



Osprey® MultiMedia Capture Driver Release Notes Driver Version 4.5.0.76

For the following Card(s):

Osprey 100 Osprey 101 Osprey 200 Osprey 210 Osprey-220 Osprey 230
Osprey 300 Osprey 440 Osprey 530 Osprey 540 Osprey 560

For the 32-bit and 64-bit version of Microsoft Windows XP, Server 2003, Vista Business SP1, Server 2008 Enterprise SP2, and Windows 7

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Introduction

This is a "Series IV" AVStream video and audio capture driver for all models of ViewCast Osprey video capture cards listed above. This includes selected Legacy cards no longer in production.

Like the earlier Series III drivers, these drivers are built on Microsoft's AVStream / DirectShow® driver model.

Please note that ViewCast no longer supports new development or bug fixes in older Video for Windows (VfW) drivers used in Microsoft O/S versions prior to Windows XP. Those legacy drivers may still be downloaded from the ViewCast web site.

This driver works only with genuine Osprey video capture cards designed and marketed by ViewCast Corporation of Plano, TX USA.

New Features (from version 4.4)

Series IV drivers are based on Osprey Series III drivers with a number of enhancements that can take advantage of the increased performance of the latest generation of PCs.

Revisions

- Corrected possible freeze due to dispatch level call of nonpaged GetAudioPauseCount(). (ID 5914)
- Corrected issue in NTSC format and with left and/or right cropping is enabled that would cause the video to skew. (ID 5852)
- Resolved issue when trying to crop the top of the video resulting in value being applied to bottom of video. (ID 5853)
- Revised name from "slot" to "device" in device info. (ID 4959)
- The Mark/Sync control is removed.
- VBI raw data stream issues with timestamp have been corrected.
- Adaptive deinterlace default threshold reduced from 16 to 10.
- Video proc amp is recalibrated for all products.
- SECAM SatU and SatV calculation and defaults revised for o200, o300, and o440.
- Sharpness filters for o200, o300, and o440, and default index revised.
- Sharpness filters reordered for o530 SDI.
- Revised proc amp configuration data needed for Windows 7.

Troubleshooting

If the installation program for this driver appears to hang, press Alt-Tab to ensure the installation screen is not hidden.

The 'Digital Signature Not Found' window may appear during the installation. Select the 'Continue Anyway' button to dismiss this dialog.

Osprey-300 IEEE 1394 Ports

The Osprey-300 has the same features as an Osprey-230, with two IEEE 1394 ports added to it. The 1394 ports reside on a separate Plug and Play device controlled by standard windows drivers. These are separate from the Osprey analog Bt878A device and the older Osprey Video for Windows analog drivers (Series II and earlier). The 1394 ports support Digital Video devices such as camcorders, and also non-DV devices such as hard drives.

The 1394 ports are WDM rather than Video for Windows devices. DirectShow applications such as Windows Media Encoder 9 will work directly with them. Video for Windows applications will probably not work with 1394 devices connected to the Osprey 300. Many DirectShow applications will capture DV video but not DV audio.

The 1394 device works only on Windows 2000 and XP. Windows NT4.0 does not have built-in 1394 support.

Implications Related to 4.5 Patches

This release 4.5 completely replaces all previous Osprey drivers listed in the introduction section. All installations of previous Osprey drivers must be removed prior to installing this version.

Testing the Driver:

The "OspreyConfig" application is available to verify operation of the Osprey driver. This application is available under: Start\All Programs\ViewCast\AVStream\Utilities

Manuals and Help:

Refer to the Osprey User Guide for detailed information about the Osprey drivers.

As an addendum to the User Guide:

The Osprey card also supports a Dual Mono input. This can be selected from the audio properties page by pressing "Dual Mono" and selecting "Dual Mono Mode". Dual Mono mode means that the audio input pairs of each device are separate mono channels appearing as separate audio capture filters. (ID 6275)

Latest Drivers and documentation:

Before installing, check the ViewCast Corporation Website at www.viewcast.com for the latest drivers and documentation.

If there is no newer driver at the time of your installation, periodically check the Website for newer versions.

Known issues in version 4.5:

Release 4.5 is not WHQL-certified.

PCI bus numbers of 16 or higher:

The drivers support multiple Osprey single-channel cards (up to 15) on a PCI bus. Due to PCI bus limitations, attempting to enumerate 16 or more devices will cause failures. This may affect users who require a large number of Osprey-230, Osprey 440, Osprey 300, Osprey 530 or Osprey 560 cards in a single system. These cards have on-board PCI bridge chips that create one additional PCI bus for each card. As a result, adding multiples of these cards to a system may quickly create more than 16 PCI devices on a system. The drivers will fail to function properly with cards on PCI bus number 16 or higher.

Sndvol32.exe error message under Windows 2003 SP1: The Sndvol32.exe application will display an error message under the Windows 2003 SP1. Select OK through the two message dialogs and the sound panel applet will function normally.

When setting the video standard to SECAM, the video format to RGB32, and the input to composite or S-video, you may experience color inconsistencies.

The RefSize should not be adjusted after enabling closed caption because the closed caption text may be unreadable.

The online help refers to the control groups which are no longer present.

When the input is SDI, the contrast slider works the opposite as published in the user guide.

When the input source is SDI and the Ratio is set to CCIR-601, the preview and captured video remains at 320x240 rather than changing to 360x240.

On a machine imaged with Windows 7, the Osprey audio devices may persist in the Windows Media Encoder audio device selection drop-down after the driver is uninstalled due to an uninstalled registry entry. (ID 5702)

On some systems if you change the PCI slot for the capture card it may not be seen. You will need to let the system install a PCI-to-PCI bridge then reboot the system and reinstall the driver. (ID 5973)

Changing the input video selection from NTSC to PAL does not change the description of Lines/Hz on the Osprey 530. The Osprey 530 will change the Lines/Hz based on the actual video input. (ID 6031)

The text overlay for the No-Video Test pattern only displays 31 characters although the test box allows you to enter 32 characters. (ID 6032)

On a system with Windows 7, the Osprey audio devices are still present in the Windows Media Encoder audio device selection drop-down after the driver is uninstalled. This is due to a registry setting by Windows Media Encoder. (ID 5701)

For 64 bit operating systems the Help file from Osprey Config will not open. The workaround is too Navigate to the ViewCast folder via Program Start and open the x86 version of the OspreyConfig help file. (ID 6190)

Driver Installation:

The examples provided are Microsoft Windows XP and other OS versions may vary. Depending on your system setup, you will have multiple options for the installation of the Osprey MultiMedia drivers. By default, the installer will install the drivers for all supported Osprey cards. Select the Custom radio box during the install process to select installation of specific drivers.

Following are the different scenarios and their methods of installation:

INSTALL SCENARIOS

There are three main situations that might apply to you:

Scenario 1: Osprey card(s) physically installed, but Osprey software not installed

*** RECOMMENDED METHOD***

Scenario 2: Osprey card(s) physically installed, and previous Osprey software installed.

Scenario 3: Osprey card(s) not physically installed in the PC.

You must uninstall all previous installations of the Osprey drivers prior to installing this version. You must also reboot your computer after uninstalling.

If you need to re-install this driver (classes 1-4), you must uninstall any previous class 1-4 drivers and reboot. You do not need to uninstall other card classes of drivers.

In all cases, the most efficient and complete installation method is to run the setup.exe program on the product CD or in the Web package you downloaded after you have installed the Osprey card(s). The setup program automates the Plug and Play steps required to install the drivers and ensures they are performed correctly. It also installs the bundled applets and documentation. If you have multiple Osprey capture cards in the system, it sets all of them up at once.

It is possible to install the Osprey drivers using the Hardware Installation Wizard. Select Have disk and navigate to the card specific Drivers directory located on the installation disk to select the inf file. This is an advanced feature and will not be supported by additional documentation or Customer Support. Use this method at your own risk.

The installer provides a Custom installation option, which allows selected installation.

Although the installer allows drivers to reside across mapped network drives, this method is not recommended because it will not allow a proper uninstall.

Scenario 1: Osprey card(s) physically installed, but Osprey software not installed

Run the Installation Program:

When the OS is started for the first time after the Osprey card is installed, the New Hardware Found wizard will appear one or more times. CANCEL OUT OF THESE WIZARDS.

After the OS has finished starting, do the following:

1. Double-click the setup.exe file. This will start the installation program.
2. If you choose to do a custom install, select Destination Folders and Program Folders when prompted.
3. When the installation is finished, the driver will prompt you to restart the PC.

If there are multiple Osprey cards in the system, this installation method will set up all of them at once automatically.

SCENARIO 2: OSPREY CARD(S) PHYSICALLY INSTALLED, AND PREVIOUS OSPREY SOFTWARE INSTALLED

This scenario is for the case when the Osprey card is physically installed in the PC and there is a previous installation of the Osprey drivers.

It is necessary to uninstall the old driver before installing the new driver. You must also reboot your computer after uninstalling.

After restarting, the New Hardware Found wizard will appear one or more times. CANCEL OUT OF THESE WIZARDS.

Run the Installation Program

1. Double-click the setup.exe file. This will start the installation program.
2. If you choose to do a custom install, select Destination Folders and Program Folders when prompted.
3. If you have one or more Osprey-200s in the system, you will need to restart the system before you can use the updated audio. If you have video-only cards, you do not need to restart the system - the Osprey card(s) can be used immediately.

SCENARIO 3: OSPREY CARD(S) NOT PHYSICALLY INSTALLED IN THE PC

This scenario is called the "Preinstall Scenario." After the install is run, as soon as an Osprey card is installed in the PC, it is detected and its drivers are started automatically.

1. Double-click the setup.exe file to start the installation.
2. If you choose to do a custom install, select Destination Folders and Program Folders when prompted.
3. You will then be prompted to preinstall the drivers. Select Yes to continue.
4. The Osprey software is now fully installed. It will be ready for use after you install the Osprey card in your computer.
5. When you are ready to install the card, shut down and install the Osprey card inside your computer, then power up the computer. The OS will detect the newly present Osprey card, and begin to activate the pre-installed driver. The Osprey card will then be ready for use.

Important Notice

If you are using an Osprey-500 or an Osprey-2000 card in the same machine as your Osprey MultiMedia card, we strongly recommend you upgrade the Osprey-500 or the Osprey-2000 driver to the version 2.1.0 or later, available on the ViewCast Web site. ViewCast has not developed Series III or IV AVStream drivers for these models. Note that Windows XP still supports the older Video for Windows (VfW) driver architecture, but newer Microsoft O/S versions may not have support for VfW-style drivers.

Support Contact information:

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