGITIZER TO YOUR COMPUTER UNTIL AFTER THE INSTALLATION IS COMPLETE. PLEASE FOLLOW THE ON-SCREEN INSTRUCTIONS. Click Next to continue.	
InstallShield	< Back [Next >] Cancel	1

8. If you are updating from older VIDAR SCSI drivers, you will see the message below. Click **Yes**.

Question	×	1
?	If you proceed with this installation, existing VIDAR drivers will be removed. Do you wish to continue?	

9. In the License Agreement window, activate the I accept the terms of the license agreement, then click Next.



10. In the Ready to Install the Program window, click Install.



11. The Setup Status window will appear. Wait while the files are installed.



12. The Digital Signature Not Found window will appear. Click Yes.



13. InstallShield will indicate that installation is complete. However, drivers are not yet installed.

In the **...Installation Complete** window (not shown), activate **No, I will restart my computer later**, then click **Finish**.

- 14. Connect the digitizer to the computer's USB 2.0 port with a USB 2.0 cable.
- 15. Shortly after connecting the digitizer to the computer, the **New Hardware Found Wizard** window will appear.
 - If the computer is running WindowsTM XP, activate the **Install the software automatically** option, then click **Next**.
 - If the computer is running WindowsTM 2000, activate the **Install from a list or specific location** option, then click **Next**. In the next screen (not shown), select the CD drive.



16. The wizard will search for the USB driver files.



17. You may see a warning about Windows[™] Logo Testing. Click **Continue Anyway**.

Hardwa	re Installation
1	The software you are installing for this hardware: VIDAR Film Digitizer has not passed Windows Logo testing to verify its compatibility with Windows XP. [Tell me why this testing is important.] Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
	Continue Anyway

18. The wizard will indicate that files are being installed. This may take a minute or so to complete.



19. When the wizard is finished installing the driver, click Finish.



- 20. Verify that the digitizer drivers are fully installed by checking the device properties. Use the path for your operating system:
 - For WindowsTM XP Professional: Start > Control Panel > Printers and Other Hardware > Scanners and Cameras.
 - For WindowsTM 2000 Professional: Start > Settings > Control Panel > Scanners and Cameras.
- 21. In the device window, <u>right</u>-click **Vidar Film Digitizer**, then click **Properties** in the pop-up menu.
- 22. In the VIDAR Film Digitizer Properties window, click the VIDAR Properties tab.

IDAR Film Digitizer Properties
General VIDAR Properties Color Management
Film Digitizer
Vendor Identification: VIDAR
Model Name: VXR-12
Serial Number: 300143
Firmware Version: 45.9
Hardware Version: 112
Manufacturer VIDAR Systems Corporation 365 Herndon Parkway Herndon, Virginia 20170 USA phone +1.703.471.7070 toil free 800.471.7226 fax +1.703.471.7665 info@filmidigitizer.com http://www.filmdigitizer.com
OK Cancel Apply

Note that:

- The digitizer will report as "VXR-12" for backward compatibility.
- You may not see the same firmware and hardware version as shown in the window above.
- The serial number will not report if the digitizer was just powered on. Your digitizer's serial number will be different from the one shown in the example above.

NEXT: Go to "Updating the VIDAR Toolkit" Page 24 □

Note: Your software may not operate correctly if the VIDAR toolkit is not updated.

Updating the VIDAR Toolkit

The Update Toolkit DLL feature on the VIDAR Drivers and Toolkit CD updates the scanning application with the current VIDAR Toolkit Dynamic Link Library (DLL). Check with the scanning application vendor to ensure that the scanning application has tested *vscsi32.dll*, version 4.1.81.

WARNING: VIDAR has validated the STI driver and replacement of *vscsi32.dll* with all supported VIDAR digitizers on both Windows[™] 2000 and Windows[™] XP systems using several third party software applications. No bugs or problems were identified during validation testing. However, you must check with your system integrator or scanning software vendor to verify that they support the replacement of VIDAR's *vscsi32.dll*.

Note: The scanning application must be installed before performing the Toolkit DLL Update.

1. Insert the **VIDAR Drivers and Toolkit Installation CD** into the CD-ROM. The installer should launch automatically.

If the installer does not launch automatically, double-click the appropriate CD drive icon under **My Computer** in WindowsTM Explorer.

2. In the first screen, click Install Software.



3. In the next screen, click Update Toolkit DLL.



4. A DOS window will open. Wait while the files are updated.

** Velcome to the UIDAR Sustems Film Digitizew	***	
** Programming Library File Update Program	***	
***************************************	(
earching all local drives for copies of Vscsi32.dll, pdated: C:\Documents and Settings\Administrator\My Do 2.dll	please wait ocuments\Save for	Dan\Vscsi
pdated: C:\Scantest\colortarget\VSCSI32.dl1		
pdated: C:\Scantest\deltaep121\Vscs132.dll		
Dualeu. G. Nocantest Neitay VSCS152.011		
ndated: C:\Scantest\n121\Uscsi32.d11		
pdated: C:\Scantest\p133\Uscsi32.d11		
pdated: C:\Scantest\Vscsi32.dll		
pdated: C:\Scantest\zr4.1\Vscsi32.dll		
pdated: C:\Scantest\zr4.5\Vscsi32.dll		
pdated: C:\WINNT\twain_32\vxr\Vscsi32.d11		
umber of Vscsi32.dll files found = 12		
litin manage and have the mult		
kiting, press any key to quit.		

- 5. When you see the message "Exiting, press any key to quit," press any key or close the window by clicking the X in the upper right corner.
- 6. Remove the VIDAR Drivers and Toolkit Installation CD.

IMPORTANT: Please save the CD. You will need it if you:

- Uninstall or reinstall the drivers.
- Upgrade the digitizer firmware.
- Replace the digitizer with another one having different firmware.
- Reinstall the scanning application.
- Install the digitizer and scanning application on another computer.