3.0 SiliconDVR Installer (For PC/Laptop Only)



The installation instructions for installing SiliconDVR are split into two sets: One for Intel Pro1000 NIC-based systems, and a second set for other generic NIC's systems not compatible with the Pleora High Performance Driver for Intel Pro1000 NIC's (eg. Marvell Yukon). These installation instructions assume a clean install of SiliconDVR.



If a previous version of SiliconDVR has been installed on the computer, follow the uninstall steps in **`3.4 Uninstalling Previous Versions of SiliconDVR'**.



The SiliconDVR Installer is only to be used on computers meeting the minimum system requirements outlined below. It is not for use on the SI-2K

3.1 - Minimum System Requirements:

- Windows XP SP2 32-bit, SP3 32-bit, Vista Business 32-bit, Vista Ultimate 32-bit (Note: SiliconDVR 1.1 is not compatible with 64-bit versions of Windows).
- Intel Core 2 Duo 2.33Ghz Processor of faster. For Windows Vista, suggested CPU processor is 2.4Ghz Intel Core 2 Duo or faster.
- 2GB of RAM. For Windows Vista, 4GB of RAM suggested.
- Either Intel Pro1000 NIC or other 10/100/1000 Gigabit Ethernet NIC capable of 8K Jumbo Packets
- Intel GMA950 embedded graphics, GMA X3100 embedded graphics or Nvidia Geforce/Quadro series of discreet graphics cards.
- Hard-drive or SSD capable of sustained write throughput of 30MB/s.

3.2 Installing SiliconDVR for Pro1000 NIC's:

1. Certify that the Pro1000 NIC being used for SiliconDVR has the Intel Pro1000 NIC driver software installed and the NIC can operate as a "normal" NIC, capable of receiving normal TCP/IP network traffic such as email, internet, file-sharing, etc.



2. Open the SiliconDVR Installer. You will be greeted by the installer splash-screen. Press the "Next" button.



3. When you reach the "Select Components" screen, make sure that all three selections for CineForm, Pleora eBUS and Pleora iPort are checked.

Select Components	<mark>S</mark> iliconImagin,
Please select which of the additional components you w	
 ✓ Cineform Codec ✓ Pleora eBus Driver and Tools ✓ Pleora iPort Vision Suite 	
Cancel	Back Next >

4. Click the "Next" button and proceed with the installation of SiliconDVR.

5. After SiliconDVR is installed, the CineForm installer will launch. Click though the "next" button and then when you arrive at the install screen, press the "Install" button.

🐨 CineForm RAW 2K Codecs	3.3 Setup
	Welcome to the CineForm RAW 2K Codecs 3.3 Setup Wizard This wizard will guide you through the installation of CineForm RAW 2K Codess 3.3. It is recommended that you close all other applications before starting Setup. This will make it possible to update relevant system files without having to reboot your computer.
	Next > Cancel

6. After the CineForm Installer completes, the Pleora iPort Vision Suite will being installation. Click the "Next" button.



7. Under the "Setup Type" window select the "Complete" choice for installation.

Setup Type Select the setup type that best	uits your needs. Click the type of setup you prefer.	
	Concerne Compete Runtme	Description Al program features will be installed (Flequres the most disk space.)
InstallShield	< <u>B</u> ack	Next > Cancel

8. Once the iPort Vision Suite has completed installing, the Pleora eBUS driver Suite will launch. Click though the "Next" button until the driver is completed installing.



9. After the eBUS driver has completed installation, the installer will go back to the SiliconDVR installer splash-screen.

Installation Complete		8	icon magin
Silicon DVR has been successfully inst	alled.		
Click "Close" to exit.			
Please restart your computer before col	figuring the eBUS driv	/er.	

10. Once the SiliconDVR installer has completed, you will be prompted to reboot the computer.

our must contact your sustant for the new	nfiguration changes made to Silicon DVR to take
fect. Click Yes to restart now or No if g	
	/
Yes	No

11. Restart the computer.

12. Installing Drivers: After rebooting the computer, go into \Program Files\Pleora Technologies Inc\Ethernet Bus\Binaries\ and launch the EbDriverTool.exe.

🕒 🕒 🗕 📕 🔶 🕒	Technologies Inc 🔸 Ethernet B	Bus 🕨 Binaries 🕨	▼ 49 S	earch	
🖢 Organize 👻 🔠 View	ws 🔻 🛞 Burn				(
Favorite Links	Name	Date modified	Туре	Size	
Documents	📕 EbDriverTool.exe.html	8/11/2008 12:41 AM	File Folder		
	& ActivationTool	5/12/2008 12:31 AM	Application	57 KB	
Pictures	SebBaseLib.dll	5/12/2008 12:20 AM	Application Extens	19 KB	
Music	SEbBaseLib64.dll	5/12/2008 12:23 AM	Application Extens	20 KB	
Recently Changed	EbDriverTool	5/12/2008 12:31 AM	Application	79 KB	
9 Searches	EbDriverTool64	5/12/2008 12:31 AM	Application	90 KB	
Public	EbService	5/12/2008 12:31 AM	Application	171 KB	
	SetupLib.dll	5/12/2008 12:21 AM	Application Extens	164 KB	
	SetupLib64.dll	5/12/2008 12:24 AM	Application Extens	197 KB	
	SebUserLib.dll	5/12/2008 12:21 AM	Application Extens	100 KB	
	SebUserLib64.dll	5/12/2008 12:24 AM	Application Extens	104 KB	
	SthernetBus.dll	5/12/2008 12:21 AM	Application Extens	17 KB	
	EthernetBus64.dll	5/12/2008 12:24 AM	Application Extens	21 KB	

13. Once inside the EbDriverTool, you should see the active NIC on the computer available for installing the eBUS drivers on for use with SiliconDVR. It should be listed as "NIC Driver" under the "Driver" field.

cation	MAC	Driver	Description
PCI bus 0, device 25, function 0	00-30-48-66-6b-b9	NIC driver	GigE Link High-Performance IP Devi
ilable eBUS Components			Configure
GigE Vision Protocol Driver iPORT Protocol Driver			

14. Click on the Intel Pro 1000 NIC that will be used with SiliconDVR, and then click on the "Configure" button.

15. Inside the configuration window, choose the "**GigE Link High-Performance IP Device Driver**" choice.

river se	lection
	Select your preferred driver
	eBUS Optimal Driver
	Efficiency: Best Usage: New projects
	Limitations: Requires an Intel PRO/1000 NIC
	🔘 eBUS Universal driver
	Efficiency: Good Usage: New projects
	GigE Link High-Performance IP Device Driver
	Efficiency: Best
	Usage: Existing projects Limitations: Requires an Intel PRO/1000 NIC; no Internet connectivity
	O Manufacturer's NIC driver
	Efficiency: Poor Usage: Temporary
	cudy: rempro y
	< Previous Next > Finish Cancel

16. After the driver installs, close the configuration window.

17. The NIC in the main EbDriverTool window should now read "High Performance Driver" in the driver field.

ocation	MAC	Driver	Description
PCI bus 0, device 25, function 0	00-30-48-66-6b-b9	GigE Link High-Perfor	GigE Link High-Performance IP Devi
ailable eBUS Components			Configure
GigE Vision Protocol Driver iPORT Protocol Driver			

- 18. Quit the EbDriverTool application and then reboot the computer
- 19. After reboot, launch SiliconDVR.

3.3 Installing SiliconDVR for Generic NIC's:

As a pre-installation procedure to optimize the generic NIC and set IP Addresses for use with SiliconDVR, follow these procedures:

1. Go into the Network Connections dialog box by right-clicking on Network Neighborhood and going to "properties".

		rol Panel 🔸 Network	Connections		• 4	Search	× □ ۶
Name	ize ▼ 🚆 Vi Status	ews 👻 Device Name	Connectivity	Network Category	Owner	Туре	Phone # or Host Addre
Personal A	Area Network (nection etwork 88E8058 PCI	📕 linksys	twork Connection			,
	Bluetooth Netv Connection Not connected						

2. Right-click on the "Local Area Connection" and go to "properties".

3. Turn off the "Client for Microsoft Windows", "QoS Packet Scheduler", "File and Printer Sharing", and on Windows Vista, the "IPv6" option.

Marvell Yukon 88E8058 PCI-E Gigabit Ethemet C	ontroller
Cor	figure
his connection uses the following items:	
Client for Microsoft Networks	
🗹 🜉 Ethernet Bus Filter	
QoS Packet Scheduler	
E File and Printer Sharing for Microsoft Networks	
Internet Protocol Version 6 (TCP/IPv6)	
Internet Protocol Version 4 (TCP/IPv4)	
🗹 🔺 Link-Layer Topology Discovery Mapper I/O Dri	ver
Link-Layer Topology Discovery Responder	
Install Uninstall Pro	perties
Description	
Allows your computer to access resources on a Micro	thee
network.	3011

4. Click on the "Internet Protocol Version 4 (TCP/IPv4)" control and then the "properties" button.

5. Disable obtaining and address over DCHP, and manually set the IP address of the NIC to **169.254.143.1**. Then set the subnet mask to **255.255.255.0**.

6. Press "Okay" to close the TCP/IP properties window.

7. Next Press "Okay" to close the "Local Area Connection Properties" window. This will reset the NIC and the IP address of the NIC.

8. Right click-again to re-open the "Local Area Connection" by selecting the "Properties" setting again.

Networking Sharing		
Connect using:		
Marvell Yukon	88E8058 PCI-E Gigabit	Ethemet Controller
		Configure
This connection uses	the following items:	
Client for Mic		
Ethernet Bus		
QoS Packet		
	er Sharing for Microsoft	05400
1000	ocol Version 6 (TCP/IP) ocol Version 4 (TCP/IP)	20
Country of the second sec	opology Discovery Map	
	opology Discovery Res	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
Install	Uninstall	Properties
	Uninstall	riopenies
Description	22	
Allows your comput network.	er to access resources	on a Microsoft

9. Click on the "Configure" button and then in the driver settings window select the "Advanced Tab".

10. Click on the "Jumbo Packets" property and select the 9K packet size.



11. If you NIC provides these properties, next select the "Receive Buffers" property and set the number of buffers top 512.

The following properties are available for this network adapter. Click the property you want to change on the left, and then select its value on the night. Property: Value: BatteryModeLinkDetection BatterySpeedSettings RowControl Interupt Moderation IPv4 Checksum Offload Jumbo PacKet Large Send Offload (IPv4) Log Status Messages Max IRQ per Sec Network Address Phorty & VLAN Receive Buffers Speed & Duplex TCP Checksum Offload (IPv4)	General	Advanced	Driver	Details	Power Manageme	nt
BatteryModeLinkDetection BatteryModeLinkDetection BatterySpeedSettings FlowControl Interrupt Moderation IPV4 Checksum Offload Jumbo Facket Large Send Offload (IPV4) Log Status Messages Max IRQ per Sec Network Address Priorty & VLAN Receive Luffers Speed & Duplex	the prop on the r	perty you war ight.			e left, and then selec	
Batter/SpeedSettings RowControl Interupt Moderation IPV4 Checksum Offload Jumbo PacKett Large Send Offload (IPV4) Log Status Messages Max IRQ per Sec Network Address Phorty & ULAN Receive Duffers Speed & Duplex	-			-		
Speed & Duplex	Interru IPv4 C Jumbo Large Log St Max IF Netwo Priority	pt Moderation hecksum Off Packet Send Offload atus Messag RQ per Sec rk Address & VLAN	load (IPv4)	H		
	Speed	& Duplex	oad (IPv	4) -		

12. If your NIC provides these properties, select the "Transmit Buffers" property and set the number of buffers to 512.

			or this network adapter. e left, and then select its	
Property:			Value:	
IPv4 Checksum Off Jumbo Packet Large Send Offload Log Status Messag	(IPv4)	^	512	÷
Max IRQ per Sec Network Address Priority & VLAN Receive Buffers Speed & Duplex TCP Checksum Off Transmit Buffers		4)		
UDP Checksum Off Wake From Shutdo Wake Up Capabiliti	wn	4) *		

13. Press "Okay" to exit the driver configuration dialog box and then "Okay" again to exit the "Local Area Connection" properties dialog box.



14. Open the SiliconDVR Installer (SiliconDVRSetup1.1). You will be greeted by the installer splash-screen. Press the "Next" button.



15. When you reach the "Select Components" screen, make sure that all three selections for CineForm, Pleora eBUS and Pleora iPort are checked.

<mark>SiliconI</mark> maging
Next >

16. Click the "Next" button and proceed with the installation of SiliconDVR.

17. After SiliconDVR is installed, the CineForm installer will launch. Click though the "next" button and then when you arrive at the install screen, press the "Install" button.



18. After the CineForm Installer completes, the Pleora iPort Vision Suite will being installation. Click the "Next" button.



19. Under the "Setup Type" window select the "Complete" choice for installation.

ge Link 24.1.921 - InstallShield Setup Type Select the setup type that best :		ill be e most disk
InstallShield	< Back Next >	Cancel

20. Once the iPort Vision Suite has completed installing, the Pleora eBUS driver Suite will launch. Click though the "Next" button until the driver is completed installing.



21. After the eBUS driver has completed installation, the installer will go back to the SiliconDVR installer splash-screen.

Silicon DVR	SiliconImaging
Silicon DVR has been successfully installed.	
Click "Close" to exit.	
Please restart your computer before cofiguring the eBUS driver.	
Cancel	< Back Close

22. Once the SiliconDVR installer has completed, you will be prompted to reboot the computer.

'ou must restart u	our sustem for the configura	ation changes made to Silicon D	VR to take
	o restart now or No if you pl		vii to take

23. Restart the computer.

24. After rebooting the computer, go into \Program Files\Pleora Technologies Inc\Ethernet Bus\Binaries\ and launch the EbDriverTool.exe.

Organize 👻 📗 Vie	ws 👻 🛞 Burn				
avorite Links	Name	Date modified	Туре	Size	
Documents	📕 EbDriverTool.exe.html	8/11/2008 12:41 AM	File Folder		
	d ⁺ ActivationTool	5/12/2008 12:31 AM	Application	57 KB	
Pictures	SEbBaseLib.dll	5/12/2008 12:20 AM	Application Extens	19 KB	
Music	SEbBaseLib64.dll	5/12/2008 12:23 AM	Application Extens	20 KB	
Recently Changed	EbDriverTool	5/12/2008 12:31 AM	Application	79 KB	
Searches	EbDriverTool64	5/12/2008 12:31 AM	Application	90 KB	
Public	EbService	5/12/2008 12:31 AM	Application	171 KB	
(dbite	SetupLib.dll	5/12/2008 12:21 AM	Application Extens	164 KB	
	SetupLib64.dll	5/12/2008 12:24 AM	Application Extens	197 KB	
	SEbUserLib.dll	5/12/2008 12:21 AM	Application Extens	100 KB	
	EbUserLib64.dll	5/12/2008 12:24 AM	Application Extens	104 KB	

25. Once inside the EbDriverTool, you should see the active NIC on the computer available for installing the eBUS drivers on for use with SiliconDVR. It should be listed as "NIC Driver" under the "Driver" field.

ocation	MAC	Driver	Description	
PCI bus 12, device 0, function 0	00-1b-63-9d-98-1e	NIC driver	Marvell Yukon 88E	3058 PCI-E Giga
ailable eBUS Components GigE Vision Protocol Driver				Configure
PORT Protocol Driver				

26. Click on the appropriate NIC that will be used with SiliconDVR, and then click on the "Configure" button.

27. Inside the configuration window, choose the "**eBUS Universal Driver**" choice.

etwork Adapter Conf	Liguration Wizard
Driver selection	
1	Select your preferred driver
	eBUS Optimal Driver
	Efficiency: Best Usage: New projects Limitations: Requires an Intel PRO/1000 NIC
	eBUS Universal driver
	Efficiency: Good Usage: New projects
	GigE Link High-Performance IP Device Driver
	Efficiency: Best Usage: Existing projects Limitations: Requires an Intel PRO/1000 NIC; no Internet connectivity
	O Manufacturer's NIC driver
	Efficiency: Poor Usage: Temporary
	< Previous Next > Finish Cancel

28. After the driver installs, close the configuration window.

29. The NIC in the main EbDriverTool window should now read "eBUS Universal Driver" in the driver field.

ocation	MAC	Driver	Description
PCI bus 12, device 0, function 0	00-1b-63-9d-98-1e	eBUS Universal Driver	Marvell Yukon 88E8058 PCI-E Giga
ailable eBUS Components			Configure
GigE Vision Protocol Driver iPORT Protocol Driver			

- 30. Quit the EbDriverTool application and then reboot the computer
- 31. After reboot, launch SiliconDVR.