Quintic Software

Tutorial 5

Video Codecs

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1. Video Codecs

A video codec is a device or software that enables video compression and/or decompression for digital video.

There is a complex balance between the video quality, the quantity of the data needed to represent it (also known as the bit rate), the complexity of the encoding and decoding algorithms, robustness to data losses and errors, ease of editing and a number of other factors.

Quintic currently recommend using the relevant codecs from the following list as necessary in your level of Quintic software:

- LAV Filters

- Xvid MPEG 4 Video Codec Package

- Vista Video Codec Package

- Motion JPEG Codec

All of these codecs / video utilities can be downloaded from:
www.quinticsports.com/system-tools-video-codecs/

Installing the recommended codecs provides your system with specific instructions on how to compress and decompress videos. Once you've installed the codecs on your system you will be able to play the videos within the Quintic Video Analysis software.

N.B. **Please do not install every codec listed on the Quintic Website. If more than one video codec is installed onto a PC, they can potentially conflict with each other and cause playback issues. Only install the one(s) you need. Should you require guidance on which video codec(s) you may require, please contact Quintic at info@quintic.com**

2. LAV Filters

With the ever-increasing recording devices available on the market, so does the demand for codecs required for playing and compressing these videos. The LAV Filter codec (0.74.1) will enable the following videos using **'avc1/H.264 codec'** to play within the Quintic Software: for example, GoPro (.MP4), iPhone (.MOV).

Please follow the step by step installation instructions carefully!

Download the LAV Filters codec from www.quinticsports.com/system-tools-video-codecs/ option (A).

Once the file has downloaded, double click to run.

During the LAV install UNTICK the avi files from the LAV codec (Quintic does not require additional codecs to run avi videos).

It is important the AVI box is unticked during the installation process to ensure that all of the standard AVI video files which Quintic High Speed Cameras create are not affected.

Once unticked, continue with the installation process.

N.B We would NOT recommend installing this AND Vista Codec Pack.

3. Xvid

XviD is the name of a popular video codec being developed by volunteer programmers from all over the world. The format was created to offer a free alternative to other commercial video codecs, and despite being open source, its quality and efficiency has made it one of the most popular video codecs online.

The XviD codec makes it possible to compress a full-length DVD-quality movie enough to fit on a single CD, while still maintaining the original image quality. Despite the fact that XviD movies offer higher quality videos at smaller file sizes, they take less time to encode than MPEG-2 due to the incredible compression technology.

When you install the XviD codec it basically provides your system with specific instructions on how to compress and decompress video in the XviD format. Once you've installed the XviD codec on your system you will be able to play XviD videos using Windows Media Player or any other XviD-enabled player.

Please follow the step by step installation instructions carefully!

Download the Xvid codec pack from www.quinticsports.com/system-tools-video-codecs/ option (B).

Once the codec pack has been saved double click on the icon to begin the installation.

Follow the onscreen instructions and accept the licence agreement.

Continue with the installation. Once it has completely installed you may have to restart your computer.

This codec is particularly useful when using the trim and export analysis features within Quintic v31 software.

4. Vista Codec Pack

The Vista codec Package is a collection of codec's (audio and video). We would generally recommend using this codec pack to run mp4/MOV etc on older operating systems (i.e Vista and earlier).

We would not recommend installing this and LAV filters.

Vista codec Pack allows the user to choose which codecs are to be installed on the machine.

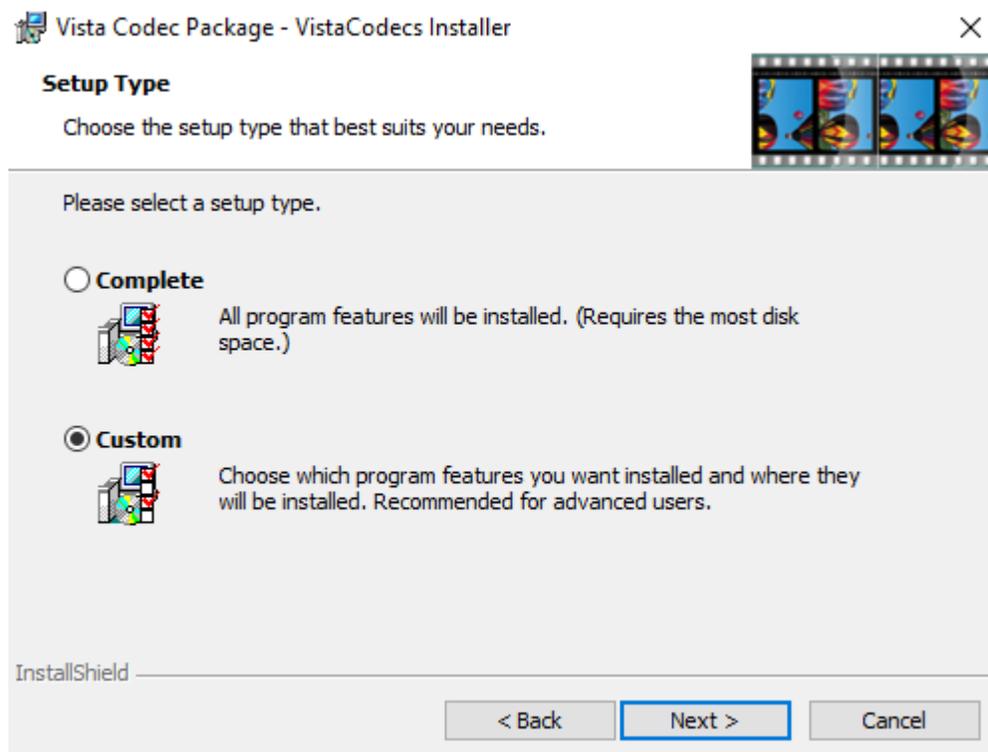This version of Vista Codec Pack is completely free and size of file is 22.7 MB.

Please follow the step by step installation instructions carefully!

Download the vista codec pack from www.quinticsports.com/system-tools-video-codecs/ option (C).

Once the codec pack has been saved double click on the icon to begin the installation.
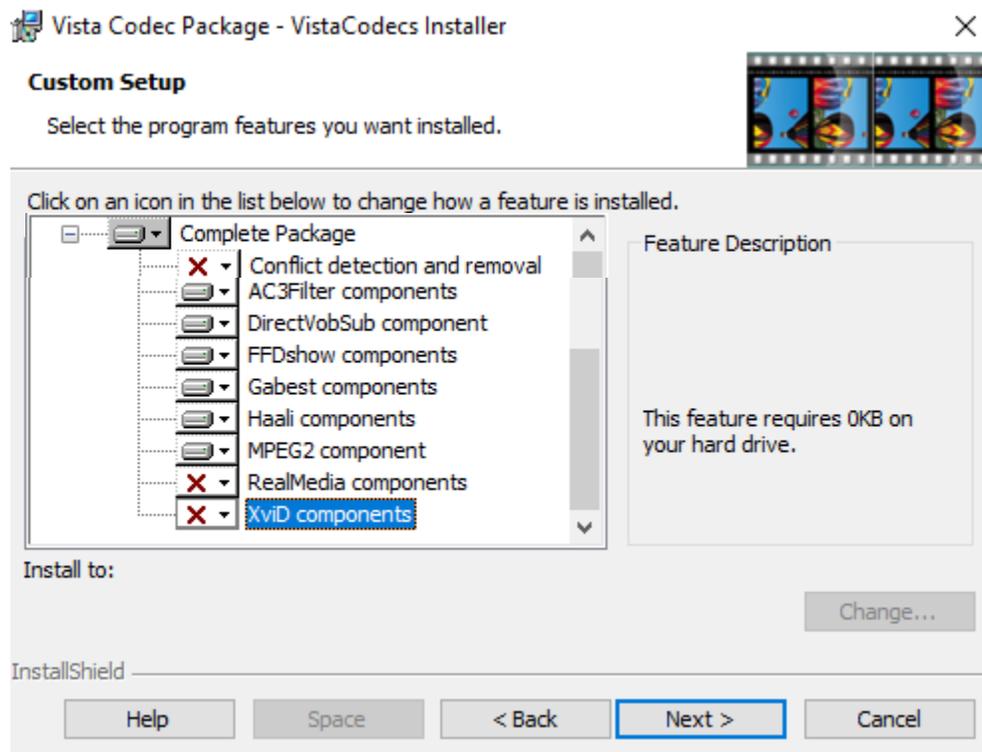
Follow the onscreen instructions and accept the licence agreement.

On the following screen select '**CUSTOM'** not complete install. If you select complete install it will cause a software conflict and may affect your ability to capture videos.

On the drop down menu please left click on '**Conflict detection and removal'** then scroll down and select **'this feature will not be available'**. Repeat this for **'RealMedia components'** and **'Xvid components'** also.

If done correctly these three items should now have red crosses next to them.

Now continue with the installation process.

5. Motion JPEG Codec

This codec is for use with the Casio FH20, FH25, FH100 High-Speed camera.

Please follow the step by step installation instructions carefully!

Download the Motion JPEG Codec pack from www.quinticsports.com/system-tools-video-codecs/ option (D).

Once the codec pack has been saved, you will need to run the **mjpegcodecv3.2.4.exe** file and follow the installation instructions given.