

# Vegas<sup>™</sup> Movie Studio HD Platinum

## Quick Start Manual



This quick start manual provides you with a brief introduction to Vegas® Movie Studio HD Platinum software. For more details on using the software, see the online help. To access the online help, choose **Contents and Index** from the **Help** menu.

After Vegas Movie Studio HD Platinum software is installed and you start it for the first time, the registration wizard appears. This wizard offers easy steps that allow you to register the software online with Sony Creative Software Inc. Alternatively, you can register online at <https://www.sonycreativesoftware.com/reg/software> at any time.

Registering your product will provide you with access to a variety of technical support options, notification of product updates, and special promotions exclusive to registered Vegas Movie Studio HD Platinum users.

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Sony Creative Software Inc.  
8215 Greenway Blvd.  
Suite 400  
Middleton, WI 53562  
USA

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# Chapter 1 Introduction

## Welcome

Vegas® Movie Studio HD Platinum software from Sony Creative Software Inc. is an innovative and advanced multitrack media-editing system. This software was designed to create an efficient audio/video production environment without sacrificing the quality and processing power that you expect from Sony Creative Software Inc. Whether it's the standard and familiar Microsoft® Windows® navigation commands or the clean and uncluttered interface, you'll find Vegas Movie Studio HD Platinum software a pleasure to use.

## System requirements

In order to use Vegas Movie Studio HD Platinum software, your computer must satisfy the following minimum specifications:

- Microsoft® Windows® XP SP3, Windows Vista® SP2, or Windows 7
- 1 GHz processor (multicore or multiprocessor CPU recommended for HD)
- 200 MB hard-disk space for program installation
- 1 GB RAM (2 GB recommended)
- OHCI-compatible i.LINK® connector\*/IEEE-1394DV card (for DV capture and print-to-tape)
- USB 2.0 connection (for importing from AVCHD or DVD camcorders)
- Windows-compatible sound card
- DVD-ROM drive (for installation from a DVD only)
- Supported CD-recordable drive (for CD burning only)
- Supported DVD- R/-RW/+R /+RW drive (for DVD burning only)
- Supported BD-R/-RE drive (for Blu-ray Disc™ burning only)
- Microsoft .NET Framework 3.0 (included on application disc)
- Apple® QuickTime® 7.1.6 or later

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**Note:** You must provide your registration information to Sony Creative Software Inc. to activate the software.

## Technical support

The Web site at <http://www.sonycreativesoftware.com/support/default.asp> has technical support, reference information, program updates, tips and tricks, user forums, and a knowledge base.

## Installing Vegas Movie Studio HD Platinum software

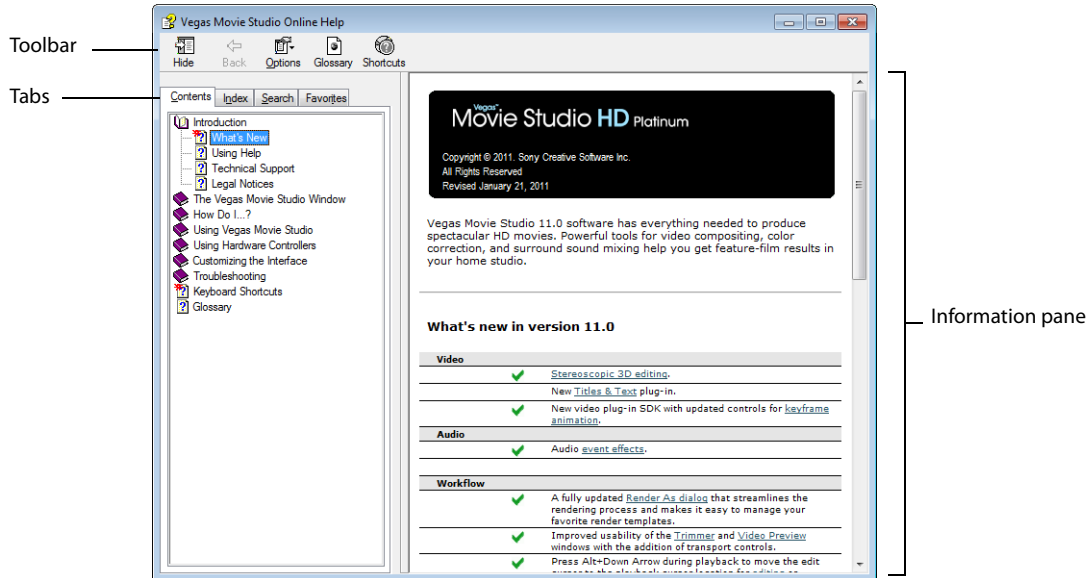
1. Insert the DVD-ROM. The setup screen is displayed if DVD-ROM AutoPlay is enabled.  
If DVD-ROM AutoPlay is not enabled, click the **Start** button and choose **Run**. In the Run dialog that appears, type the DVD-ROM drive's letter and add `:\setup.exe`. Click **OK** to start the installation.
2. Click **Install**. The installation process begins.
3. Follow the on-screen prompts to install the appropriate version of the software for your computer.

## Getting help

This Quick Start Manual is intended to help you learn the basic skills you need to create a Vegas Movie Studio HD Platinum project. If you need more assistance, we provide three varieties of help in the application.

### Online help

Choose **Contents and Index** from the **Help** menu or press F1. The online help window has four tabs that you can use to find the information you need.



### Show Me How tutorials

You can learn more about many of the features in Vegas Movie Studio HD Platinum by using the interactive Show Me How tutorials installed with the software.

You can access the Show Me How tutorials at any time from the **Help** menu by choosing **Show Me How**.

### Help on the Web

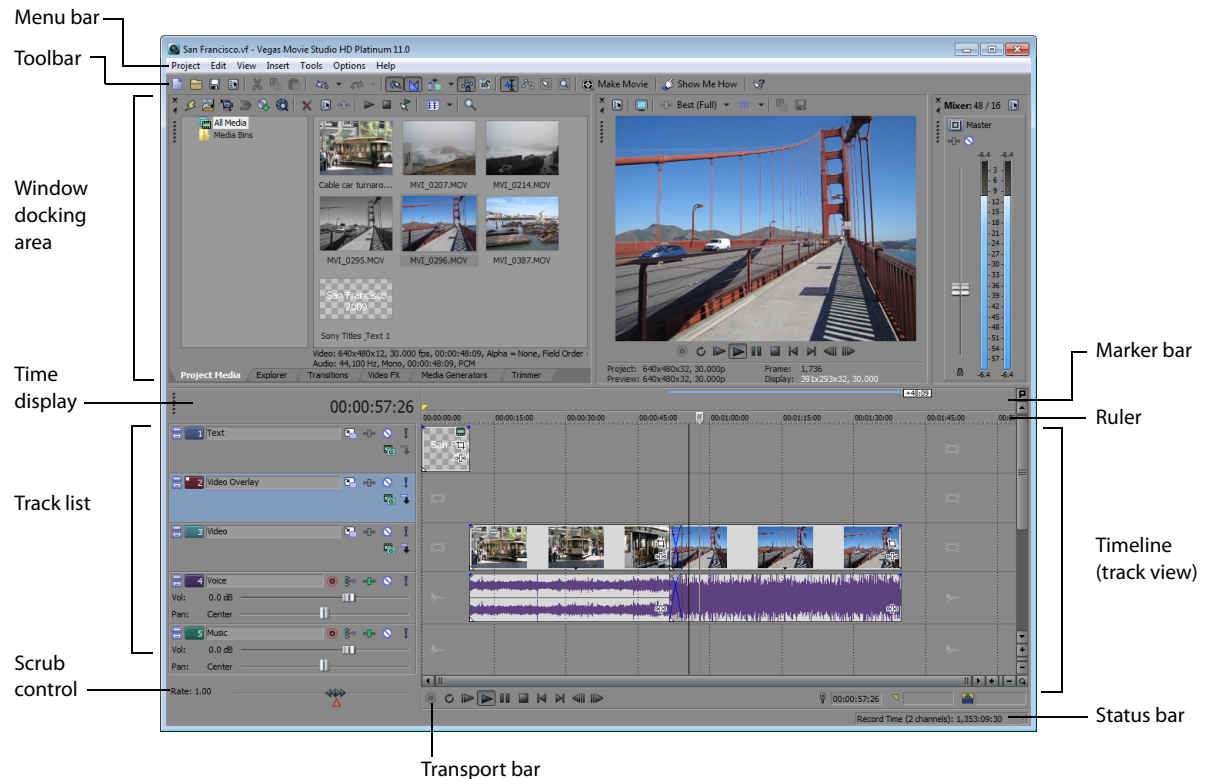
Additional help and information is available on the Sony Creative Software Web site. From the **Help** menu, choose **Sony on the Web** to view a listing of Web pages pertaining to Vegas Movie Studio HD Platinum software and Sony Creative Software Inc.

## Overview

The following sections provide a graphical tour of the Vegas Movie Studio HD Platinum workspace.






















### Main window

The main window appears when you open the software. The work area is divided into three primary areas: the track list, the timeline (track view), and the window docking area. You can resize the track list, timeline, and window docking area by dragging the dividers between them.



### Toolbar

The toolbar allows you to quickly access the most commonly used functions and features. From the **Options** menu, choose **Customize Toolbar** to specify which buttons are displayed.

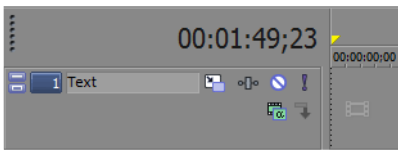
	Create new empty project		Enable automatic ripple editing
	Open existing project		Lock envelopes to events
	Save project		Ignore event grouping
	Open project properties		Normal edit tool
	Cut selected events or time range		Envelope edit tool
	Copy selected events or time range		Selection edit tool
	Paste items from clipboard into project		Zoom edit tool
	Undo		Make Movie Wizard
	Redo		Show Me How tutorials
	Enable snapping to grid lines		What's This Help
	Enable automatic crossfades		

## Time display

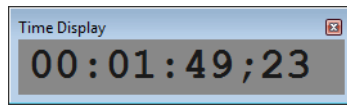
The Time Display window reflects the cursor's position on the timeline and the end point of a time selection. You can customize time display settings, including what time format the window displays and which colors are used in the display.

You can move the Time Display window from its docked position above the track list to float on the workspace or dock in the window docking area.

Docked position



Floating window

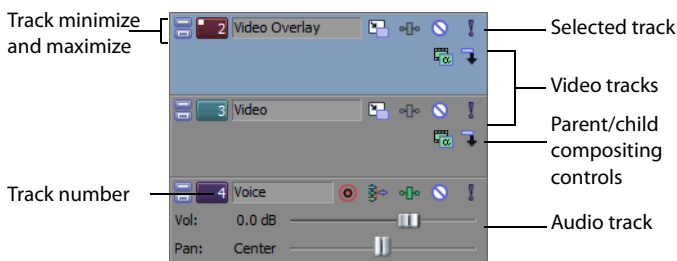


Docked in window docking area



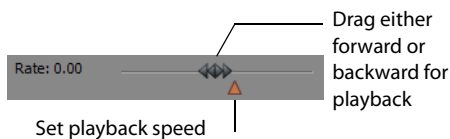
## Track list

This area identifies the track order in your project and contains controls used to determine track compositing and mixing. *For more information, see [Using the track list](#) on page 26.*



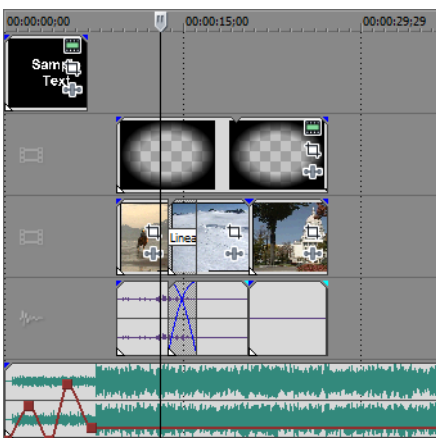
## Scrub control

The scrub control is used to play your project forward or backward for editing purposes. You can adjust playback speed by setting the speed control marker located beneath the scrub control. *For more information, see [Scrubbing](#) on page 28.*



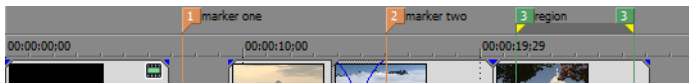
## Timeline

All arranging and editing is done in the timeline (track view). This area contains all of a project's events. *For more information, see [Using the timeline](#) on page 25.*



## Marker bar

The marker bar is the area where you can place, name, and position markers and regions along the project's timeline. These informational tags can serve as cues or reminders highlighting important events in your project. *For more information, see [Adding project markers and regions](#) on page 41.*



## Transport bar controls

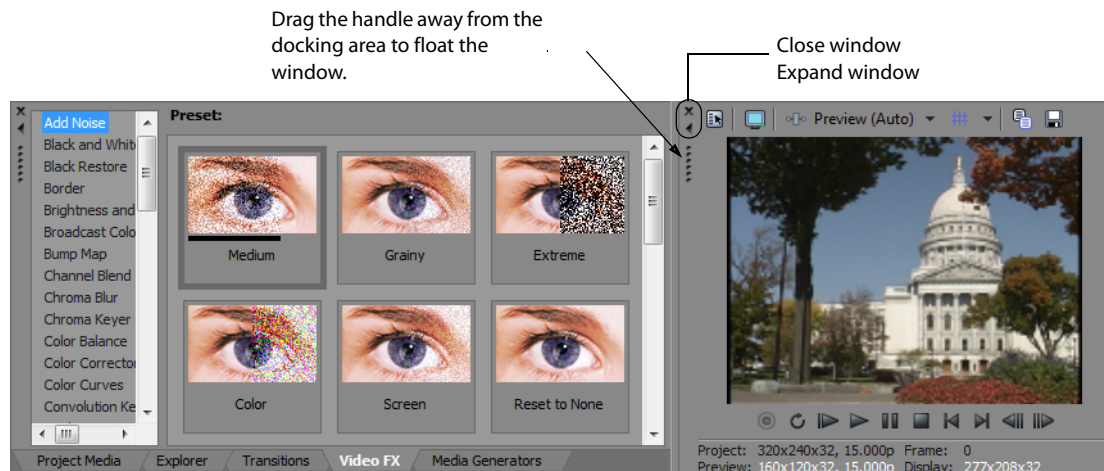
The transport bar contains the playback and cursor positioning buttons frequently used while working on and previewing your project.



**Tip:** Click and hold the **Previous Frame** and **Next Frame** buttons to move the cursor multiple frames.

## Window docking area and floating window docks

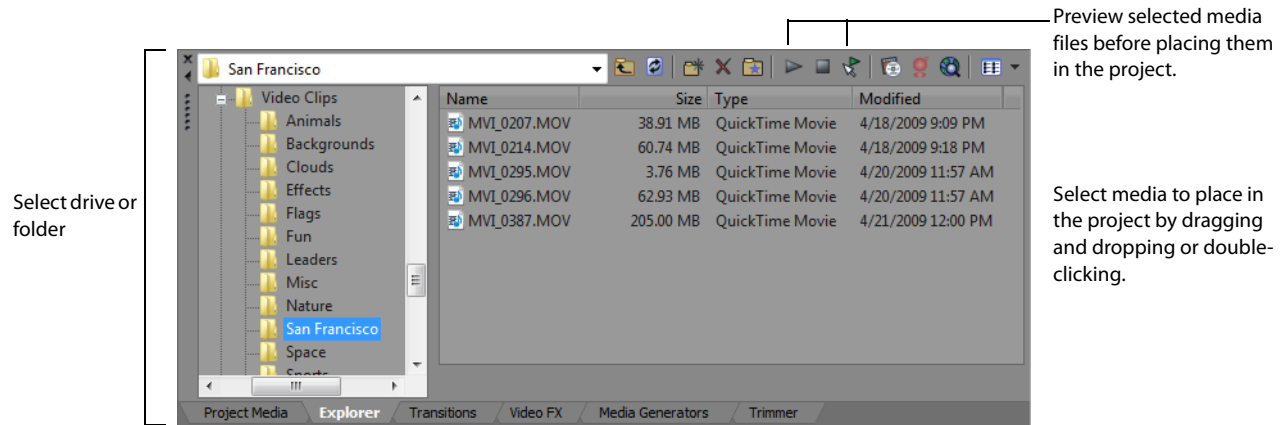
This area allows you to keep frequently used windows available but out of the way. Windows can be docked next to each other, in a stack in the window docking area, or in a separate floating docking window. When stacked, each window has a tab at the bottom with its name on it. Click the window's tab to bring it to the top.



- To dock a window, drag it to the docking area.
- To remove a window from the docking area and float it, drag the handle on the left side of a docked window.
- To prevent a window from docking when you drag it, hold the Ctrl key.
- To expand a docked window so it fills the docking area, click the **Maximize** button (☐). Click again to restore the window to its previous size.
- To remove a window from the docking area or a floating dock, click the **Close** button (✕).

## Explorer window - Alt+1

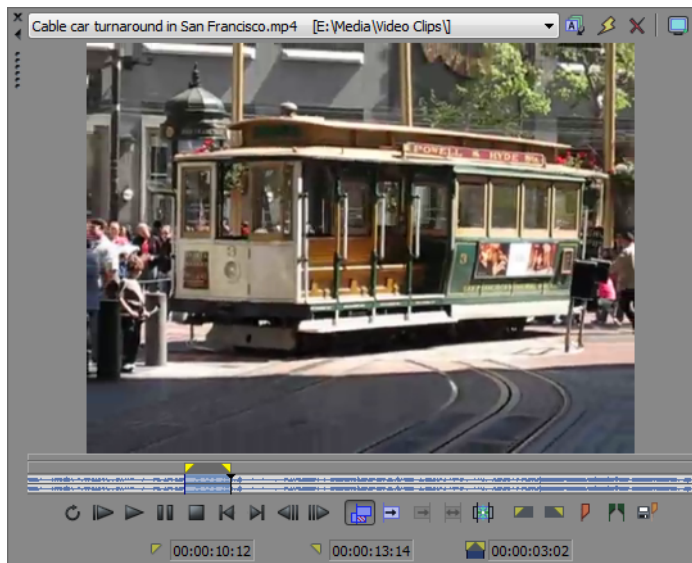
The Explorer window is similar to the Windows Explorer. Use the Explorer window to select media files to drag to the project timeline or add to the Project Media list. You can also use the Explorer to perform common file management tasks such as creating folders, renaming files and folders, deleting files and folders. Use the **Start Preview** (▶) and **Auto Preview** (◀▶) buttons to preview files before adding them to the project.



## Trimmer window - Alt+2

The Trimmer window is a good place to edit any media file. When a media file is placed in the Trimmer window, you can place portions of the file on separate tracks by dragging and dropping.

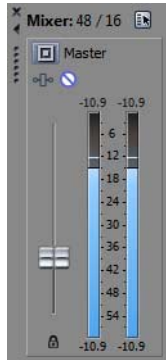
**Note:** Video from the Explorer and Project Media windows is previewed in the Trimmer window if it is visible. If the Trimmer window is not visible, the Video Preview window is used. If you want to preview in the Video Preview window by default, right-click the Trimmer window and deselect the **Show Video Monitor** command.





### Mixer window - Alt+3

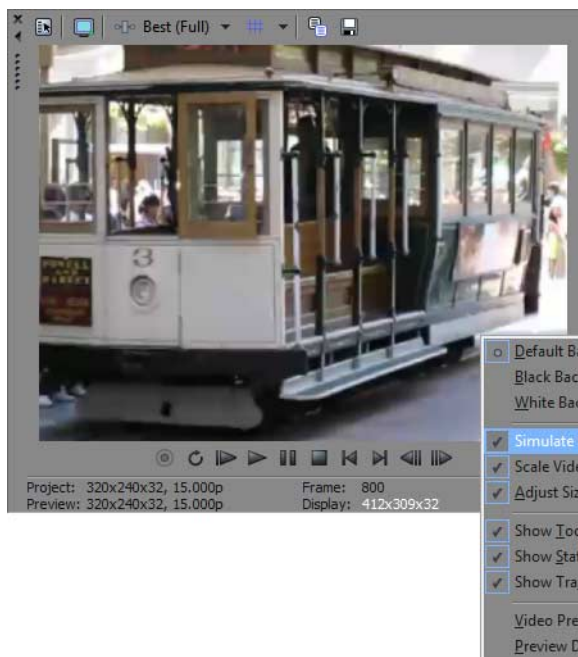
The Mixer window gives you access to your project's audio properties and output levels.



### Video Preview window - Alt+4

The Video Preview window displays a project's video during project editing and playback. *For more information, see [Playing your project](#) on page 27.*

**Note:** Video from the Explorer and Project Media windows is previewed in the Trimmer window if it is visible. If the Trimmer window is not visible, the Video Preview window is used. If you want to preview in the Video Preview window by default, right-click the Trimmer window and deselect the **Show Video Monitor** command.

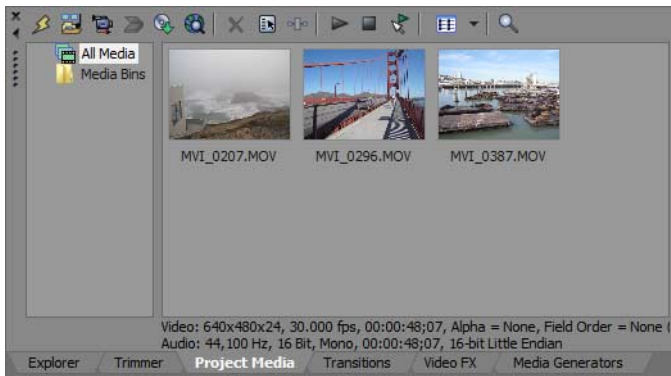


Video appears during project playback or as the cursor is moved during editing.

Right-click to change Video Preview settings.

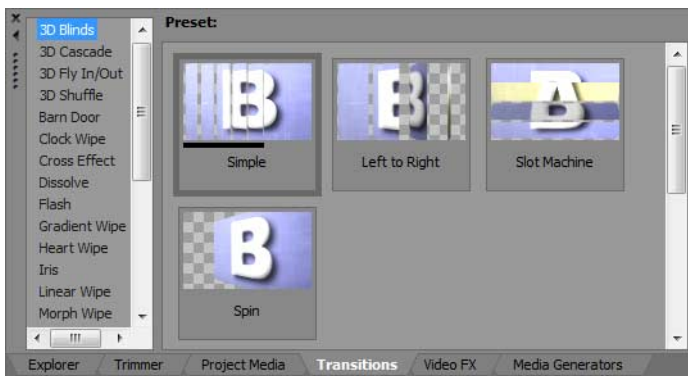
## Project Media window - Alt+5

The Project Media window helps you organize the media files you're using in a project. The information about these files is displayed in a highly flexible database that can be instantly sorted. You can also use the Project Media window to apply effects and plug-ins to media files and set the specific properties of these files. *For more information, see [Using the Project Media window on page 17](#).*



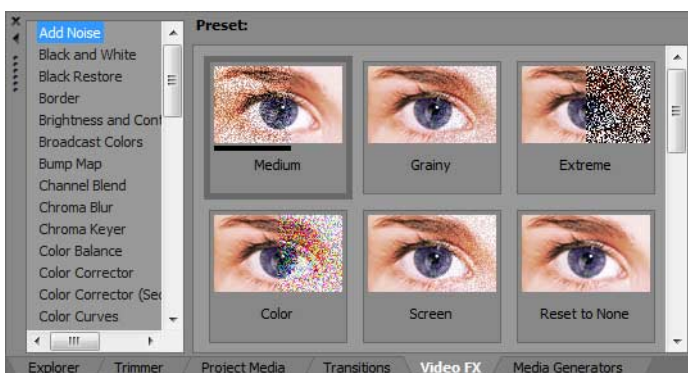
## Transitions window - Alt+7

The Transitions window contains all of the effects you can use to transition between video clips. The thumbnails display animated examples of each transition. You can drag transitions from this window to replace the crossfade between two video events or to replace the fade-in or fade-out region of a video event. *For more information, see [Adding transitions on page 45](#).*



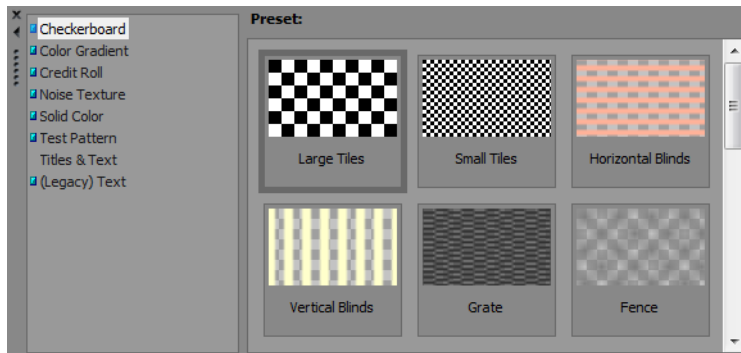
## Video FX window - Alt+8

The Video FX window contains the available video effects. The thumbnails display animated examples of each plug-in preset. You can drag plug-ins from this window to an event, track, or to the Video Preview window (video output effects). *For more information, see [Adding video effects on page 47](#).*



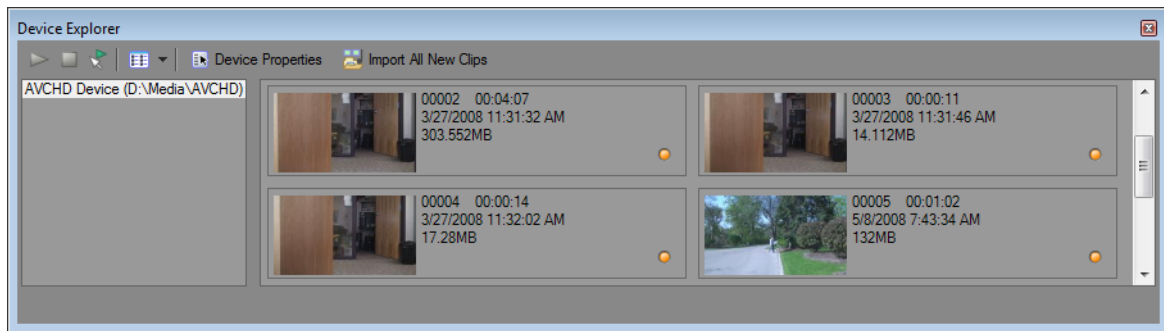
### Media Generators window - Alt+9

The Media Generators window contains the different media generators provided. Media generators make it easy to create events containing text, credit rolls, test patterns, color gradients, and solid color backgrounds. You can drag a media generator to the timeline to create a new generated media event. *For more information, see [Adding titles, text, and credits](#) on page 49.*



### Device Explorer window - Ctrl+Alt+7

The Device Explorer window allows you to browse and import clips from AVCHD camcorders. *For more information, see [Importing AVCHD video](#) on page 19.*





## Chapter 2 Getting Started

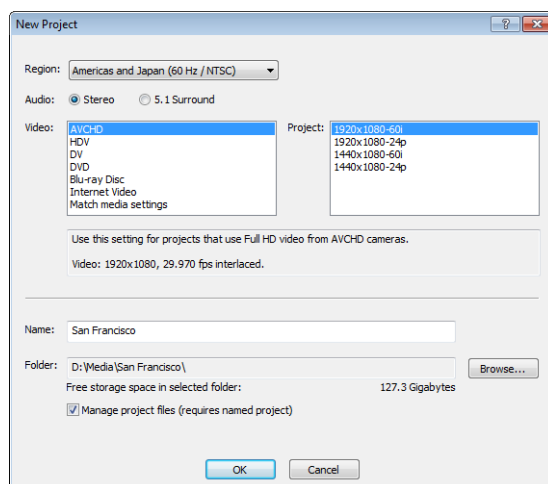
Vegas® Movie Studio HD Platinum software is a new way of creating multimedia productions. Whether you are an experienced multimedia author or a budding novice, the powerful features and capabilities of Vegas Movie Studio HD Platinum software are organized to increase your creativity and productivity. The following chapter summarizes the software's basic functions and operations.

### Creating projects

The process of creating a multimedia production can be a complicated undertaking, involving hundreds of shots, takes, voiceovers, music beds, audio tracks, and special effects. Organization is a critical issue in this process. In the software, organization is handled by a small project file (.vfp) that saves information about source file locations, edits, cuts, insertion points, transitions, and special effects. This project file is not a multimedia file, but is instead used to create (render) the final file when editing is finished.

Because Vegas Movie Studio HD Platinum software edits a project file and not the original source files, you can edit without worrying about corrupting your source files. This not only gives you a strong sense of security, but it also gives you the freedom to experiment.

1. From the **Project** menu, choose **New**. The New Project dialog is displayed.



**Tip:** You can quickly create a project by clicking the **New** button (📁) on the toolbar. The project will use the default settings, but you can use the **Project Properties** dialog to edit the settings later. From the **Project** menu, choose **Properties** to display the **Project Properties** dialog.

2. From the **Region** drop-down list, choose a video output standard.
3. Select a radio button to choose whether you want to use stereo or 5.1-channel audio in your project.  
*For more information about working with 5.1-channel surround projects, see [5.1 Surround](#) on page 63.*
4. In the **Video** box, click the type of video that you're using to create your project or the format you want to use to deliver your completed project.  
The **Project** box will display a list of options for the selected video type.  
If you want your project to match the properties of an existing media file, choose **Match media settings** and click the **Browse** button next to the **Choose media** box to select the file you want to use.
5. Set your project name and the location where you want to save it:
  - a. In the **Name** box, type a name to identify your project. If you don't specify a project name when creating a project, the file name you use to save your project will be used.
  - b. The **Folder** box displays the path to the folder where your project file will be saved. Click the **Browse** button if you want to choose a different folder.

- c. Select the **Manage project files** check box if you want your project media to be saved in the project folder.

When this check box is selected, the following files will be stored in subfolders below the project folder:

- Audio recordings.
- Files that you capture or import from a video camera, still camera or scanner, or audio CD.
- Snapshots that you copy from the Video Preview window.
- Files that you create using Render to New Track.

Existing media files on your computer will not be moved.

6. Click **OK** to start working with your project.

**Note:** If you want to modify project settings later, use the *Project Properties dialog*. From the **Project** menu, choose **Properties** to display the *Project Properties dialog*.

## Saving a project

When you save your work, it is saved in a project file. Project files are not rendered media files. To save a project, choose **Save** from the **Project** menu, or press Ctrl+S.

## Renaming a project (using Save As)

After you have been working with your project, you can use the **Save As** command in the **Project** menu to save a copy of a project with a new name. This is useful for backing up different versions of a project.

## Getting media files

You can add media from a variety of sources to your project. You can add audio and video files, record audio into a track, capture video from a video camera, or extract music from your own CD. You can also create media such as text overlays and credit rolls using the software.

For more information about recording audio, see [Recording audio](#) on page 59.

For more information about creating text and credit rolls, see [Adding titles, text, and credits](#) on page 49.

## Previewing a media file

You can preview files before placing them in your project. The Explorer window has a mini-transport bar with **Play** (▶), **Stop** (■), and **Auto Preview** (▶) buttons. When you preview a file, its stream is sent to the Mixer window's preview bus (for audio files) or to the Video Preview window (for video files).

**Note:** Video from the Explorer and Project Media windows is previewed in the Trimmer window if it is visible. If the Trimmer window is not visible, the Video Preview window is used. If you want to preview in the Video Preview window by default, right-click the Trimmer window and deselect the **Show Video Monitor** command.

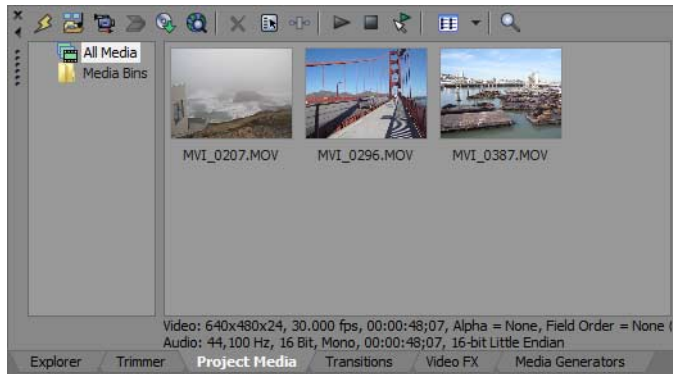
**Tip:** You can use the same mini-transport bar buttons in the Project Media window to preview files in the Project Media list.

1. Select a file in the Explorer window.
2. Click the **Play** button (▶) to listen to the file.
3. Click the **Stop** button (■) or select a different file to stop previewing the file.


**Tip:** To automatically preview selected files, click the **Auto Preview** button (▶) on the Explorer window's transport bar.

## Using the Project Media window

Media files, both video and audio, tend to be the largest files on your hard drive. It is therefore not always easy to move them around and impractical to store multiple copies of these files. You can add media files to the Project Media list to organize them before any editing begins. Once you begin working on a project, all files you add to the timeline are automatically included in the Project Media list. From the **View** menu, choose **Project Media** to open this window if it is not already visible.



## Using Project Media views

You can control the information that is displayed in the Project Media window by clicking the **Views** button (  ) and selecting a view.

For more information about views, see the Vegas Movie Studio HD Platinum online help. To access help, choose **Contents and Index** from the **Help** menu.

## Adding media to the Project Media list

You can add media to the Project Media list without adding it to the timeline by importing the file. *For more information, see [Importing media](#) on page 17.*

### Adding media to the Project Media list from the Explorer window

1. Navigate to and select a file to add to the Project Media list. You can use Ctrl or Shift to select multiple media files.
2. Right-click the file and choose **Add to Project Media list** from the shortcut menu. The selected file is added to the Project Media list.

### Replacing media in the Project Media list

You can replace a file in the Project Media list with a different file. When changing the media file that an event contains, every occurrence of the event on the timeline is updated with the new media file contents.

1. Right-click a file in the Project Media window.
2. Choose **Replace** from the shortcut menu.
3. In the Replace Media File dialog, browse for and select the file with which you want to replace the current file.
4. Click **Open**. The selected file replaces the old file in the Project Media list, and any events in the timeline containing the old file are updated to contain the new media file.

## Importing media

Importing media allows you to add media to the Project Media list for use in your project without adding it to the timeline.

1. From the **Project** menu, choose **Import Media**. The Import Media dialog is displayed.
2. Navigate to and select a media file to add to the Project Media list. You can use Ctrl or Shift to select multiple files.

**Tip:** To limit the files displayed in the dialog, choose a file type from the **Files of type** drop-down list.

3. Click **Open**. The media file is added to the Project Media list.

## Importing video from a DVD camcorder

From the **Project** menu, choose **Import DVD Camcorder Disc** to import video from a finalized Sony DVD Handycam® camcorder disc.

### Notes:

- Before importing video, you'll need to finalize the disc. For information about finalizing a disc, please refer to your camcorder's documentation.
- 5.1-channel audio will be downmixed to stereo when importing into a stereo project.

1. Place the DVD you want to import in your computer's DVD drive or connect your camcorder to your computer via USB.


**Important:** The Sony Handycam USB driver that is included with DVD-based camcorders can prevent Vegas Movie Studio HD Platinum from recognizing a USB-connected camera. If you use the Add/Remove Programs Control Panel to uninstall the "Sony DVD Handycam USB driver" component, Vegas Movie Studio HD Platinum will be able to connect to the camera and import video.

2. From the **Project** menu, choose **Import DVD Camcorder Disc**. The Import DVD Camcorder Disc dialog is displayed.
3. From the **Source** drop-down list, choose the disc that contains the video you want to import.
4. The **Destination** box displays the folder where the video will be imported. The folder name is based on the disc's volume label. Click the **Browse** button if you want to choose a different folder.
5. Click the **OK** button to start importing video.  
After importing is complete, the video from the disc is added to the Project Media window. Each chapter is imported as a separate file.  
You can then add the imported video to your project just like any other media file.  
When you add video to the timeline that contains 5.1 surround audio, you'll be prompted to switch your project to 5.1 surround mode, and events are automatically created on the Front, Center, LFE, and Rear tracks.

## Capturing DV video


You can use the Video Capture application installed with Vegas Movie Studio HD Platinum software to capture video clips from your DV video camera and add them to the Project Media window. You can also specify a different third-party capture application for DV video capture.

**Tip:** To specify the DV video capture application you want to use with Vegas Movie Studio HD Platinum software, select the **Use external video capture application** check box on the **Video** tab of the Preferences window and browse for the program's executable (.exe) file.

1. If you have not already done so, connect your video camera to your video capture card using the cable provided with the card.
2. From the **Project** menu, choose **Capture Video** or click the **Capture Video** button  in the Project Media window. The Capture Video dialog appears.
3. Select the **DV** radio button and click **OK**. The Video Capture application starts.
4. Capture your video. For information about capturing video, see the Vegas Movie Studio HD Platinum online help. To access help, choose **Contents and Index** from the **Help** menu.  
If any captured clips go offline, you can recapture the clips using your video capture application. Right-click an offline file in the Project Media window and choose **Recapture** from the shortcut menu.

## Capturing HDV video

You can use the internal Vegas Movie Studio HD Platinum video capture tool to capture video clips from your HDV video camera and add them to the Project Media window.

1. If you have not already done so, connect your video camera to your video capture card using the cable provided with the card.
2. From the **Project** menu, choose **Capture Video** or click the **Capture Video** button  in the Project Media window. The Capture Video dialog appears.
3. Select the **HDV** radio button and click **OK**. The Capture window appears.



4. Capture your video. For information about capturing video, see the *Vegas Movie Studio HD Platinum online help*. To access help, choose **Contents and Index** from the **Help** menu.

When you're finished capturing, your clip is saved to the folder specified in the **Capture folder** box on the Clip Edit tab. If you selected the **Add new clips to project media** check box in Capture Preferences, the clip is also added to the Project Media window, from which you can add it to the timeline.

If any captured clips go offline, you can recapture the clips using your video capture application. Right-click an offline file in the Project Media window and choose **Recapture** from the shortcut menu.

## Importing AVCHD video

You can use the Device Explorer window to capture video clips from your AVCHD video camera and add them to the Project Media window.

1. From the **View** menu, choose **Device Explorer** to display the Device Explorer window.
2. Connect your camera to a USB 2.0 port on your computer. The camera is displayed on the left side of the Device Explorer window.
3. Select your camera on the left side of the Device Explorer window. The camera's clips are displayed on the right side of the window, and clips that have not yet been imported are indicated with a new clip icon (📷).
4. Click the **Import** button (📷) to import clips to the Project Media window:
  - If clips are selected in the Device Explorer window, only the selected clips are imported. You can hold Ctrl while clicking to select multiple clips.
  - If no clips are selected in the Device Explorer window, all new clips are imported.
5. You can then use the Project Media window to organize your clips and add the imported video to your project just like any other media file.

**Note:** Clips are imported to the folders listed below by default. Click the **Device Properties** button (🔧) to change the capture folder for your camera.

- Windows Vista and Windows 7: C:\Users\\Documents\Imported Media\
- Windows XP: C:\Documents and Settings\\My Documents\Imported Media\

## Getting images

You can bring images directly into the software from your scanner or digital camera. The images are added to the Project Media window as JPEG image files.

**Note:** In order to get pictures from a scanner or digital camera, you may need to install a driver for your device. Refer to the software that was included with your device or the manufacturer's Web site.

1. Make sure your scanner or digital camera is on and connected to your computer.
2. In the Project Media window, click the **Get Photo** button (📷). The software is started for the device.
3. Use the device software to get an image and send it to Vegas Movie Studio HD Platinum software. Once the image has been sent, the Scanned Files dialog appears.
  - Click **Rename** to give the new image a more meaningful name.
  - Click **Delete** to cancel adding the image.
4. Click **Done**. The new JPEG file is added to the Project Media list.

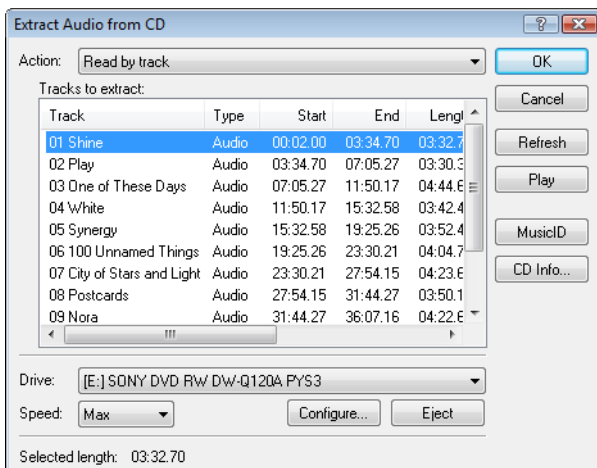
**Tip:** If any of the subjects in your captured images have red eyes, you can use the red-eye removal feature to correct the problem. For more information on this feature, see the online help.

## Extracting audio from a CD

You can extract tracks from a CD and add them to the Project Media window as .wav files.

**Important:** Vegas Movie Studio HD Platinum software is not intended for, and should not be used for, illegal or infringing purposes, such as the illegal copying or sharing of copyrighted materials. Using Vegas Movie Studio HD Platinum software for such purposes is, among other things, against United States and international copyright laws and contrary to the terms and conditions of the End User License Agreement. Such activity may be punishable by law and may also subject you to the breach remedies set forth in the End User License Agreement.

1. Insert the audio CD into your CD/DVD drive.
2. In the Project Media window, click the **Extract Audio from CD** button (🌐). The Extract Audio from CD dialog appears.



3. From the **Action** drop-down list, choose the method you want to use for extracting the CD audio:
  - **Read by track** - Use this option to choose the tracks you want to extract from the CD.
  - **Read entire disc** - Use this option to automatically extract all tracks on the disc. The entire CD is extracted into one new file in the Project Media list.
  - **Read by range** - Use this option to extract audio from a specified range of time.
4. If you chose either the **Read by track** or **Read by range** option, specify the track(s) or range to extract:
  - For **Read by track**, select the tracks you want to extract in the Tracks to read list. Use the Ctrl or Shift keys to select more than one track. Each track is extracted into a separate file in the Project Media list.
  - For **Read by range**, type a time in the **Range start** field and either the **Range end** or **Range length** fields. The range of audio is extracted into one new file in the Project Media list.

**Note:** If you want to extract multiple tracks to a single file, choose **Read by track** from the **Action** drop-down list to select your tracks, and then choose **Read by range** from the **Action** drop-down list. The appropriate time range for the tracks you selected will automatically be inserted and the time range will be extracted to a single file.

5. From the **Drive** drop-down list, choose the drive containing the audio CD from which you want to extract.
6. From the **Speed** drop-down list, choose the speed at which you want to extract the audio. If you experience any problems extracting audio, you can try decreasing the selected speed, or you can click **Configure** to adjust the **Audio extract optimization** setting.

**Note:** To eject the CD at any time prior to beginning the extraction process, click the **Eject** button.

7. Click **OK**. The Save As dialog appears.
8. Select a name and location for the new .wav file.
9. Click **Save** to begin extracting the audio.

The track is extracted and a progress meter is displayed to indicate the percent complete. When extraction is complete, the new .wav file appears in the Project Media window.

## Sorting media with bins

The detailed view of the Project Media window helps you sort your media files using their attributes, but for more control, you can create bins. Bins are folders within projects that you can use to organize your media files.

Media bins are virtual folders that are saved with your project. They do not affect the way media is saved on your computer.

## Creating bins

Right-click the parent bin where you want to create a new bin and choose **Create New Bin** from the shortcut menu.

## Adding media to a bin

1. Browse your existing bins to find the media file you want to move. The All Media Folder contains all media files in your project.
2. Drag a file from the right-hand pane to a bin.

For more information about media bins, see the online help (from the Vegas Movie Studio HD Platinum **Help** menu, choose **Contents and Index**).

## Adding media to the timeline

Media files can be added to your project from the Explorer or Project Media window by double-clicking them or by dragging them. Either method places the media file in an event in its entirety in the timeline.

## Dragging a media file to the timeline

You can create a new track by dragging a media file to a blank area on the timeline and dropping it in place. Tracks can contain multiple events, so you can place different events next to each other on a track.

**Note:** *Video and audio events cannot be placed on the same track.*

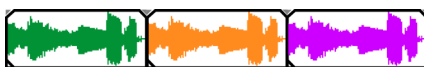
1. Locate a media file in the Explorer or Project Media window.
2. Drag the media file to the timeline.

An event for the media file appears where you released the mouse.

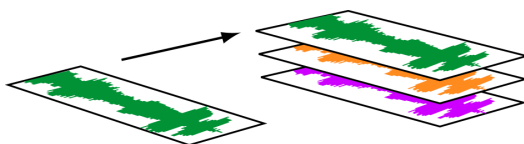
## Dragging multiple media files to the timeline

1. Select multiple media files in the Explorer or Project Media window. Select a range of adjacent media files by holding Shift and clicking the first and last files in the range or select files that are not adjacent by pressing Ctrl and clicking individual files.
2. Right-click and drag the files to the timeline.
3. When you release the mouse, a shortcut menu appears. Select a placement option from the menu.

- **Add Across Time**



- **Add As Takes**



You will see one event on the track. The other events are listed as takes “beneath” the topmost event.

- **Video Only** and **Audio Only** allow you to isolate either the video or audio, and add that stream from a multimedia file either across time or as takes.

**Tip:** *A left-click drag-and-drop automatically inserts files across time. However, you can cycle through placement modes by right-clicking (without releasing the left mouse button) while performing the drag-and-drop operation.*

## Double-clicking a media file

This method places the event at the cursor's position in the selected track. If the selected track is a video track, and you double-click an audio event (or vice versa), a new track is created for the event. Once an event is placed, you can move it from one track to another or change its position on the timeline.

## Inserting a video file with associated audio

Media files with video frequently include associated audio. When you insert a media file into the timeline, the associated audio is automatically inserted into a separate audio track below the video track. The two associated events are grouped together and behave as a single unit when moved or otherwise edited. You can ungroup the events to move them independently.



Two events that contain video (top) and audio (bottom) streams from a single multimedia video file; each event is inserted on a separate track.

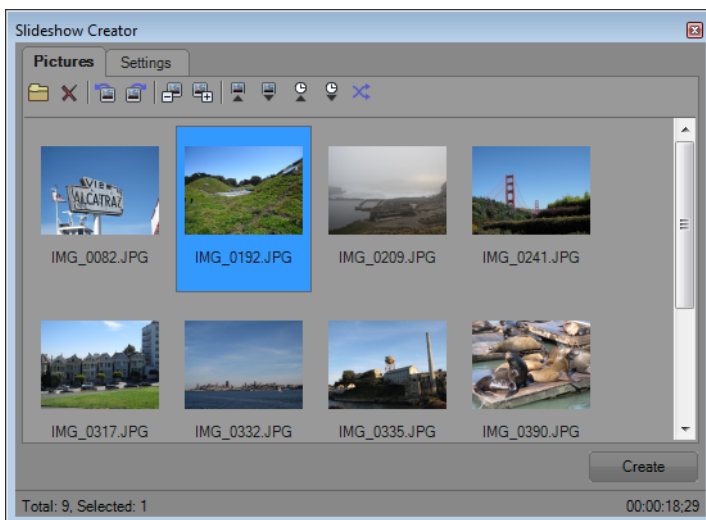
## Automatically crossfading inserted events

When inserting multiple events across time, the events (both video and audio) can be set to automatically crossfade. Two options must be enabled in order to create crossfades automatically when adding multiple events. First, verify that a check mark appears next to **Automatic Crossfades** in the **Options** menu. Second, from the **Options** menu, choose **Preferences**, and on the **Editing** tab, select **Automatically overlap multiple selected media when added**. For more information, see [Crossfading events](#) on page 39.





## Creating slideshows

You can use the Slideshow Creator to add a photo slideshow to the selected video track.

1. Click in the timeline to select a track and position the cursor.  
The slideshow will be added to the selected track beginning at the cursor position. You can adjust the start time if needed.
2. From the **Insert** menu, choose **Slideshow**. The Slideshow Creator is displayed.  
The Pictures tab allows you to add and arrange pictures for your slideshow, and the Settings tab allows you to control the slideshow's start time, duration, and transitions between slides.








3. Add slides to your slideshow.
  - a. Click the **Add Pictures** button (📁). A dialog is displayed for you to browse to a folder and select pictures. Hold Ctrl or Shift while clicking to select multiple pictures.
  - b. Click the **Open** button to add the selected pictures to your slideshow.
  - c. Repeat steps 3a and 3b as needed to add pictures from other folders.  
If you need to remove a photo, select it and click the **Delete Selected** button (✖).

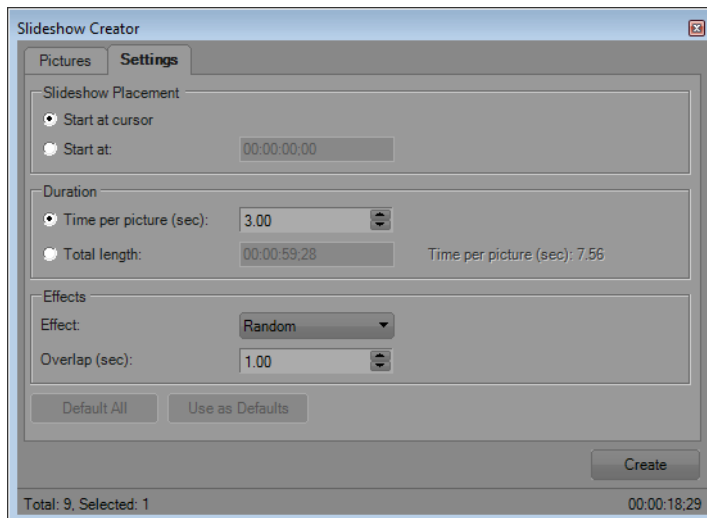
4. Use the Pictures tab to arrange your slides as needed:
  - a. If you need to rotate pictures, you can select a photo and click the **Rotate Counterclockwise**  or **Rotate Clockwise**  button. You can also rotate multiple selected photos at once.
  - b. If you want to change the order of your photos, you can use the **Move Selected -1**, **Move Selected +1**, or **Sort By** buttons.
    - Click **Move Selected -1**  to shift the selected photo earlier in the slideshow.
    - Click **Move Selected +1**  to shift the selected photo later in the slideshow.

**Tip:** You can also drag photos in the Slideshow Creator window to rearrange them.

- Click a toolbar button to sort the photos. You can sort alphabetically by file name, by date, or shuffle the photos in a random order.

Button	Description
	<b>Sort A to Z</b> Sort photos alphabetically by file name.
	<b>Sort Z to A</b> Sort photos in reverse alphabetical order by file name.
	<b>Sort New to Old</b> Sort photos from newest to oldest.
	<b>Sort Old to New</b> Sort photos from oldest to newest.
	<b>Shuffle</b> Shuffle photos in a random order.

5. Use the Settings tab to adjust the slideshow's start time, duration, and transitions between slides:



- a. The Slideshow Placement controls determine where your slideshow will begin on the selected track.
    - Select the **Start at cursor** radio button if you want the slideshow to begin at the cursor position you set in step 1.
    - Select the **Start at** radio button and type a time in the edit box if you want to adjust the start time.
  - b. The Duration controls determine the length of time each slide is displayed or the overall length of the slideshow.
    - Select the **Time per picture** radio button and type a time (in seconds) in the edit box to set the length of time each slide will be displayed.
    - Select the **Total length** radio button and type a time in the edit box to set the overall length of the slideshow. The duration will be divided equally among slides.
  - c. The Effects controls determine how the slideshow changes between slides.
 

Choose a setting from the **Effect** drop-down list to choose a transition, and type a value in the **Overlap** box to indicate how long slides will overlap. Type **0** in the **Overlap** box to change between slides with no transitions. This sort of abrupt change is called a cut.
6. Click the **Create** button.

**Tip:** You can preview your slideshow in the timeline. If you want to change the slideshow's settings, click to position the cursor at the beginning of the slideshow and use **Undo** to remove the events from the timeline. You can then return to step 5 to change the slideshow's settings.

## Working with events

Events are the most basic objects in a project. An event is something that happens in time, has a specific duration, and can be video or audio.

### Understanding files and events

The objects you work with are referred to as media files and events.

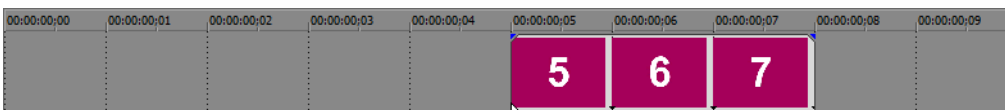
- **Files** are objects that are stored on your hard disk. In Vegas Movie Studio HD Platinum software, you will work with media files, such as music and video files. These files are neither operated on nor changed. You can access files from the Vegas Movie Studio HD Platinum Explorer window.
- **Events** are periods of time on the timeline that act as windows into media files, either whole or in part. When you drag a media file onto the timeline, you automatically create an event that contains that file's contents. An event can contain video, audio, still images, or generated media. The event window may contain only a small portion of a much larger media file. A single media file can be used repeatedly to create any number of different events, since each event can be trimmed independently.



The original media file.



An event trimmed from the original media file.



The event as it appears in Vegas Movie Studio HD Platinum software.

**Audio events** are created from audio files on your computer (for example, WAV or MP3) or can be a part of a video file (for example, AVI). You can change many characteristics of an audio event, such as speed, volume, and equalization. Audio events can be mixed with other audio events.

**Video events** are created from video files captured to your computer (typically AVI, MOV, or QT) or images (BMP, JPEG, PNG, or TGA). You can change many characteristics of a video event, such as speed, color, and size. Video events can overlay other video events and are visual elements that appear on top of a background video, image, or color.

### Moving events along the timeline

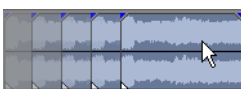
You can move events along the timeline individually or as a group. Events may overlap each other or be placed on top of each other. You can crossfade overlapping events automatically or with envelopes.

#### Moving an event

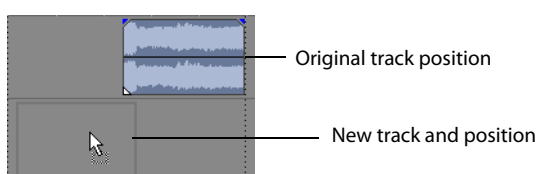
You can move an event along the timeline within a track or move it to a different track.

1. Drag the event along the timeline.

If you move the event along the original track's timeline, the event's appearance (color) remains the same.



However, you can move the event to a different track. When you do, the event appears as a simple outline and you will see its original track and position on the timeline. Once you release the mouse, the event assumes the new timeline position and track color.



2. Release the mouse to place the event.

### Moving multiple events

You can move multiple events along the timeline within a track or move them to a different track. Selected events do not need to be within the same track. Use the Ctrl key, the Shift key, or the **Selection Edit Tool** (⌘) to select multiple events and drag them. To select all events on the track after a given event, right-click the event and choose **Select Events to End**. For more information, see [Selecting multiple events](#) on page 30.

### Moving events by small increments

To move an event more precisely, click the event and press 4 or 6 on the numeric keypad to nudge it by small increments. The amount of movement caused by each nudge is determined by how far the timeline is zoomed in or out. You can also click the event and press 1 or 3 on the numeric keypad to nudge the event by frames.

## Working with tracks

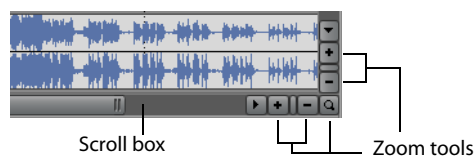
A project consists of multiple audio and video tracks. All events appear in the **timeline** (track view). The **track list** provides information about the track and contains controls that affect all events in the track.

### Using the timeline

Numerous options are provided for viewing and navigating in timeline.

### Scrolling and zooming

There are several ways to scroll and zoom in the timeline.



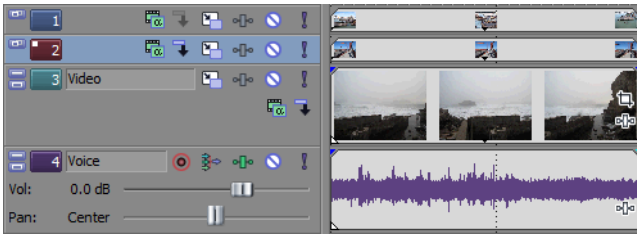
- Click the scroll bar arrows or drag the scroll bars to move up and down the tracks or to move forward and back along the timeline.
- Click the **Zoom** buttons (⏏) to reveal more or less of the timeline.
- Drag the edge of the scroll box, found on the scroll bar, to zoom.
- Press the Up Arrow and Down Arrow keys to zoom in and out along the timeline.
- Click the **Zoom Edit Tool** (⏏) button or, from the **Edit** menu, choose **Editing Tool** and then choose **Zoom**. In this mode, drag on the timeline to draw a rectangle that defines the zoom region.

**Tip:** You can also access the Zoom Edit Tool from the lower-right corner of the timeline (⏏).

Zooming directly controls the accuracy of your editing. Each video event has thumbnail representations of the frames within the event. Depending on how far you have zoomed in on a video event, a thumbnail can represent the entire event or a single frame in the event.

## Changing track height

You can change the height of individual tracks by dragging their borders in the track list. In the example below, the main video track is fairly large to show the details of the scene while the two tracks above it, which are overlays, have been resized to a shorter height.



## Using the track list

This section describes the different controls in the track header of each track. Some controls are specific to either video or audio tracks.

### Video track header






Button or Control	Name	Description
	Minimize track height	Minimizes track height.
	Maximize track height	Maximizes track height.
	Track number and color	Track numbers and colors help organize a multitrack project.
	Track name (scribble strip)	Allows you name a track. To name a track, double-click the scribble strip and type the track's name.
	Track motion	Track motion is used to move a video track across a background. Picture-in-picture effects and scrolling title sequences are two simple cases where this tool is important.
	Track FX	Adds track effects plug-ins.
	Mute	Temporarily mutes playback of the track so that you can focus on other tracks.
	Solo	Isolates a track for playback.
	Compositing Mode	Determines how the transparency in a video track is generated.
	Make Compositing Child	Creates a parent/child compositing relationship with the track above.

### Audio track header



Button or Control	Name	Description
	Minimize track height	Minimizes track height.
	Maximize track height	Maximizes track height.
	Track number and color	Track numbers and colors help organize a multitrack project.
	Track name (scribble strip)	Allows you name a track. To name a track, double-click the scribble strip and type the track's name.
	Arm for record	Prepares a track for recording. You may record directly into audio tracks. A track is ready when you see the recording meter appear on it.
	Record Input	Allows you to choose a recording device.
	Track FX	Adds track effects plug-ins.
	Mute	Temporarily mutes playback of the track so that you can focus on other tracks.



Button or Control	Name	Description
	Solo	Isolates a track for playback by muting the other tracks.
	Volume fader	Controls the audio track volume relative to the other tracks. Drag the fader left or right to adjust the volume.
	Pan slider	Functions as a trim control that adjusts the overall panning of the track.

## Playing back and previewing



You can play back your project in two ways: directly from the timeline from within the software or by mixing the entire project to a preview file.

### Playing your project

The transport bar allows you to play back your entire project or portions of your project based on a time selection or the current cursor position. *For more information, see [Transport bar controls](#) on page 9.*


If your project includes video, make sure the Video Preview window is displayed for playback: from the **View** menu, choose **Video Preview** or press Alt+6.

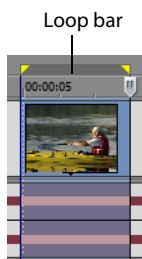
### Playing an entire project




1. Click the **Play From Start** button  to begin playback at the beginning of the project.
2. Click the **Stop** button  to stop playback.

Most of the time, you will only want to preview a small portion of the project to perfect a section. You can do this by creating a time selection.

### Playing a time selection

1. Place the mouse pointer above the ruler on the marker bar. The mouse pointer changes to include a left/right arrow cursor .
2. Drag to select the time region. To increase or decrease the time selection, drag its start and end points. The time selection is highlighted and the loop bar appears above the ruler on the timeline.



3. Click the **Play** button  to begin playback. Only the non-muted tracks and events within the time selection play back.
4. Click the **Loop Playback** button  to continually play back the events within the time selection. Click the button again to turn this feature off.
5. Click the **Stop** button  to stop playback.

By looping the playback, you can repeatedly watch the same section of the project over and over as you make changes to filters and effects in real time. You can define selection areas automatically, depending on what you would like to preview. *For more information, see [Selecting a time range](#) on page 31.*

## Scrubbing

Scrubbing is a type of timeline playback that gives you precise control over the speed and direction of playback. Both linear and logarithmic scale scrubbing are allowed.

The use of multimedia controllers is supported for scrubbing. For more information on using the software with multimedia controllers, please see the online help. To access help, choose **Contents and Index** from the **Help** menu.

**Tip:** Choose a setting from the **JKL/shuttle speed** drop-down list on the **Editing** tab of the **Preferences** dialog to control the scrub speed and range when using the keyboard or multimedia controllers.

### Scrubbing with the playhead

The playhead (⏮) above the timeline can be dragged back and forth to shuttle forward or backward from the cursor position to locate an edit point.



**Tip:** Set in and out points while dragging the playhead by pressing the **I** and **O** keys.

**Note:** The playhead is also available in the **Trimmer** window.

### Previewing to media player

A project can be previewed in a media player by mixing and rendering the project according to the project's properties and playing back using the media player associated with the file type you select.

1. From the **Tools** menu, choose **Preview in Player**. The **Preview** dialog appears.
2. Select the file type from the drop-down list.
3. Click **OK** to begin the mixing and rendering process. A progress dialog appears indicating the percent complete of the new file. When mixing is completed, the associated media player opens and begins playback.

## Chapter 3 Basic Editing Techniques

Vegas® Movie Studio HD Platinum projects are multitrack compilations of events that occur over time. The events in your project are references (pointers) to source media files. Vegas Movie Studio HD Platinum software is a nondestructive editor, so editing events in your project does not alter the source media files in any way.

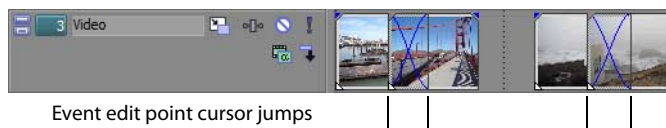
### Getting around

When editing and playing back the project, the cursor identifies where you are along the project's timeline.

#### Moving the cursor

Use the following keyboard commands to move the cursor in the timeline.

Description	Keys	Description	Keys
Go to beginning of project	Ctrl+Home or W	Move left/right to marker(s)	Ctrl+Left/Right Arrow
Go to end of project	Ctrl+End or E	Move to marker #	0-9 keys (not numeric keypad)
Go to beginning of selection or view (if no selection)	Home	Move left/right to event edit points including fade edges (see figure below)	Ctrl+Alt+Left/Right Arrow
Go to end of selection or view (if no selection)	End	Nudge cursor on timeline	Left or Right Arrow
Move right by grid marks	Page Down	Move left/right one frame	Alt+Left/Right Arrow
Move left by grid marks	Page Up	Move left/right one frame	Ctrl+Alt+Shift+Mouse wheel
Go to	Ctrl+G	Center in view	\



#### Changing focus

Focus is used to describe which objects have the attention of a program. For example, when you click a file in the Project Media list, the Project Media window has focus. To instantly switch the program's focus to the timeline (track view), press Alt+0 or, from the **View** menu, choose **Focus to Timeline**.

In Vegas Movie Studio HD Platinum software, it matters which track has focus when you perform a task. For example, when you double-click a media file in the Explorer, it is inserted into the track that has focus. You can click anywhere in the track header to make it the focus track. A blinking white square next to the track number and shading in the track list indicates a track has focus.

## Making selections

You can select one or more events, a time range, or events and a time range. All selection options can apply to a single track or to multiple tracks.

To select an event, click it.

### Selecting multiple events

You can select multiple events in your project using several methods.

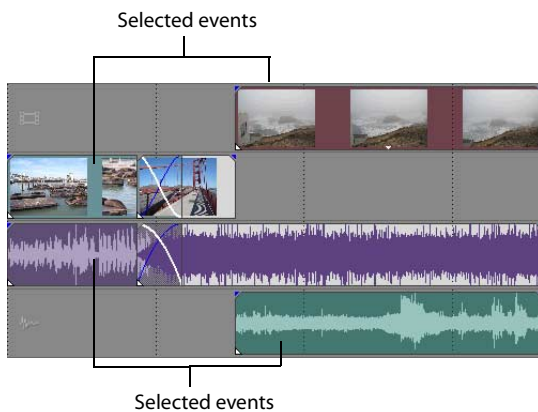
**Tip:** Once you have selected multiple events, you can group them together. For more information, see the online help. From the **Help** menu, choose **Contents and Index**.

**Note:** You can select multiple video events, multiple audio events, or a combination of both video and audio events. However, you can only use commands and operations that apply to both types of events for selections composed of both audio and video events.

### Selecting nonadjacent events

1. Hold the Ctrl key.
2. Select the events by clicking them.

To deselect an event, simply click it again to toggle the event selection on or off.




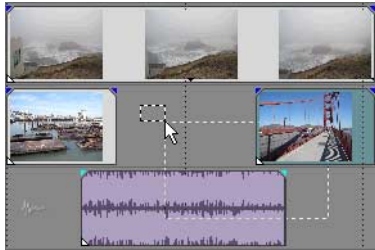
### Selecting a range of events

1. Hold the Shift key.
2. Click the first event that you want to select.
3. Click the last event that you want to select.

All events between the first and last selected events are highlighted and selected.

### Selecting a block of events

1. Click the **Selection Edit Tool** button .
2. Position the cursor in a corner of the area that you want to select.
3. Click and hold the left mouse button.
4. Drag the cursor to the opposite corner of the area you want to select. A rectangle is drawn on the workspace. All events within this rectangle are selected.



Hold the left mouse button and right-click to toggle through the three types of selection boxes: free, vertical, or horizontal.

**Tip:** You can include or exclude events from a selection area by pressing **Ctrl** and clicking an event. To deselect all events, click anywhere in the workspace outside of the selected events.

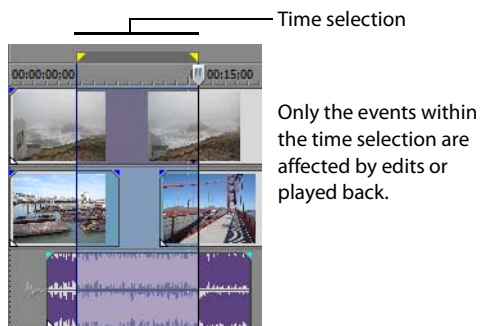
### Selecting all events to the end of the track

1. Right-click an event. A shortcut menu appears.
2. From the shortcut menu, choose **Select Events to End**. All events on the track after the selected event are selected.

**Tip:** To move large blocks of events, you can use **Select Events to End** with events selected on different tracks. Press **Ctrl** and click to select events on different tracks, and then right-click to access the shortcut menu.

### Selecting a time range

Time selections are indicated by a shaded box and a bar that appears on the top of the timeline. You can use the time selection bar for playing back a smaller portion of your project or to apply cross-track edits.



**Note:** Unless an event is locked, a selected time range affects all events, or portions of events, that occur within the range.

## Dragging to select a time range

1. Position the mouse pointer above the ruler (on the marker bar). The mouse pointer changes to a left/right arrow cursor (↔).
2. Drag to select a region. All events, or portions of events within the region, are highlighted.
3. Drag the yellow handles on either end of the time selection to increase or decrease your time range selection.



**Tip:** You can move the entire selection range by dragging the time selection bar.

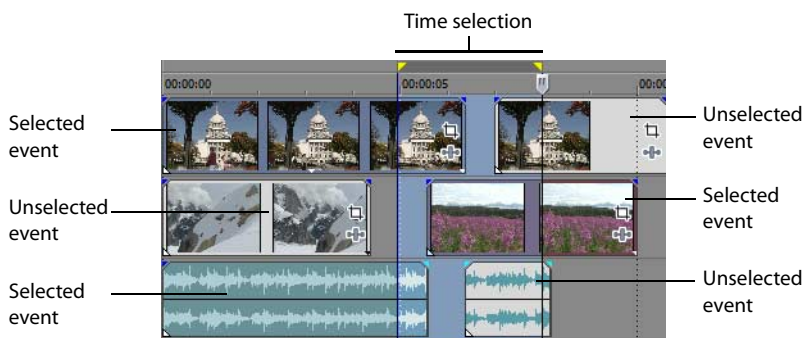
## Looping playback

If you want to play back the time range, click **Play** (▶) to play only the events within the time range. Click the **Loop Playback** button (🔄) or press Q to toggle loop playback on and off. Vegas Movie Studio HD Platinum software continually plays back the portion of the timeline within the time selection when loop playback is on.

## Selecting events and a time range

Selecting a time range does not automatically select events. Excluding locked events, all items within the time range play back and are affected by **Edit** menu commands. However, you may select specific events to edit, and then select a time range.

1. Select the events you wish to edit. *For more information, see [Selecting multiple events](#) on page 30.*
2. Place the mouse pointer above the ruler (on the marker bar). The mouse pointer changes to a left/right arrow cursor (↔).
3. Drag to select the region. Notice that events that were not initially selected in step 1 remain unselected (not highlighted).



## Selecting tracks

Click a track header to select it. Hold Ctrl or Shift to select multiple tracks.

## Editing events

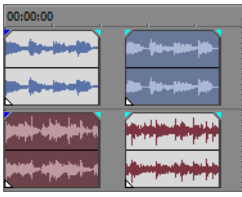
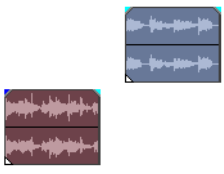
### Copying events

You can copy events, or portions of events, to the clipboard and paste them into your project. You can copy a single event or multiple events. Copying preserves the original event information, edits, and other modifications.

1. Select the events to be copied. *For more information, see [Selecting multiple events](#) on page 30.*
2. Select a time range, if applicable.
3. Click the **Copy** button (📄).

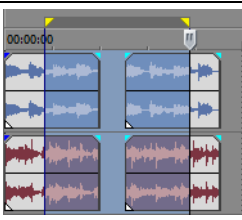
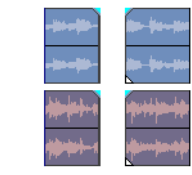
## Copying selected events

When copied, selected events are reproduced and placed on the clipboard. Time information is also placed on the clipboard.

Events before copy	Clipboard contents	Events after copy
		<p>The original events are not affected and do not change.</p>

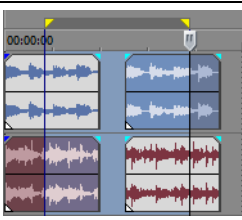
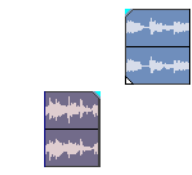
## Copying a time selection

Events within the time selection and across all tracks are reproduced and placed on the clipboard. Time information is also placed on the clipboard.

Events before copy	Clipboard contents	Events after copy
		<p>The original events are not affected and do not change.</p>

## Copying a time selection and events


Events and portions of selected events within the time selection are reproduced and placed on the clipboard. Time information is also placed on the clipboard.

Events before copy	Clipboard contents	Events after copy
		<p>The original events are not affected and do not change.</p>

## Cutting events

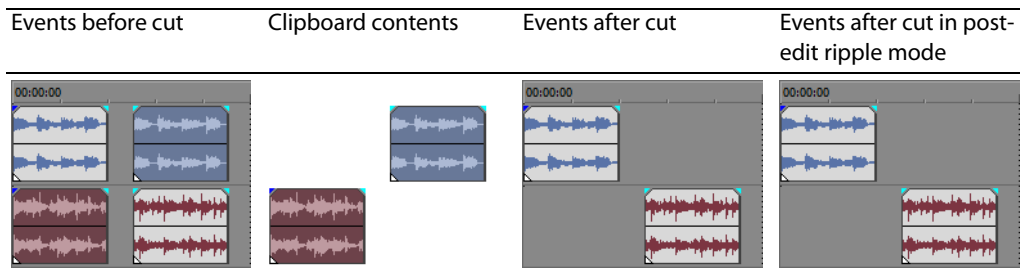
Cutting events removes them from their respective tracks, but places the cut information (events and time) on the clipboard. Once on the clipboard, you can paste the information into your project.

**Tip:** You can apply a ripple edit after cutting. For more information, see the online help. From the **Help** menu, choose **Contents and Index**.

1. Select events or a time range. For more information, see [Making selections](#) on page 30.
2. Click the **Cut** button .

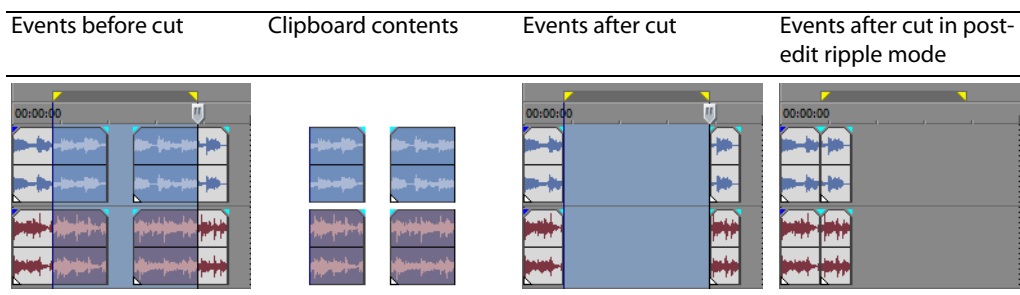
### Cutting selected events

When cut, selected events are removed from the timeline and placed on the clipboard. Time information is also placed on the clipboard.



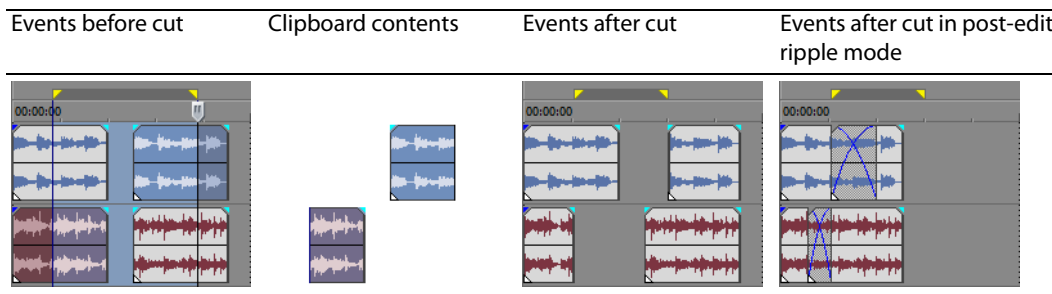
### Cutting a time selection

Events within the time selection are reproduced and placed on the clipboard. Time information is also placed on the clipboard. When cutting a time selection, ripple edit mode affects the position of material on all tracks or affected tracks after the cut.



### Cutting a time selection and events

Events and portions of selected events within the time selection are reproduced and placed on the clipboard. Time information is also placed on the clipboard. When cutting a combination of time selection and event selection, post-edit ripple mode affects the position of material on all tracks or the tracks of selected events after the cut.



### Pasting events

Once information is copied to the clipboard, you may choose a variety of ways to paste the clipboard items. Items are always pasted from the cursor's position along the timeline.


When post-edit ripple mode is enabled, material is pushed down the track to make room for pasted material. The exact behavior of the ripple depends on what is being pasted, and the type of ripple edit you chose to perform. If one or more events are pasted, only those tracks where pasted material appears are ripple edited.

**Tip:** You can apply a ripple edit after pasting. For more information, see the online help. From the **Help** menu, choose **Contents and Index**.



1. Move the cursor to the desired location on the timeline.
2. Click either the track number or within the track where you want to paste the event. This track is the focus track; there can be only one focus track at a time.

**Note:** If you are pasting multiple events from different tracks, new tracks are automatically created as needed.

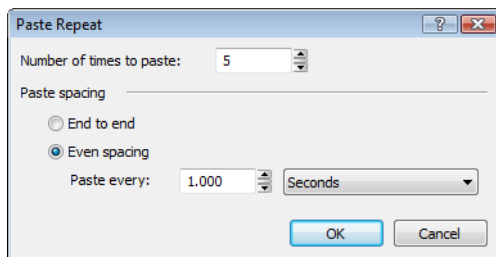
3. Click the **Paste** button .
 

Clipboard events are pasted at the cursor position on the track. Existing track events can be overlapped with newly pasted information.

### Using paste repeat

Use paste repeat to specify how many times clipboard events are pasted at the cursor position on the selected track and to specify the space between pasted events.

1. Copy a selection to the clipboard.
2. From the **Edit** menu, choose **Paste Repeat**. The Paste Repeat dialog appears.

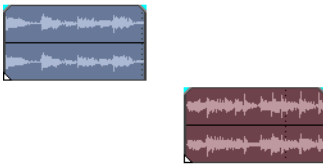
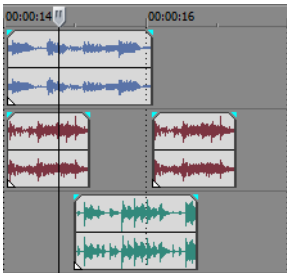
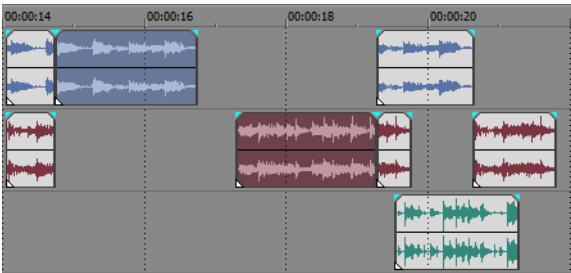


3. Specify the number of times to paste the clipboard contents and the space between successive copies.
4. Click **OK**.

### Using paste insert

When using paste insert, clipboard events are placed at the cursor position on the selected track and existing events on all tracks are moved further down the timeline by the total length of pasted information. This action differs from post-edit ripple mode because pasting in post-edit ripple mode affects only the tracks in which material is pasted, while paste insert affects all tracks in the project.

1. Copy a selection to the clipboard.
2. From the **Edit** menu, choose **Paste Insert**.

Clipboard contents	Events before paste insert	Events after paste insert
		
		Events on all tracks (not just tracks with pasted material) are pushed down the timeline.

## Punching-in and crossfading events

You can insert events into the middle of (on top of) existing events without altering the timing of the project. When the inserted event ends, the original event continues playing as if it had never stopped.

You can choose the duration of crossfades for punched-in audio events.

1. From the **Options** menu, choose **Preferences**. The Preferences dialog appears.
2. Click the **Editing** tab.
3. Select **Quick fade length of audio events**. Specify a duration for each transition.

Events that have previously been inserted or punched-in are not affected by this change. The concept of punching in and out only applies when you are inserting an event that is shorter than the event that it is being inserted into. In the following illustration, every frame is numbered so that you can see how the original event continues after the inserted event ends, as if it continued to play underneath the original.



## Duplicating events

Duplicating is a combination of copying and pasting in one action. The process moves the event to a new position while leaving a copy behind.

1. Press **Ctrl**.
2. Drag the event you want to duplicate to the place where you want the new event to be positioned.

## Trimming events


This section describes simple ways to trim events.

**Tip:** You can apply a ripple edit after trimming an event. For more information, see the online help. From the **Help** menu, choose **Contents and Index**.

### Trimming an event

During the trimming process for a video event, the last thumbnail image on the event and the Video Preview window show the last frame in the event, allowing you to edit events very accurately.

1. Move the cursor over the edge of the event. The cursor changes when properly positioned ( $\leftrightarrow$ ).
2. Drag the edge of the event to trim it.

Since a multimedia file often has both a video and an audio component, both events are trimmed (or extended) as a group unless you ungroup them or temporarily suspend grouping by clicking the **Ignore Event Grouping** button (.



Trimming grouped events at the same time

## Trimming an event beyond its end

You can trim an event beyond its end, extending it as a result. Once extended, the event loops by default. A notch indicates where the looped event repeats.

Alternately, you can turn looping off and make the last frame of an event's media repeat for the duration of the event (a freeze frame). A notch appears at the point in the event where the video ends and the freeze frame begins.

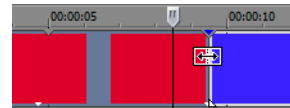
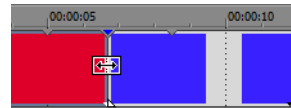
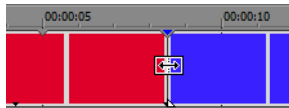
## Trimming adjacent events

You can trim adjacent events simultaneously. Press Ctrl+Alt while dragging the common edge between two adjacent events. The trim adjacent cursor appears (↔).

Press Ctrl+Alt over the boundary between two events...

...and drag left...

...or right to trim both events at once.



## Trimming a time selection

Trimming events removes all media outside the time selection. The removed information is not placed on the clipboard. Trimming is different from cutting in that the events *within* the time selection are preserved.

1. Select a time range. *For more information, see [Selecting a time range on page 31](#).*
2. Press Ctrl+T or, from the **Edit** menu, choose **Trim**.

The material outside the time selection (across all tracks) is removed from the project. However, the time information (space) between events is not removed.

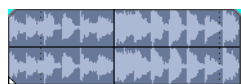
Events before trim	Clipboard contents	Events after trim
	Trimmed information is not placed on the Clipboard.	

## Splitting events

You can create multiple, independently functioning events from a single event by splitting it. Splitting creates a new ending point for the original event and creates a starting point for the newly created event.

Splitting an event does not alter the original media. The original media file's information is there, but is omitted for playback based on where the event's starting or ending point occurs on the timeline.

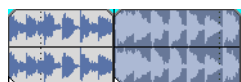
When split, the two new events are flush against one another. The two events can be moved independently.



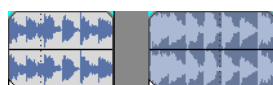
One event



Split position



Two events after split



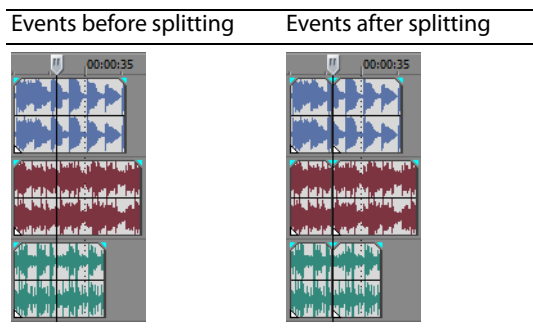
The two new events can be moved independently.

### Splitting an event

1. Select the events to be split. *For more information, see [Making selections](#) on page 30.*
2. Place the cursor at the timeline position where the split will occur.
3. From the **Edit** menu, choose **Split**, or press S. The selected events are split at the cursor position.

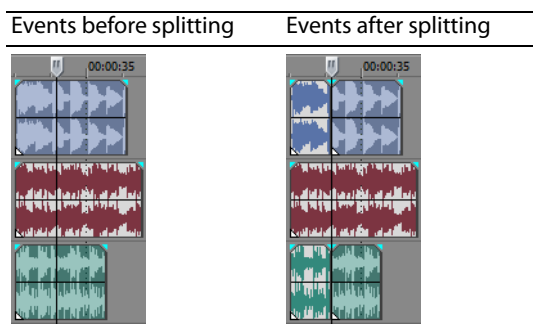
### Splitting all events at the cursor

All events are split at the cursor's position (unless an event is locked). The split occurs across all tracks (if no events are selected).



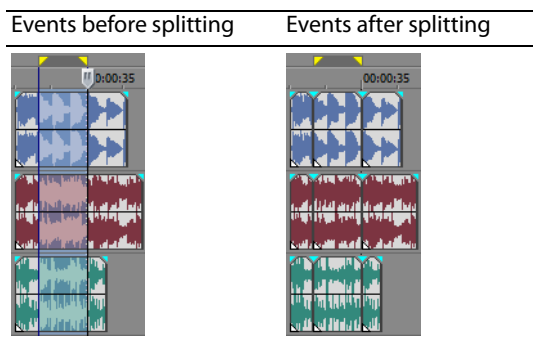
### Splitting selected events

Only the selected events are split at the cursor's position.



### Splitting a time selection

Unless locked, all events within the time selection are split at the starting and ending points of the time range, meaning that two splits are made. The split occurs across all tracks.



## Splitting and trimming events

Hold Ctrl+Alt+Shift and click an event to split it. Hold Ctrl+Alt+Shift and drag an event to split it at the point you click and trim the event in the direction you drag. The cursor changes to the split-trim cursor ( $\leftrightarrow$ ).



**Tip:** Holding the Shift key temporarily overrides snapping if it is enabled. Release the Shift key while dragging to snap the event to available snap points.

## Deleting events

Deleting an event removes it from its track. Multiple events can be deleted and time selections can be used to modify the process. Ripple editing also applies to delete actions. Deleting operates exactly like a cutting operation, but the removed information is *not* placed on the clipboard. For more information, see [Cutting events on page 33](#).


1. Select the events to be deleted.
2. Press Delete.

## Crossfading events

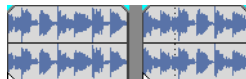
You can crossfade between two events on the same track. For audio events, crossfading fades out one audio event's volume while another event's volume fades in. For video events, crossfading creates a transition between two events, one fading out while the other fades in. Lines appear indicating how and when the event's volume or transparency is being affected.



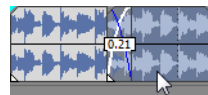
## Using automatic crossfades

The automatic crossfade feature turns the overlapping portions of two events into a smooth crossfade. This feature is turned on by default. Click the **Automatic Crossfades** button () or press Ctrl+Shift+X to turn automatic crossfades on and off.

Event before crossfade



Event after crossfade

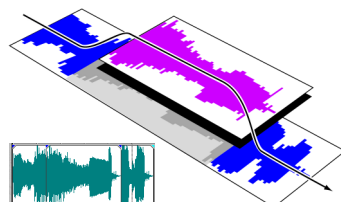


Drag one event to overlap the other

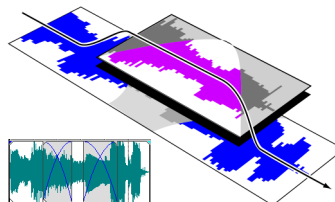
## Manually setting a crossfade

An automatic crossfade is not inserted if a shorter event is placed on top of and within the same time frame of a longer event. In this case, the longer event begins playing, then the shorter event plays, and then the longer event resumes playing at the timeline position. You can manually create a crossfade to fade in and out of the shorter event.

1. Place the mouse pointer on one of the shorter event's handles. The envelope cursor appears ( $\leftrightarrow$ ).
2. Drag the handle to the desired position.



Events without crossfade

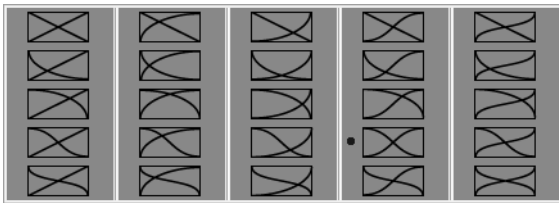


Events with manual crossfade

This is a fast and effective method of inserting a voiceover on top of a background music track (although the music fades out completely) or to replace a bad section of audio. For more information, see [Punching-in and crossfading events on page 36](#).

## Changing crossfade curves


You can change the crossfade curves that are used to fade in and out between two events.



Right-click a crossfade to choose a different crossfade curve


1. Right-click anywhere in the crossfade region to display a shortcut menu.
2. From the shortcut menu, choose **Fade Type**, and choose the desired fade type from the submenu.

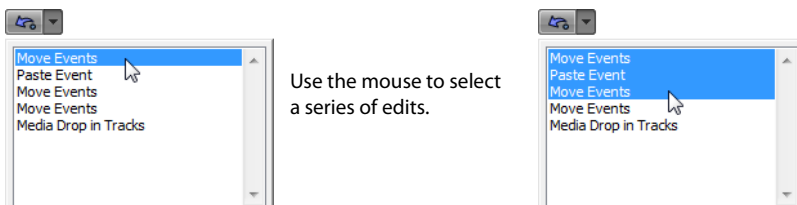
## Using undo

Pressing Ctrl+Z or clicking the **Undo** button  reverses the last edit performed. Repeatedly using the keyboard command or toolbar button continues undoing edits in reverse order, from most recent to oldest. In addition, you can undo the last edit by choosing it from the **Edit** menu.

### Undoing a series of edits

You can undo a series of edits by using the drop-down list on the **Undo** button.

1. Click the arrow to the right of the **Undo** button .
2. From the drop-down list, choose the edit that you want to undo. Items above it (subsequent edits) are selected automatically. Your project is restored to the state prior to those edits.




Use the mouse to select a series of edits.


When you undo an edit or a series of edits, they are added to the redo history. This feature allows you to restore your project to a previous state.

**Tip:** From the **Edit** menu, choose **Undo All** to undo all edits in the history. All edits are undone and added to the redo history.

## Using redo

Pressing Ctrl+Shift+Z or clicking the **Redo** button  redoes the last undo performed. Repeatedly using the keyboard command or toolbar button continues redoing undos in reverse order, from most recent to oldest. In addition, you can redo the last edit by choosing it from the **Edit** menu.

### Redoing a series of edits

You can view the redo history by clicking the arrow on the right side of the **Redo** button . The top item in the list that appears is the most recent undo edit. If you redo a specific edit that appears farther down the list, all subsequent edits above it are redone as well.

When you redo an edit or a series of edits, they are added to the undo history again. The redo history is cleared when a new edit is performed.

**Note:** You are given unlimited undo and redo functionality while working on your project, even to the extent of being able to undo changes made before the last time a project was saved (but not closed). While you are working with a project, an undo history of the changes that you have performed is created. Each time you undo something, that change is placed in the redo history.

When you close the project or exit the software, both the undo and redo histories are cleared.

## Adding project markers and regions

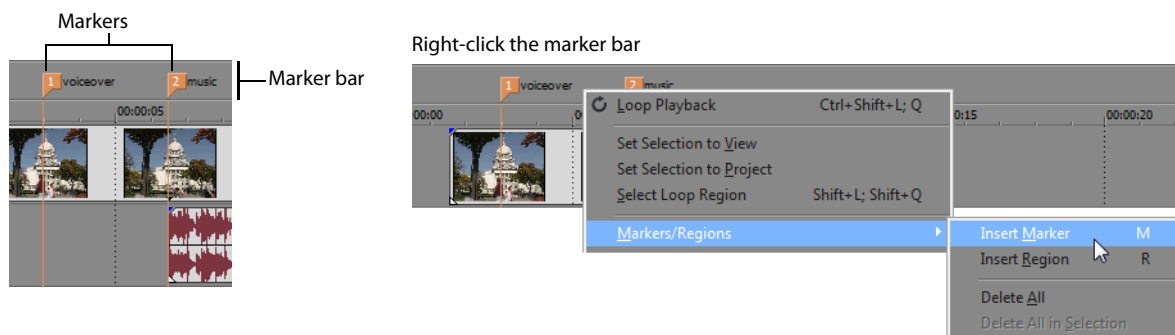
Several types of project markers are provided that identify parts of your project, serve as cues, and provide additional functionality:

- **Markers** are points that you mark along the project's timeline. They are typically used to mark locations in the project for later reference or to mark timing cues.
- **Regions** are ranges of time that you mark along the timeline. Regions identify ranges of time for your reference and can function as permanent time selections.
- **CD layout markers** are markers that indicate tracks and indexes for an audio CD layout. These marks are used to create tracks and index points when burning an audio CD.

**Tip:** You can use ripple editing to automatically move markers and regions as you edit in the timeline. For more information, see [Crossfading events on page 39](#).

### Working with markers

Markers are useful for identifying and navigating to specific locations in longer projects. As you place markers in your project, they are automatically numbered (up to 99) in the order that they are placed. Markers appear as orange tags above the ruler. You may name them and reposition them along the project's timeline.




#### Inserting a marker at the cursor

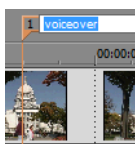
1. Position the cursor where you want to place the marker.
2. From the **Insert** menu, choose **Marker**, or press M.
3. Type a name for the marker and press Enter. If you do not want to name the marker, simply press Enter.

#### Inserting a marker during playback

During playback, press M. The marker appears on the marker bar. You can name the marker after it has been set.

#### Naming (or renaming) a marker

1. Place the mouse pointer on the marker you want to name or rename. The pointer changes to a hand icon ()
2. Right-click to display a shortcut menu.
3. From the shortcut menu, choose **Rename**. A text box opens next to the marker.



4. Type the marker name.
5. Press Enter to set the marker's name.

You can also double-click an existing name or double-click the space just to the right of a marker to rename it.

#### Moving markers

You can reposition a marker by dragging it on the marker bar.

## Navigating to markers

You can jump the cursor to any marker on the timeline by clicking the marker. You can also jump to a marker by pressing the number keys along the top of the keyboard (not the numeric keypad).

**Tip:** Jump the cursor to the next or previous marker by pressing **Ctrl+Right Arrow** or **Ctrl+Left Arrow**.

## Deleting markers

1. Place the mouse pointer on the marker that you want to delete. The pointer changes to a hand (☞).
2. Right-click to display a shortcut menu.
3. From the shortcut menu, choose **Delete**. The marker is removed from your project.

The tags are not renumbered as you remove them. For example, if you have five markers in your project and delete markers 3 and 4, the remaining markers will be listed as 1, 2 and 5. However, as you add markers again, Vegas Movie Studio HD Platinum software begins numbering the missing sequence first, in this case 3 and 4, then 6, 7, and 8.

## Deleting all markers and regions

1. Right-click the marker bar.
2. From the shortcut menu, choose **Markers/Regions**, and choose **Delete All** from the submenu.

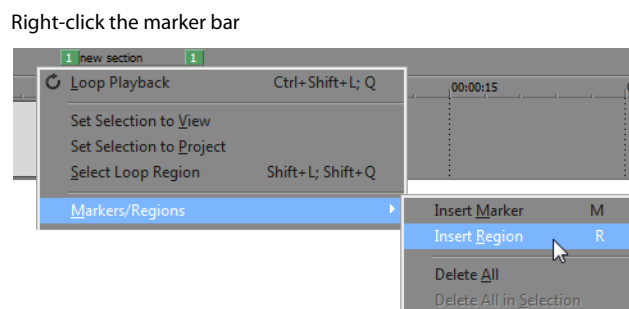
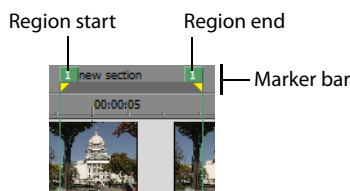
## Working with regions

Regions identify ranges of time and provide a way to subdivide your project. A region is defined as the area between two region markers that share the same number. Regions can function as semi-permanent time selections. You can view region information in the Explorer by clicking the arrow next to the **View** button (☰) and selecting **Region View**.

## Inserting regions

1. Make a time selection. For more information, see [Selecting a time range on page 31](#).
2. From the **Insert** menu, choose **Region**, or press R.
3. Type a name for the region and press Enter. If you do not want to name the region, simply press Enter.

Region markers appear at the beginning and end points of a time selection.



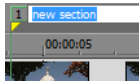
## Moving regions

Drag a region marker to reposition it. To move both region markers (start and end markers) at once, hold **Alt** while dragging a region marker.



## Naming regions

1. Place the mouse pointer on the left region marker you want to name or rename. The pointer changes to a hand icon (☞).
2. Right-click to display a shortcut menu.
3. From the shortcut menu, choose **Rename**. A text box appears next to the region marker.

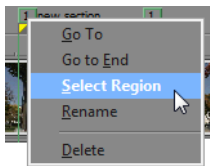


4. Type the region's name.
5. Press Enter or click anywhere in the timeline to set the name.

## Selecting regions

You may select the events, across all tracks, within the region for editing or playing back.

1. Right-click one of the region markers to display a shortcut menu.



Selected region

2. From the shortcut menu, choose **Select Region**.

**Tip:** You can also select a region by pressing a number on your keyboard (not the numeric keypad) or by double-clicking a region marker.

## Navigating to regions

You can move the cursor to the start or end of a region by clicking either region marker. You can press Ctrl + Right Arrow or Ctrl + Left Arrow to move the cursor to the next or previous region markers.

Right-click a region marker to display a shortcut menu that allows you to navigate to the beginning (**Go to Start**) or the end (**Go to End**) of a region.

## Deleting regions

1. Place the mouse pointer on the region marker's starting or ending point. The pointer changes to a hand icon (☞).
2. Right-click to display a shortcut menu.
3. From the shortcut menu, choose **Delete**. The region is removed from your project.

The tags are not renumbered as you remove them. For example, if you have five regions in your project and delete region 3 and 4, the remaining regions are listed at 1, 2 and 5. However, as you add regions again, Vegas Movie Studio HD Platinum software begins numbering the missing sequence first, in this case 3 and 4, and then 6, 7, and 8.

## Deleting all regions and markers

1. Right-click the marker bar.
2. From the shortcut menu, choose **Markers/Regions**, and choose **Delete All** from the submenu.

## Using an external audio editing program

The Vegas Movie Studio HD Platinum timeline is a nondestructive editing environment, which means that the original source files remain unchanged by any editing done in the software. Edits that modify the actual source media file (destructive edits) can be performed in a separate application such as Sound Forge® software from Sony Creative Software Inc. By setting up a separate audio editor, you can quickly access the program from Vegas Movie Studio HD Platinum software via the **Tools** menu or by pressing Ctrl+E.

### Setting up an audio editing program

If you already have Sound Forge software loaded on your computer when you installed Vegas Movie Studio HD Platinum software, the installation should have detected it and made it your default audio editing program. However, if you do not have Sound Forge software or want to specify a different audio editor, you can do so in the Preferences dialog.

1. From the **Options** menu, choose **Preferences**. The Preferences dialog appears.
2. In the Preferences dialog, click the **Audio** tab.
3. Click the **Browse** button to the right of the **Preferred audio editor** box. The Preferred Audio Editor dialog appears.
4. From this dialog, navigate to the application to use for editing audio files.
5. Select the application's executable icon (.exe) and click **Open** to set the application as your default audio editor.  
The application's path appears in the **Preferred audio editor** box.

### Opening events in an audio editor

From the **Tools** menu, choose **Audio**, and choose **Open in [editor name]** from the submenu to start your sound-editing application and modify the selected audio event using the editor specified on the Audio tab in the Preferences dialog.

1. Select the event you want to edit.  
You can select multiple events to open each event in a separate window in the sound editor.
2. From the **Tools** menu, choose **Audio**, and choose **Open in [editor name]**. The editing application is opened with the event's media.
3. Edit and save the file.  
After you have edited and saved the file, Vegas Movie Studio HD Platinum automatically detects the updated file and updates the event in the project. However, if you change the media file's name or location (by using Save As), you must import the edited (new) file into your project.

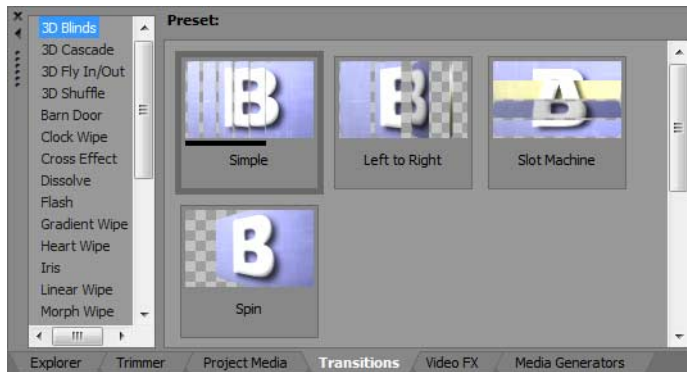
**Note:** When you first install Vegas Movie Studio HD Platinum, it searches for Sound Forge software. If the software is detected, it is automatically assigned as your sound editor. However, if you do not have Sound Forge software, you can specify the location of your preferred audio editor on the Audio Tab in the Preferences dialog.

**Tip:** You can also edit a file that has been placed in the Trimmer window by right-clicking audio waveform and choosing **Open in Audio Editor**.

## Chapter 4 Adding Transitions, Video Effects, and Titles

### Adding transitions

From the **View** menu, choose **Transitions** to display or hide the Transitions window. Use this window to choose and preview transition effects that you can use to control how a video event begins or ends, or to change the way one event flows into another.



For information about each transition type, see the Vegas® Movie Studio HD Platinum online help. From the **Help** menu, choose **Contents and Index** to display the online help.

#### Tips:

- To apply a preset without displaying the Video Event FX dialog, hold the Shift key while dragging a preset from the Transitions window to the timeline.
- To move transition controls in fine increments, hold Ctrl while dragging the control.
- Select **Show event fade lengths** from the **View** menu to display fade lengths between selected and nonselected events in the timeline. You can use this display as a quick indicator of a transition's length.

### Adding transitions to events

1. From the **View** menu, choose **Transitions** to display the Transitions window.
2. Select a transition from the list on the left side of the window. The thumbnail images on the right side of the window represent each of the existing presets for the selected transition. Hover your cursor over a preset to see an animated example.
3. After you've found the setting that you want to use, drag it to the position where you want it to occur on the timeline.

You can drop the transition at either end of an event, between two overlapping events, or between two adjacent events.

The Video Event FX dialog is displayed to allow you to edit the transitions settings, and a **Transition Properties** button (⌘) is displayed in the timeline to show you where the transition takes place. You can also click this button to edit the transition's settings.

### Adding a transition to all selected events

If you tend to use the same transitions often, you can save yourself some time by adding a transition to all selected events at once.

1. Select the events where you want to add the transition.
2. From the **View** menu, choose **Transitions** to display the Transitions window.
3. Select a transition from the list on the left side of the window. The thumbnail images on the right side of the window represent each of the existing presets for the selected transition. Hover your cursor over a preset to see an animated example.

4. After you've found the setting that you want to use, drag it to the a transition on one of the selected events. The new transition will replace all existing transitions in the selected events.

The Video Event FX dialog is displayed to allow you to edit the transition's settings, and a **Transition Properties** button (∞) is displayed in the timeline to show you where the transition takes place. You can also click this button to edit the transition's settings.

### Changing the speed/duration of a transition

After you've added a transition to an event, you can easily adjust its duration, which will change the speed at which the transition occurs.

#### Adjusting a transition at the beginning or end of an event

1. Hover over the edge of the transition until the fade cursor (+/-) is displayed.
2. Drag the edge of the transition to set its new length.



#### Adjusting a transition between two events

Drag either of the events to change the amount of overlap between them. The transition length is updated to match the overlapping area.



### Editing a transition

Click the **Transition Properties** button (∞) on a transition to change the transition's settings.

For information about each transition type, see the Vegas Movie Studio HD Platinum online help. From the **Help** menu, choose **Contents and Index** to display the online help.

### Changing to a different transition

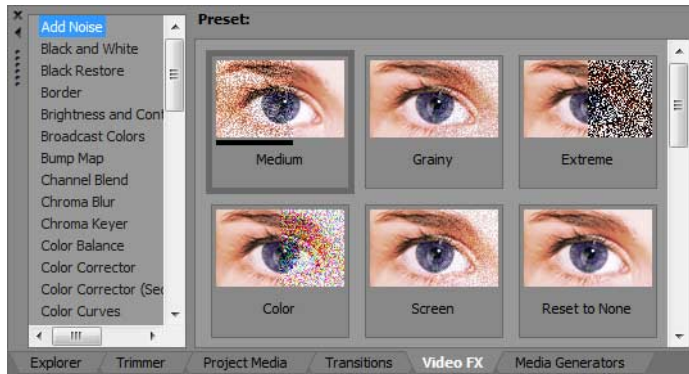
1. Click the **Transition Properties** button (∞) on an event to display the Video Event FX dialog.
2. Drag a different transition from the Transitions window to the Video Event FX dialog.

### Removing a transition

1. Click the **Transition Properties** button (∞) on an event to display the Video Event FX dialog.
2. Click the **Remove Selected Plug-In** button (X) to remove the current transition.

## Adding video effects

There are several methods available for applying effects to video. Video plug-ins can be applied to tracks, video events, source media files (via the Project Media window), or to the entire video project.



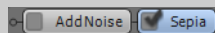
### Tips:

- To apply a preset without displaying the Video FX dialog, hold the Shift key while dragging a preset from the Video FX window to a track header, event, or the Video Preview window.
- To move effect controls in fine increments, hold Ctrl while dragging the control.

## Adding video effects to an event, track, media file, or project

1. Click the FX button (FX icon) in the location where you want to add video effects. The Video FX dialog is displayed. The FX button is displayed in gray when no effects have been applied. Clicking the gray FX button displays the Plug-In Chooser.
  - Click the **Event FX** button on a video event to apply an effect to a single event.
  - Click the **Track FX** button on a track header to apply an effect to every event on a track.
  - Click the **Media FX** button in the Project Media window or hold Alt while clicking the **Event FX** button on an event to apply an effect to every occurrence of a media file in your project (the source media file is not affected).
  - Click the **Video Output FX** button in the Video Preview window to apply an effect to every video event in your project.
2. Click the **Plug-In Chain** button (chain icon) in the Video FX dialog to display the Plug-In Chooser. Select each plug-in you want to add and click the **Add** button. Click **OK** to close the Plug-In Chooser.

**Tip:** To reorder the plug-ins within the chain, drag a plug-in button to a new location.



3. Use the Video FX dialog to enable/bypass effects, edit effect parameters, and add/remove effects from a chain.

## Edit existing video effects

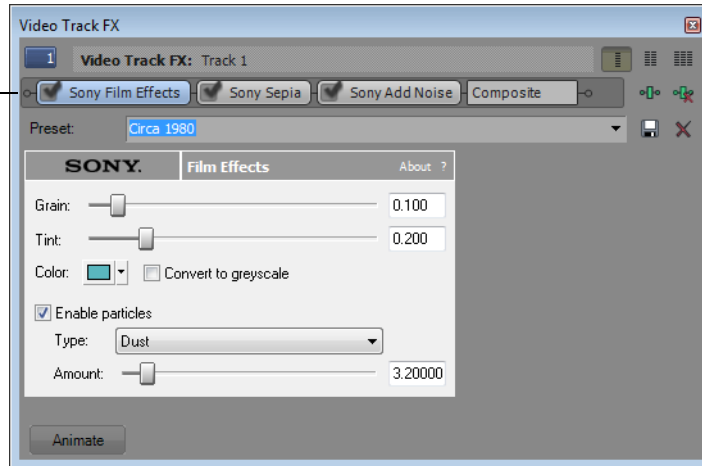
1. Click the FX button (fx) in the location where you want to edit video effects. The Video FX dialog is displayed.

Plug-in chain

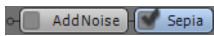
Click a plug-in to modify its settings in the lower part of the window.

Clear the check box on a plug-in to bypass it.

Drag a plug-in to move it within the chain.



2. Select an effect button at the top of the dialog.



**Tip:** Clear the check box to bypass an effect without removing it from the chain.

3. Use the controls in the bottom half of the dialog to adjust the effect's settings.
4. Click the **Remove Selected Plug-In** button (fx) to remove the current plug-in from the chain.

For more information about the different controls in the Video FX window, click the **Plug-In Help** button (fx) to access online help.

## Adding titles, text, and credits

Most video projects include titles and credits. You can use the Titles & Text plug-in to create static and animated text and the Credit Roll plug-in to create scrolling credits.

### Adding titles and text

1. From the **View** menu, choose **Media Generators** to display the Media Generators window.
2. In the left pane, select the Titles & Text plug-in. The available presets are displayed in the right pane.
3. Drag a preset to a position on the timeline to create a generated media event.

**Tip:** *If you want text to appear as an overlay, add it to a track above the video you want to overlay and use a transparent background. For more information about compositing video tracks, see the online help.*

4. Use the Titles & Text plug-in controls to edit the appearance of your text. *For more information about the Titles & Text plug-in, see the online help.*

### Adding scrolling credits

1. From the **View** menu, choose **Media Generators** to display the Media Generators window.
2. In the left pane, select the Credit Roll plug-in. The available presets are displayed in the right pane.
3. Drag a preset to a position on the timeline to create a generated media event.

**Tip:** *If you want text to appear as an overlay, add it to a track above the video you want to overlay and use a transparent background. For more information about compositing video tracks, see the online help.*

4. Use the Credit Roll plug-in controls to edit the appearance of your text. *For more information about the Credit Roll plug-in, see the online help.*

**Tip:** *You can also use a word-processing application to compose your credits. Copy the text from your word processor and paste it into the Credit Roll generator. Adding a tab between two text items will format the text in two columns.*





## Chapter 5 Stereoscopic 3D Editing

You can use Vegas® Movie Studio HD Platinum to edit stereoscopic 3D (S3D) projects without any add-ons or additional tools.

Editing a stereoscopic 3D project is just like editing a standard Vegas Movie Studio HD Platinum project and requires minimal adjustment to your workflow:




1. Start a new project and set your project properties to choose a stereoscopic 3D mode. *For more information, see [Creating projects](#) on page 15 and [Setting up your stereoscopic 3D project](#) on page 51.*
2. Set up your Video Preview window and external monitor (optional). *For more information, see [Setting up stereoscopic 3D previews](#) on page 53.*
3. Add media to the timeline. *For more information, see [Adding media to the timeline](#) on page 21.*
4. Synchronize and pair events on the timeline (when working with separate left and right video streams) or set stereoscopic 3D media properties if necessary. *For more information, see [Synchronizing stereoscopic 3D events on the timeline](#) on page 53.*
5. Align the left- and right-eye views and adjust video depth. *For more information, see [Aligning left- and right-eye views and adjusting depth](#) on page 55.*
6. Render your project. *For more information, see [Rendering a stereoscopic 3D project](#) on page 56.*



### Setting up your stereoscopic 3D project

The **Video** tab in the Project Properties dialog allows you to configure options for working in 3D.

By default, the project's **Stereoscopic 3D mode** and **Swap Left/Right** settings will also be used when previewing and rendering your project, but you can override the project settings if necessary.

1. From the **File** menu, choose **Properties**. The Project Properties dialog is displayed.
2. Choose a setting from the **Stereoscopic 3D mode** drop-down list.

Setting	Description
<b>Off</b>	Choose this setting when creating a 2D project.
<b>Side by side (half)</b>	Choose this setting when your project will contain left- and right-eye views in a single frame. Left- and right-eye views are displayed as half of the available horizontal resolution. In this example, the left-eye image is tinted blue, and the right-eye image is tinted red: 
<b>Side by side (full)</b>	Choose this setting when your project will contain left- and right-eye views in a single frame. Left- and right-eye views are displayed using the full horizontal resolution. In this example, the left-eye image is tinted blue, and the right-eye image is tinted red: 
<b>Anaglyphic (red/cyan)</b>	Left- and right-eye views use color filters to allow anaglyphic glasses to separate the left- and right-eye views. 

Setting	Description
<b>Line alternate</b>	<p>Choose this setting when your project will be displayed on a line-alternate 3D monitor.</p> <p>Left- and right-eye views are interlaced using half of the available vertical resolution.</p> <p>In this example, the left-eye image is tinted blue, and the right-eye image is tinted red:</p> 
<b>Left only</b> <b>Right only</b>	<p>Choose the <b>Left only</b> or <b>Right only</b> setting for editing on a 2D monitor or if you're creating separate projects for the left- and right-eye outputs.</p> <p>In this example, the left-eye image is tinted blue, and the right-eye image is tinted red:</p> 


3. Select the **Swap Left/Right** check box if you need to switch the left- and right-eye pictures. This setting is useful if you're using a line-alternate display that displays the right eye on top or to create cross-eye free-view 3D.

## Setting up stereoscopic 3D previews

If your project uses the anaglyphic (red/cyan) stereoscopic 3D mode, you can use anaglyphic 3D glasses to view your 3D project in the Video Preview window.

If you want to preview your project on a 3D television or monitor, you can use the Preview Device tab in the Preferences dialog to configure a 3D display for previewing your project. From the **Options** menu, choose **Preferences**, and then select the **Preview Device** tab.

- If you're using an NVIDIA graphics card that supports 3D Vision technology and a 3D Vision monitor, choose the **Stereoscopic 3D Graphics Card** setting from the **Device** drop-down list in the Preview Device tab and choose **Left and Right** from the **Stereoscopic 3D mode** drop-down list.
- If you're using an NVIDIA graphics card that supports 3D Vision technology and a 3D-capable HDTV, choose the **Stereoscopic 3D Graphics Card** setting from the **Device** drop-down list in the Preview Device tab and use the **Stereoscopic 3D mode** drop-down list to choose the method your monitor uses to display stereoscopic 3D content — typically **Side by side (half)** or **Line alternate**. Be sure to set the 3D mode in your television's setup menu and the Vegas Movie Studio HD Platinum Preview Device tab.
- If you're using a 3D television connected to your computer via a IEEE 1394 (FireWire) connection, choose the **OHCI Compliant IEEE 1394/DV** setting from the **Device** drop-down list in the Preview Device tab and use the **Stereoscopic 3D mode** drop-down list to choose the method your television uses to display stereoscopic 3D content.

During playback, select the **Video Preview on External Monitor** button  in the Video Preview window to enable your 3D display. You can turn off external preview by pressing Alt+Shift+4 or by clicking the secondary display and pressing Esc.

For more information about setting up your specific hardware, see the online help. From the **Help** menu, choose **Contents and Index**.

## Synchronizing stereoscopic 3D events on the timeline

When shooting stereoscopic 3D using a pair of cameras, it is important to record a synchronizing event. Some users clap or snap their fingers in front of the cameras; others use a flash from a still camera, a pet-training clicker, or a professional slate.

### Tips:

- If you're working with multistream 3D files or files that contain both images in each frame, you don't need to align events. When you add multistream media to a stereoscopic 3D project, the first stream will be used and paired with the next stream.

If you need to change the mode for a media file or swap the left/right images, you can use the **Media** tab of the **Media Properties** dialog. For more information, see the online help.

- If you have two files that have synchronized timecode — such as video shot on a 3D camera that creates separate left- and right-eye clips — you don't need to align the audio and video. Just select the clips in the **Project Media** window and choose **Pair as Stereoscopic 3D Subclip** from the shortcut menu. The first stream will be used and paired with the next stream.

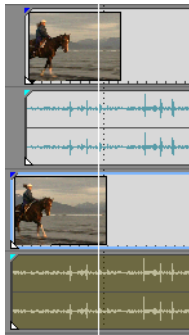
The first stream will be used and paired with the next stream. If you need to change the mode for a media file or swap the left/right images, you can use the **Media** tab of the **Media Properties** dialog.

Supported multistream formats:


- Dual-stream AVI or QuickTime files
- 3D AVC files created by 3D Bloggie HD cameras
- MPO (multiple picture object) 3D still images
- CineForm Neo3D 5.1 or later (a CineForm product or the free Neo player is required to read Cineform Neo3D files)
- Two separate files paired as described in this topic

1. Add your media to the timeline using **Add Across Tracks** mode so the video for the left and right eyes is on separate tracks. In the following example, the left-eye track is above the right-eye track.

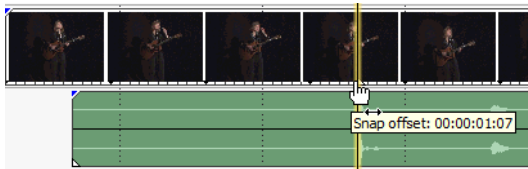
2. Use one of the following methods to align the audio and video so the video output is synchronized.
  - If you used a slate or a loud clap for your synchronization point, you can align the events to within a frame of each other using the audio waveforms:
    - a. Roughly align the audio waveforms by dragging events in the timeline.
    - b. Use the Zoom controls at the bottom-right corner of the timeline to zoom in on the waveform.
    - c. Verify **Quantize to Frames** is enabled because you want video frames to be aligned even if the audio is slightly out of alignment.
    - d. Drag a track's border to make the tracks taller and view large waveforms.
    - e. Use Shift+Up Arrow to magnify the waveforms if necessary.
    - f. Click the event you want to move and press 1 or 3 on the numeric keypad to nudge the event by frames to the left or right.



- Synchronizing a video event:

**Note:** These steps require snapping to be enabled, so if you have not already done so, turn snapping on by clicking the **Enable Snapping** button . For more information, see the online help.

- a. Solo the video track.
- b. Position the cursor at the synchronization point and drag the event's snap offset so it snaps to the cursor. *For more information, see the online help.*



- c. Repeat steps a and b for each clip.
- d. Drag the cursor to a snap point, and then snap the other clips to the cursor.

If the cameras were not genlocked together (shooting at the same cadence) you may find one to be up to half a frame ahead of the other. Unless your scene has lots of fast motion, this is acceptable; just be sure to get them as close as possible on the timeline.

3. Verify alignment:
  - a. Drag the **Level** slider on the top track to set its opacity to 50 percent.
  - b. Find a portion of the video with good movement and verify the motion is the same in both clips and that one clip does not lead the other.

If the cameras were not genlocked together (shooting at the same cadence), you may find that one clip is up to half a frame ahead of the other. Unless your scene has lots of fast motion, this is acceptable.

4. Select both video events, right-click one of the events, and choose **Pair as Stereoscopic 3D Subclip**.

One video event is deleted from the timeline, the active take for the event is set to the new multistream subclip, and a new multistream clip is added to the Project Media window. If you view the clip properties for the new subclip, you'll see that the **Stereoscopic 3D Mode** is set to **Pair with next stream**.

5. Delete the audio and video tracks you created in step 1.

After synchronizing the events, you will have a paired stereoscopic subclip in the Project Media window. You can drag these clips to the timeline as stereoscopic 3D media.

**Tip:** If your camera rig used mirrors or inverted cameras and produced flipped or rotated images that were not corrected in camera, you can correct the clip with the Stereoscopic 3D Adjust plug-in. For more information, see [Aligning left- and right-eye views and adjusting depth](#) on page 55.

## Aligning left- and right-eye views and adjusting depth

It is very important that stereoscopic 3D video have differences between the views only in horizontal displacement. Any vertical or rotational misalignment will detract from the viewing experience and may even cause viewer discomfort. Also, it is important to limit the amount and direction of horizontal offset to create comfortable depth.

For example, when shooting with parallel-axis cameras, all of the action is usually in front of the screen, and you need to use horizontal image translation to push most of it behind the screen.

Use the 3D glasses in combination with viewing the output without the glasses to create good alignment and depth settings. You usually want all of the action behind the screen plane, only crossing the screen plane for dramatic or special effect. However, make sure never to create divergence, where the left-eye picture would appear more than 2.5 inches to the left of the right-eye picture on the largest screen where your movie will be shown.

For example, if the largest screen to be used is 16:9 with a 106-inch diagonal, the width is 87 percent of the diagonal, or about 92 inches. With 1920x1080 content, 2.5 inches is only 52 pixels, so make sure your distant objects are never more than 52 pixels apart.

You can use the Stereoscopic 3D Adjust plug-in to adjust horizontal offset, vertical offset, keystone, and rotation. This plug-in can be applied at the event level, track level, or video output level. For more information about applying video effects, see [Adding video effects](#) on page 47.

You can use the plug-in's controls as follows:

Item	Description
<b>Horizontal Offset</b>	Drag the slider to adjust the horizontal alignment of the left- and right-eye views to set the perceived position of the video relative to screen depth.
<b>Vertical Offset</b>	If left- and right-eye views are not aligned vertically, drag the slider to correct the offset.
<b>Zoom</b>	If left- and right-eye views are not zoomed identically, drag the slider to correct the offset.
<b>Keystone</b>	Drag the slider to correct for image keystone. Image keystone occurs when the left- and right-eye cameras are not parallel.
<b>Rotation</b>	Drag the slider to correct for camera tilt in the left- and right-eye views.
<b>Auto Correct</b>	Click to analyze video and automatically calculate values for <b>Vertical Offset</b> , <b>Zoom</b> , <b>Keystone</b> , and <b>Rotation</b> .
<b>Flip Horizontal</b>	Choose a setting from the drop-down list to flip the image for horizontally inverted cameras.
<b>Flip Vertical</b>	Choose a setting from the drop-down list to flip the image for vertically inverted cameras.
<b>Automatic Crop</b>	Select this check box if you want to automatically crop the left- and right-eye views during adjustment to prevent black borders created by the plug-in's adjustments.
<b>Crop</b>	When the <b>Automatic Crop</b> check box is cleared, you can drag this slider to adjust image cropping.

**Tip:** 3D depth adjustment is a complex process and is out of the scope of this document. For more information, please review a reference such as *3D Movie Making: Stereoscopic Digital Cinema from Script to Screen* by Bernard Mendiburu.

## Rendering a stereoscopic 3D project

When you render your project, the **Stereoscopic 3D mode** setting from the **Video** tab in the Project Properties dialog is used by default.

If you want to use a different rendering format (to deliver separate left- and right-eye masters, for example, or to create multiple versions of your project), you can change the rendering mode.

Supported 3D rendering formats:


- CineForm Neo3D (requires CineForm NeoHD, Neo4k, or Neo3D 5.1 or later). You can create a custom QuickTime or AVI render template that uses CineForm as your video format. Rendering with this template will create a Neo3D file that can be used by any application that supports the CineForm stereoscopic 3D format.
- Two separate files. You can create two custom templates and use the **Project** tab in the Custom Settings dialog to set the **Stereoscopic 3D mode** for one template to **Left Only** and the other to **Right Only**. You can then render the files separately or use **Tools > Scripting > Batch Render** to render the left- and right-eye files.

1. From the **File** menu, choose **Render As** to display the Render As dialog.
2. Choose a drive and folder from the **Save in** drop-down list, or use the browse window to locate the folder where you want to save your file.
3. Type a name in the **File name** box, or select a file in the browse window to replace an existing file.
4. Choose a file type from the **Save as Type** drop-down list.
5. Click the **Custom** button to create a new template.
6. In the Custom Settings dialog, click the **Project** tab.
7. From the **Stereoscopic 3D mode** drop-down list, choose the setting that you want to use for rendering your project.

Choose **Use project settings** if you want to use the setting from the **Video** tab in the Project Properties dialog, or choose another mode if you want to override the project setting when rendering.

Setting	Description
<b>Use project settings</b>	Uses the setting from the <b>Video</b> tab in the Project Properties dialog.
<b>Side by side (half)</b>	Choose this setting when your project will contain left- and right-eye views in a single frame. Left- and right-eye views are displayed as half of the available horizontal resolution. <b>YouTube 3D</b> YouTube 3D uses frame-compatible video, so you can use the Upload to YouTube command or create a custom render template using a format that is compatible with YouTube, such as XDCAM EX, Windows Media Video, or MainConcept MPEG-2. For the custom template, set the stereoscopic 3D mode to <b>Side by side (half)</b> and select the <b>Swap Left/Right</b> check box because YouTube 3D defaults to this layout. When you upload your video to YouTube, add <b>yt3d:enable=LR</b> as a tag to enable 3D viewing. Also add <b>yt3d:aspect=16:9</b> (or <b>yt3d:aspect=4:3</b> ) to set the viewing frame aspect ratio. If you use the Upload to YouTube command, the tags are added automatically. <i>For more information, see <a href="#">Upload it to YouTube</a> on page 67.</i> <b>DVD, Blu-ray Disc, and 3D Blu-ray Disc</b> When you burn the timeline to Blu-ray Disc in a stereoscopic 3D project, Vegas Movie Studio HD Platinum will burn a 3D Blu-ray Disc. <i>For more information, see <a href="#">Burn it to a Blu-ray Disc</a> on page 69.</i>
<b>Side by side (full)</b>	Choose this setting when your project will contain left- and right-eye views in a single frame. Left- and right-eye views are displayed using the full horizontal resolution.
<b>Anaglyphic (red/cyan)</b>	Left- and right-eye views use color filters to allow anaglyphic glasses to separate the left- and right-eye views.
<b>Line alternate</b>	Choose this setting when your project will be displayed on a line-alternate 3D monitor. Left- and right-eye views are interlaced using half of the available vertical resolution.
<b>Left only</b> <b>Right only</b>	Choose the <b>Left only</b> or <b>Right only</b> setting if you're creating separate renders for the left- and right-eye outputs.

8. Select the **Swap Left/Right** check box if you need to switch the left- and right-eye pictures. This setting is useful if you're using a line-alternate display that displays the right eye on top or to create cross-eye free-view 3D.

9. Save your template for future use:
  - a. Type a name in the **Template** box to identify your rendering template.
  - b. Click the **Save Template** button .
  - c. Click **OK** to return to the Render As dialog.
10. Click **Save** to render your project using your new template.





## Chapter 6 Recording Audio and Adding Audio Effects

### Recording audio

Vegas® Movie Studio HD Platinum software can record audio into multiple mono or stereo tracks while simultaneously playing back existing audio and video tracks. You are limited only by the performance of your computer system and audio hardware. Audio is recorded to a media file on your computer and into an event on the timeline.

You can record into an empty track, a time selection, an event, or a combination of time and event selection. You can also record multiple takes for an event so you can maintain multiple versions of an event that you can play back and edit.

#### Tips:

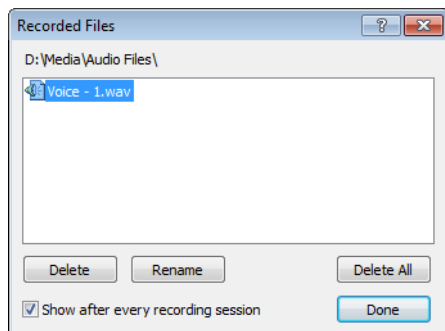
- Select a media bin before recording if you want to automatically add your recorded audio to a media bin.
- To save track effects with your recorded files, create an effects package of the track effect settings and apply the chain to the event as a non-real time event effect.
- Press **Alt+Down Arrow** during playback to move the edit cursor to the playback cursor.

1. Connect an audio source to your sound card's input.
2. Position the cursor where you want to start recording.
3. Select the **Arm for Record** buttons (🔴) on the tracks where you want to record. Arming a track enables it for recording.

When a track is armed, the track meter displays the track's level.

**Tip:** Recorded audio will be saved in the folder specified in the **Recorded files folder** box on the **Folders** tab of the **Project Properties** dialog. If you want to choose a different folder, hold **Shift** while clicking the **Arm for Record** button.

4. Click the **Record** button (🔴) on the transport bar to start recording.
5. To stop recording, click the **Record** button again or click the **Stop** button (⏏) on the transport bar. The **Recorded Files** dialog is displayed.
6. Use the **Recorded Files** dialog to confirm the file name and location of your recorded audio. Click **Delete** or **Delete All** if you do not want to save the recorded files, or click **Rename** to change the file's name.




7. Click **Done** to close the **Recorded Files** dialog. Your recorded file is displayed as a new event in the timeline, and the recorded file is added to the **Project Media** window.

## Adding audio effects

You can use effects to manipulate the audio components of your project.


The included audio plug-ins can improve the quality of the audio in your project or create unique sounds. Vegas Movie Studio HD Platinum software supports additional DirectX and VST effects from a variety of vendors. Audio effects can be applied to all events on a track or to individual events.

**Tip:** Use the VST Effects tab in the Preferences dialog to indicate where the application should search for VST plug-ins and to select which plug-ins you want to use.



For more information about specific audio plug-ins, click the **Plug-In Help** button  in the Audio Plug-In window to display the plug-in's help file.



## Adding audio track effects

From the **Tools** menu, choose **Audio**, and choose **Track FX** from the submenu to apply or edit DirectX or VST plug-ins at the track level. Track-level plug-ins are applied to every event on the selected track.

**Important:** Be aware that using non-in-place plug-ins (such as Time Stretch, Pitch-Shift without preserving duration, and some Vibrato settings) will cause audio to play out of synchronization with the waveform display in the timeline and with other tracks. If an effects chain includes non-in-place plug-ins, the effects chain icon will be displayed in yellow  to indicate that automatic plug-in delay compensation is being used.

## Create a track effects chain

1. Click the **Track FX** button  on the track where you want to add effects. The Audio Plug-In window is displayed. The **Track FX** button is displayed in gray when a track does not have effects assigned. When no effects exist on a track, clicking the **Track FX** button displays the Plug-In Chooser.
2. Click the **Plug-In Chain** button  to display the Plug-In Chooser.
3. Select each plug-in you want to add and click the **Add** button, or browse to an FX package. The plug-ins appear at the top of the window in the order in which you added them.

**Tip:** To reorder the plug-ins within the chain, drag a plug-in button to a new location, or click the **Move Plug-In Left**  or **Move Plug-In Right**  buttons.

4. Once you have added all of the plug-ins and specified the plug-in chain order, click the **OK** button. The Audio Plug-In dialog is displayed to allow you to edit the chain.



## Editing a track effects chain



When you click the **Track FX** button  on a track, the Audio Plug-In window is displayed to enable/bypass effects, edit effect parameters, and add/remove effects from a chain. For more information about the Audio Plug-In window, see the online help.

## Adding audio event effects

From the **Tools** menu, choose **Audio**, and choose **Audio Event FX** from the submenu to apply or edit DirectX or VST plug-ins at the event level. Event-level plug-ins are applied only to the event where they are applied.

### Creating an event effects chain

1. Click the **Event FX** button  on the event where you want to add effects. The Audio Plug-In window is displayed. The Event FX button is displayed in gray when an event does not have effects assigned. When no effects exist on an event, clicking the Event FX button displays the Plug-In Chooser.
2. Click the **Plug-In Chain** button  to display the Plug-In Chooser.
3. Select each plug-in you want to add and click the **Add** button, or browse to an FX package. The plug-ins appear at the top of the window in the order in which you added them.

**Tip:** To reorder the plug-ins within the chain, drag a plug-in button to a new location, or click the **Move Plug-In Left**  or **Move Plug-In Right**  buttons.

4. Once you have added all of the plug-ins and specified the plug-in chain order, click the OK button. The Audio Plug-In dialog is displayed to allow you to edit the chain.

### Editing an event effects chain

When you click the **Event FX** button  on an event, the Audio Plug-In window is displayed to enable/bypass effects, edit effect parameters, and add/remove effects from a chain. *For more information about the Audio Plug-In window, see the online help.*



## Chapter 7 5.1 Surround

To give your projects a more professional feel, you can create your movies with 5.1 surround sound.

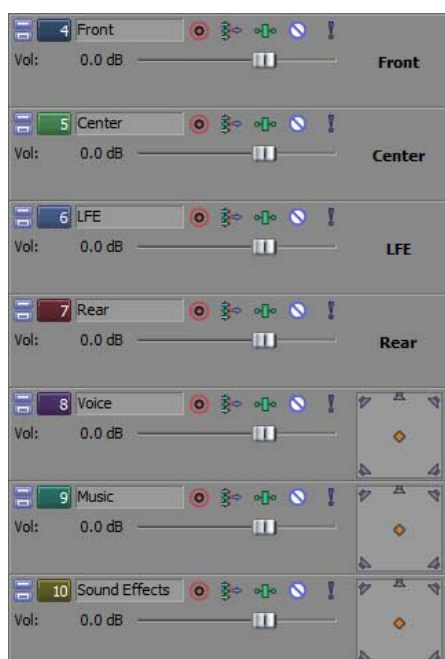
**Tip:** Vegas Movie Studio HD Platinum software can be used to create 5.1 surround audio for DVD Architect Studio projects.

### New Project Wizard

You can set the parameters of a new project, including whether the project is in stereo or 5.1 surround, by completing the New Project Wizard.

1. From the **Project** menu, choose **New**.
2. Use the New Project Wizard to set up your project settings. For the **Audio** setting, select the **5.1 surround** radio button.
3. Click **OK** to close the wizard and create your new project.

In 5.1 surround mode, the following tracks are added to the track list:



The Front track is used for the front-left and -right channels. You can use a pan envelope to pan between the right and left channels.

The Center track is used for the center channel. No panning is available.

The LFE track is used for the low-frequency effects channel (subwoofer). No panning is available.

The Rear track is used for the rear-left and rear-right channels. You can use a pan envelope to pan between the right and left channels.

For the Voice, Music, and Sound Effects tracks, you can use the surround panner in the track header to pan these tracks throughout the soundfield.

In 5.1 surround mode, the Mixer window displays faders you can use to adjust the overall levels of the front, rear, center, and LFE channels.

### 5.1 surround panning

After your project is set up for 5.1 surround sound, you can begin panning.

If you have a joystick, you can use it to control surround panning. A force-feedback joystick such as the Microsoft® SideWinder® Force Feedback 2 joystick can add a tactile element to your editing sessions.

For more information about joysticks, see the online help (from the Vegas Movie Studio HD Platinum **Help** menu, choose **Contents and Index**).

## Assigning tracks to surround channels

Each track can be assigned to the front, center, LFE, or rear channels, or you can pan a track freely within the soundfield.

Right-click the surround panner in the track header and choose a command from the shortcut menu to choose a surround pan mode:

Mode	Function
<b>Surround Pan</b>	Used to pan a track anywhere among the front, center, LFE, or rear channels. Drag the orange pan point in the surround panner to indicate where the track's audio should be sent.  You can use a pan envelope to automate left/right panning (front/rear panning cannot be automated).
<b>Front Only</b>	Used for the front-left and front-right channels. You can use a pan envelope to pan between the right and left channels.
<b>Center Only</b>	Used for the center channel. No panning is available.
<b>LFE Only</b>	Used for the low-frequency effects channel (subwoofer). No panning is available.
<b>Rear Only</b>	Used for the rear-left and rear-right channels. You can use a pan envelope to pan between the right and left channels.

## Panning a track

You can perform surround panning using any of the following methods:

- Assign a track to the front, center, LFE, or rear channels. When a track is assigned to a channel, its audio output is sent to the selected channel. *For more information, see [Assigning tracks to surround channels](#) on page 64.*
- If a track is set to **Front**, **Rear**, or **Surround Pan** mode, you can use a pan envelope to adjust left/right panning. Pan envelopes are not used when a track is set to **Center** or **LFE** mode.
- If a track is not set to **Front**, **Center**, **LFE**, or **Rear** mode, use the surround panner in the track header.

## Panning a track in Surround Pan mode

Drag the orange pan point in the surround panner window to position the sound within the soundfield.



You can drag the orange pan point to any position in the soundfield.

The Voice track is panned near the center.

The Music track is panned to the left-front speaker.

The Sound Effects track is panned to the right-rear speaker.

### Tips:

- Double-click the pan point to reset it to the center listening position.
- Keyboard and mouse shortcuts can help you position the pan point quickly and accurately. *For more information about keyboard shortcuts, see the online help (from the Vegas Movie Studio HD Platinum **Help** menu, choose **Contents and Index**).*

## Automating panning with envelopes

If a track is set to Front, Rear, or Surround Pan mode, you can use a pan envelope to adjust left/right panning.

1. Select the track you want to pan.
2. From the **Insert** menu, choose **Audio Envelopes**, and then choose **Pan** from the submenu.
3. Add points and adjust the envelope set edit panning throughout the track.

The pan envelope is added to the left/right position of the pan point (front/rear panning cannot be automated).

For example, if a track's pan point is set to 10% left and the pan envelope point is set to 10% right, the sound will be played through the center at the envelope point.

For more information about adjusting envelopes, see the online help (from the Vegas Movie Studio HD Platinum **Help** menu, choose **Contents and Index**).

## Changing the pan mode

Right-click the surround panner on a track, choose **Pan Type** from the shortcut menu, and then choose a pan type from the submenu.

For more information about panning modes, see the online help (from the Vegas Movie Studio HD Platinum **Help** menu, choose **Contents and Index**).






## Chapter 8 Saving and Rendering Projects

What do you do after you've added the final touches to your movie and it's ready to be shown to the world? Vegas® Movie Studio HD Platinum software allows you to easily save and render your projects so you can amaze your family and friends.

### Make Movie Wizard

After you've completed your masterpiece, you can use the Make Movie Wizard to save your project in a variety of formats.

**Note:** Opening the Make Movie Wizard is the same for all formats listed below. From the **Project** menu, choose **Make Movie**, or click the **Make Movie** button () on the toolbar.

### Upload it to YouTube

**Important:** This feature requires that you have a YouTube account. If you don't already have an account, you can go to <http://www.youtube.com/signup> to sign up.

1. Click the **Upload it to YouTube** button. The Upload to YouTube dialog is displayed.
2. Type your YouTube username and password in the **YouTube username** and **YouTube password** boxes.

**Tip:** If you have a Gmail address linked with your YouTube account, you can use your Gmail username and password to log in.

3. Type a title to identify your video in the **Title** box.  
The information from the **Title** box on the Summary tab of the Project Properties dialog is used by default.
4. Type a description of your movie in the **Description** box.  
The information from the **Comments** box on the Summary tab of the Project Properties dialog is used by default.
5. Choose a setting from the **Video category** drop-down list. The category you choose is used to classify videos on the YouTube site.
6. Type keywords you want to associate with your movie in the **Tags** box. Use words that relate to your movie and describe its content. These tags will be used when searching YouTube. You can use commas or spaces to separate multiple keywords.

**Note:** If you are uploading a stereoscopic 3D project, Vegas Movie Studio HD Platinum automatically adds the tags needed to enable 3D viewing on YouTube. For more information, see [Rendering a stereoscopic 3D project on page 56](#).

7. Select the **Public** or **Private** radio button to set broadcast options for your movie. Public videos can be seen by any YouTube user; private videos can be seen only by members you specify.
8. Select the **Normal** or **Higher** radio button to set the video quality for your movie. The **Higher** setting creates better-looking video for broadband connections but will take longer to render.  
The estimated file size is displayed at the bottom of the dialog.
9. Select the **Render and upload loop region only** check box if you want to save only the portion of the project that is contained within the loop region. **Loop Playback** does not need to be selected for this option to work.
10. Click the **Upload** button to start uploading your movie to YouTube.  
After your movie has been uploaded, you can click the **Edit Video Info** button to display the My Account page in a browser window, where you can edit the information about your video, or click **Close** to return to the Vegas Movie Studio HD Platinum timeline.

**Note:** Videos you upload to YouTube are transcoded after uploading and are not immediately available. You can visit the My Videos page on the YouTube Web site to check the status of your uploaded videos.

## Share it online

1. Click the **Share it online** button. The Publish Setup dialog is displayed. The Publish Setup dialog is displayed to allow you to select the Web site where you want to share your movie.
2. Select a Web site on the left side of the dialog and follow the instructions to save your movie in a streaming format and upload it to the Web.

## Burn it to a DVD

1. Click the **Burn it to a DVD or Blu-ray Disc** button.
2. Select the **DVD** radio button, and then click **Next**. The Burn DVD dialog is displayed.
3. Choose a setting from the **Video format** drop-down list to specify the parameters that should be used for rendering your video stream.  
The **Audio format** box displays the parameters that should be used for rendering your audio stream.
4. Select recording options for your DVD burner:
  - a. Choose a drive from the **Burn drive** drop-down list to specify the drive you want to use.
  - b. From the **Burn speed** drop-down list, choose the speed at which you want to record. **Max** will record using the fastest speed possible with your drive; decrease the speed if you have difficulty recording.
  - c. Select the **Eject when done** check box if you want to eject the disc automatically when burning has completed.
5. Click **OK** to start rendering your image file and burning your disc.

## Burn it to a DVD with menus

1. Click the **Burn it to a DVD or Blu-ray Disc** button.
2. Select the **DVD with Menus** radio button, and then click **Next**. The Make Movie - Render Settings dialog is displayed.
3. The **Video file path** box displays the path to the file that will be created for the video portion of the project.  
If you want to change the location or file name, edit the contents of the box or click the **Browse** button.
4. The **Audio file path** box displays the path to the file that will be created for the audio portion of the project.  
If you want to change the location or file name, edit the contents of the box or click the **Browse** button.

**Tip:** AC-3 audio may not play back on some PAL DVD players. To ensure compatibility with PAL DVD players, use 48-kHz, 16-bit WAV (PCM) files for audio.

5. Select the **Render loop region only** check box if you only want to render a portion of your project. If the check box is cleared, the entire project will be rendered.
6. Select the **Stretch video to fill output frame size (do not letterbox)** check box if you want to reformat your video so it fills the output frame size listed in the **Description** box. When the check box is cleared, the current aspect ratio is maintained and black borders are added to fill the extra frame area (letterboxing). This option is useful when the desired output format does not match the frame aspect ratio of your project.
7. Select the **Save project as path reference in rendered media** check box if you want to save the path to your project file in the rendered file. Saving the project path allows you to easily return to the source project if you use your rendered file in another project.

**Note:** The project information in the rendered file is a reference to a project file only. If you modify the project file after rendering, the project data will no longer match the rendered file. To edit a project using a path reference, the project file and all media must be available on your computer.

8. Select the **Save project markers in rendered media** check box if you want to embed timeline markers in the rendered media file. Markers can be used to navigate to chapter points on your DVD.
9. Select the **Use widescreen DVD format** check box if you want to render your file in 16:9 widescreen format.
10. Click the **Next** button. The audio and video files for your movie are created.

The settings on the General tab of the Project Properties dialog are used to determine whether your project is rendered using the NTSC or PAL video format.

This process can take anywhere from several minutes to several hours depending on the length of your project.

11. When rendering is complete, a dialog displays the paths to your rendered audio and video files. Click the **Send to DVD Architect Studio** button to start the application and create a new project containing your movie.
12. Use DVD Architect Studio software to create and burn the DVD.  
For more information about using DVD Architect Studio software, please refer to its documentation.

### Burn it to a Blu-ray Disc

1. Click the **Burn it to a DVD or Blu-ray Disc** button.
  2. Select the **Blu-ray Disc** radio button, and then click **Next**. The Burn Blu-ray Disc dialog is displayed.
  3. Select a radio button to choose what you want to do:
    - **Render image and burn**: renders your current project as a Blu-ray compliant file and burns it to disc.
    - **Render image only**: renders your current project as a Blu-ray compliant file that you can burn at a later time.
    - **Burn existing image file**: burns an already-rendered file to Blu-ray Disc.
  4. If you selected the **Render image and burn** or **Render image only** radio button, choose your rendering settings:
    - a. Choose a setting from the **Video format** drop-down list to indicate whether you want to burn AVC/MVC or MPEG-2 video.
    - b. Choose a setting from the **Video template** drop-down list to specify the parameters that should be used for rendering your video stream.  
Video for Blu-ray Discs can use MPEG-2 or AVC encoding. 3D Blu-ray Disc projects use MVC encoding.
      - The Vegas Movie Studio HD Platinum Blu-ray MPEG-2 video templates have an average bit rate of 25 Mbps.
      - The Vegas Movie Studio HD Platinum Blu-ray AVC video templates have an average bit rate of 15 Mbps.
      - The Vegas Movie Studio HD Platinum Blu-ray MVC video templates for stereoscopic 3D projects have an average bit rate of 10 Mbps.
      - If you're burning to DVD media, Vegas Movie Studio HD Platinum provides 8 Mbps AVC and MPEG-2 video templates.
    - c. Choose a setting from the **Audio template** drop-down list to specify the parameters that should be used for rendering your audio stream.  
Wave64 (PCM) audio for Blu-ray Discs can use any of the following formats:
      - 48 kHz, 16 or 24-bit, stereo or 5.1 surround (available only for 5.1 surround projects)
      - 96 kHz, 16 or 24-bit, stereo or 5.1 surround (available only for 5.1 surround projects)
- Important:** *When burning a surround project to DVD, use 48 kHz, 16- or 24-bit audio only.*
- d. Select the **Render loop region only** check box if you want to use only a portion of your project. If the check box is cleared, the entire project will be rendered and saved to the disc.
  - e. Select the **Insert chapter points at markers** check box if you want to use markers from the timeline as chapter points in your rendered file.
  - f. Select the **Stretch video to fill output frame** check box if you want to reformat your video so it fills the output frame size listed in the **Description** box. When the check box is cleared, the current aspect ratio is maintained, and black borders are added to fill the extra frame area (letterbox). This option is useful when the desired output format does not match the frame aspect ratio of your project.
5. If you selected the **Render image and burn** or **Render image only** radio button, the **File path** box displays the folder and file that will be used to render your project.  
If you selected the **Burn existing image file** radio button, type the path to the file you want to burn in the **File path** box (or click the **Browse** button to locate the file).
6. Select recording options for your Blu-ray Disc burner:
  - a. Choose a drive from the **Burn drive** drop-down list to specify the drive you want to use.
  - b. From the **Burn speed** drop-down list, choose the speed at which you want to record. **Max** will record using the fastest speed possible with your drive; decrease the speed if you have difficulty recording.
  - c. Select the **Eject when done** check box if you want to eject the disc automatically when burning has completed.
7. Click **OK** to start rendering your image file and burning your disc.

## Burn it to a Blu-ray Disc with menus

1. Click the **Burn it to a DVD or Blu-ray Disc** button.
2. Select the **Blu-ray Disc with Menus** radio button, and then click Next. The Make Movie - Render Settings dialog is displayed.

**Note:** *The Blu-ray Disc with Menus setting is not available when working with 5.1 surround projects. You can use the Blu-ray Disc setting to burn a 5.1 surround project from the timeline. If you want to use DVD Architect Studio to author a Blu-ray Disc with menus, please use the Audio tab in the Vegas Movie Studio Project Properties dialog to set your project's Master bus mode to Stereo.*

3. The **Video file path** box displays the path to the file that will be created for the video portion of the project. If you want to change the location or file name, edit the contents of the box or click the **Browse** button.
4. The **Audio file path** box displays the path to the file that will be created for the audio portion of the project. If you want to change the location or file name, edit the contents of the box or click the **Browse** button.
5. Select the **Render loop region only** check box if you only want to render a portion of your project. If the check box is cleared, the entire project will be rendered.
6. Select the **Stretch video to fill output frame size (do not letterbox)** check box if you want to reformat your video so it fills the output frame size listed in the **Description** box. When the check box is cleared, the current aspect ratio is maintained and black borders are added to fill the extra frame area (letterboxing). This option is useful when the desired output format does not match the frame aspect ratio of your project.
7. Select the **Save project as path reference in rendered media** check box if you want to save the path to your project file in the rendered file. Saving the project path allows you to easily return to the source project if you use your rendered file in another project.

**Note:** *The project information in the rendered file is a reference to a project file only. If you modify the project file after rendering, the project data will no longer match the rendered file. To edit a project using a path reference, the project file and all media must be available on your computer.*

8. Select the **Save project markers in rendered media** check box if you want to embed timeline markers in the rendered media file. Markers can be used to navigate to chapter points on your Blu-ray Disc project.
9. Click the **Next** button. The audio and video files for your movie are created.  
The settings on the General tab of the Project Properties dialog are used to determine whether your project is rendered using the NTSC or PAL video format.  
This process can take anywhere from several minutes to several hours depending on the length of your project.
10. When rendering is complete, a dialog displays the paths to your rendered audio and video files. Click the **Send to DVD Architect Studio** button to start the application and create a new project containing your movie.
11. Use DVD Architect Studio software to create and burn the Blu-ray Disc.  
For more information about using DVD Architect Studio software, please refer to its documentation.

## Save it to your DV camera

1. If you want to print only a portion of your project, create a time selection that includes the section of your project.
2. In the Make Movie Wizard, click the **Save it to my camera or portable device** button.
3. Select the **DV camera** radio button, and then click Next. The Device Setup dialog is displayed.
4. Use the Device Setup dialog to configure your camera or deck:
  - a. From the **Device** drop-down list, choose OHCI-Compliant IEEE 1394/DV.
  - b. From the **Video** drop-down list, choose the setting that matches your destination format.

**Note:** You'll need to choose a rendering template that inserts pulldown fields to create a standard DV file if your project properties are set to 24p or if you selected the **Allow pulldown removal when opening 24p DV** check box on the General tab of the Preferences dialog. Use the NTSC DV 24p (inserting 2-3-3-2 pulldown) template if you intend to bring the file back into the timeline as source material.

If you cleared the **Allow pulldown removal when opening 24p DV** check box before adding your media and your project properties are not set to 24p, your 24p video is read as 29.97 fps interlaced video (60i), so you can choose whichever NTSC DV or PAL DV template suits your project requirements.

- c. From the **Audio** drop-down list, choose the setting that matches your destination format.
  - d. If necessary, drag the **Record engage delay** slider to specify the number of frames it takes your camera or deck to switch from Record Pause to Record mode. If you're missing frames from the beginning of your file after printing to tape, increase the setting. If you see duplicated frames at the beginning of your video, decrease the setting.
  - e. Click the **Next** button. The Render Settings dialog is displayed.
5. Use the Render Settings dialog to choose the format you want to use to print your video to tape.
    - a. Select the **Enable multichannel mapping** check box if you're working with multichannel source files and need to specify which channels to use in the stereo file when printing to tape. Click the **Channels** button to choose which channels you want to render.

**Note:** Multichannel audio is not supported when printing to a DV device.

- b. Select the **Render loop region only** check box if you want to print only the portion of your project that you selected in step 1.
  - c. Select the **Prerender audio to proxy file** check box if you want to prerender the audio portion of your project before printing to tape.

The **Prerendered files folder** box displays the path to the folder where prerendered files are saved. Video files are saved to this folder so that you don't need to re-render the project every time you view it.

If you want to change the location of the folder, click the **Browse** button and choose a new location. Changing the setting here will update the setting on the Folders tab of the Project Properties dialog.
  - d. Click **Next**. The Leader and Trailer dialog is displayed.
6. Use the Leader and Trailer dialog to set up the data that will be printed before and after your project:
    - a. Select the **Add test pattern leader** check box if you want to print a test pattern before your video.
    - b. From the **Test pattern style** drop-down list, choose a test pattern type and video format.
    - c. Type a value in the **Duration** box to determine the length of the test pattern.
    - d. Select the **Play 1 kHz tone with test pattern** check box to add an audio test tone that will play along with the test pattern.
    - e. Select the **Add black leader** check box and type a value in the **Duration** box if you want to print black frames before your video.
    - f. Select the **Add black trailer** check box and type a value in the **Duration** box if you want to print black frames after your video.
    - g. Click **Next**. The Device Control dialog is displayed.

7. Use the Device Control dialog to indicate whether Vegas Movie Studio HD Platinum will have control of your DV recorder and how you want to print to tape:

Setting	Description
<b>Manual</b>	Select this radio button if the application is unable to obtain device control of your deck. You will need to cue the tape and press the Record button on your deck before recording.
<b>Crash Recording</b>	Select this radio button if the application can perform basic device control of your deck. You will need to cue the tape to the location where you want to begin printing. The device's timecode location is displayed in the <b>Device timecode</b> box. When you click <b>Finish</b> , recording will begin automatically and will stop after reaching the end of the selection or project.
<b>Auto Edit</b>	Select this radio button if your deck supports Auto Edit/Insert Edit mode.  <b>Important:</b> <i>When using Auto Edit mode, use a striped tape to ensure continuous timecode over the portion of the tape where you plan to record.</i>  <ol style="list-style-type: none"> <li>1. Select the <b>Preview only</b> check box if you want to preview your print-to-tape operation without engaging the deck's record head. Use <b>Preview only</b> mode to double-check and adjust your <b>Start printing at</b> timecode setting as needed.</li> <li>2. The <b>Start printing at box</b> displays the current device timecode location. You can cue the tape or type a value to indicate where you want to begin recording. The <b>End at</b> box displays the frame where recording will end (much like punch-in audio recording).</li> <li>3. When you click <b>Next</b>, the Select Channels page is displayed.</li> <li>4. On the Select Channels page, select a radio button to choose which channels you want to print to tape. <ul style="list-style-type: none"> <li>• <b>Write all rendered channels</b> Select this radio button to print video and all audio channels to tape.</li> <li>• <b>Write only selected channels</b> Select this radio button if you want to choose which channels you want to print to tape. Select the check box for each channel you want to print.</li> </ul> </li> </ol>

5. Click **Finish**. If you have not already prerendered, portions of your project that cannot be rendered and printed to tape in real time will be selectively prerendered.
- If you're using **Manual** mode, a dialog will be displayed after rendering is finished. You can specify a delay time in the **Delay playback countdown timer** box and select the **Beep each second during countdown** check box if you want to count down before sending video to your device.
  - If you're using **Crash recording** mode, your DV recorder will start and begin recording after rendering is finished.

### Save it to your HDV camera

1. If you want to print only a portion of your project, create a time selection that includes the section of your project.
2. In the Make Movie Wizard, click the **Save it to my camera or portable device** button.
3. Select the **HDV camera** radio button and **Next**. The HDV Print to Tape - Device page is displayed.
4. Choose your HDV camera or deck from the **Device** drop-down list.
5. Click **Next**. The HDV Print to Tape - Select Format/File page is displayed.

6. Choose render settings:
  - a. Select the **Render format** radio button.
  - b. In the **File path** box, type the path to the file you want to render, or click the **Browse** button to browse to the folder you want to use and then type a file name.
  - c. From the **Template** drop-down list, choose the setting that matches your destination format. This list will include only formats that are supported by the selected device.  
Information about the selected rendering template is displayed in the **Description** box.
  - d. Select the **Render loop region only** check box if you want to print only the portion of your project that you selected in step 1.
  - e. Select the **Delete file after print** check box if you want to delete the rendered file after the print-to-tape operation is finished.
7. Click **Next**. The HDV Print to Tape - Device Control page is displayed.
8. Select the **Manual** or **Crash Recording** radio button to indicate whether Vegas Movie Studio HD Platinum software will have control of your HDV recorder:
  - Select **Manual** if your HDV device is not OHCI-compliant or if the application is unable to obtain device control of your HDV recorder. You will need to cue the tape and press the Record button on your HDV recorder before recording.
  - Select **Crash Recording** if you are using an OHCI-compliant IEEE-1394 HDV device and the application is able to obtain device control of your HDV recorder.  
You will need to cue the tape to the location where you want to begin printing. The device's timecode location is displayed in the **Device timecode** box.  
When you click **Finish**, recording will begin automatically and will stop after reaching the end of the selection or project.
9. Click **Finish**. Your project will be rendered to the file you specified in step 6.
  - If you're using **Manual** mode, a dialog will be displayed after rendering is finished. You can specify a delay time in the **Delay playback countdown timer** box and select the **Beep each second during countdown** check box if you want to count down before sending video to your device.
  - If you're using **Crash Recording** mode, your HDV recorder will start and begin recording after rendering is finished.

#### Save it to your PSP™ (PlayStation®Portable)

1. Click the **Save it to my camera or portable device** button.
2. Select the **PSP™ (PlayStation®Portable)** radio button, and then click **Next**. The Make Movie - PSP Render Settings dialog is displayed.
3. The **Title** box displays the title of your project from the Summary tab of the Project Properties dialog. This title will be displayed on the PSP™ system.  
Editing the title in the Export to PSP™ (PlayStation®Portable) dialog will also update the Project Properties dialog.
4. The **File path** box displays the folder and file name that will be used to render your movie.  
If you want to replace an existing movie, choose its name from the **File path** drop-down list.  
Click the **Refresh** button if you need to rescan the device.
5. Choose a setting from the **Template** drop-down list to specify the settings that will be used to save your file.  
You can choose to encode with QVGA, QVGA widescreen, PSP™ full-screen, or standard-definition NTSC frame aspect.
  - The QVGA settings create 320x240 video, but the widescreen templates use anamorphic widescreen encoding, which is properly decoded on the PSP™ system.
  - The PSP™ full-screen templates create 480x270 video to match the PSP™ screen resolution.
  - The SD NTSC templates create 720x480 video to match a standard-definition NTSC screen.

#### Tips:

- The settings for the selected template are displayed in the **Description** box.
- The 512 Kbps QVGA and PSP™ full-screen templates are useful when you want to minimize file size, and the 896- and 1128- Kbps templates will produce higher-quality video, especially in scenes with high-motion video.

6. Select the **Render loop region only** check box if you only want to render a portion of your project. If the check box is cleared, the entire project will be rendered to a new file.

7. Select the **Stretch video to fill output frame size (do not letterbox)** check box if you want to reformat your video so it fills the output frame size listed in the **Description** box.

When the check box is cleared, the current aspect ratio is maintained and black borders are added to fill the extra frame area (letterboxing). This option is useful when the desired output format does not match the frame aspect ratio of your project.

8. Click OK. Your movie file (<filename>.MP4) and thumbnail file (<filename>.THM) are created and transferred to the appropriate folder on the PSP™ system.

### Save it to your hard drive

1. Click the **Save it to my hard drive** button. The Render As dialog is displayed.
2. Choose your render settings in the **Render As** dialog and click the **Render** button. *For more information, see [Rendering projects on page 75](#).*
3. When rendering is complete, click the **Open** button to play the file with its associated player, or click **Open Folder** to open the folder where you saved the file.



## Rendering projects

Rendering refers to the process of creating a new media file from a Vegas Movie Studio HD Platinum project. The project file is not affected (overwritten, deleted, or altered) during the rendering process. You can return to the original project to make edits or adjustments and render it again.

To create a media file (files containing only audio or video, or both audio and video), you render the project into an appropriate media file output. The final output format depends on the destination of the new media file.

1. From the **Project** menu, choose **Render As** to display the Render As dialog.
2. Use the Output File controls to choose where you want to save your file:
  - a. The **Folder** box displays the path to the folder where your file will be saved. Click the down arrow to choose a recently used folder, or click the **Browse** button to specify a new folder.
  - b. Type a name in the **Name** box, or click the **Browse** button and select a file in the browse window to replace an existing file.
3. Use the Output Format controls to choose the type of file you want to create.

The Output Format box displays the file types and formats you can use to render your file. You can double-click headings (or click the arrow buttons) to expand or collapse lists of available templates. Click a template to select it and use that format for rendering, or select a template and click the **Customize Template** button to modify the template's settings. *For more information about custom rendering templates, see the online help.*

### Tips:

- You can type in the **Search render templates** box to find templates. For example, if you wanted to render a video for a PSP™ (PlayStation® Portable) system, you could type "PSP" in the box to display only templates that include the term "PSP" in the template name or description.
- If you have templates that you use often, you can create favorites. Click the gray star next to a template name to mark that template as a favorite. You can then select the **Show favorites only** check box to display only your favorites in the Render As dialog.
- Templates that match your project settings (frame size, pixel aspect ratio, and frame rate), are displayed with an equal sign (=) in the template list. If you want to display only templates that match your project settings, select the **Match project settings** check box.
- For even more control over the template list, click **More filter options**. You can display audio/video templates or match your project's audio channel count, sample rate, frame rate, frame size, aspect ratio, or field order.
- To create a 5.1 surround audio stream for your DVD, render your audio using the **Dolby Digital AC-3 Studio plug-in with the 5.1 Surround DVD or 5.1 Surround DVD, AGC on template**.

4. Select or clear the check boxes in the Render Options section as needed:
  - a. Select the **Render loop region only** check box if you want to save only the portion of the project that is contained within the loop region. **Loop Playback** does not need to be selected for this option to work.
  - b. Select the **Stretch video to fill output frame size (do not letterbox)** check box when you are rendering to an output format with a slightly different aspect ratio than your project settings. This will prevent black bars from appearing on the top and bottom or the sides of the output.
5. Use the Metadata Options controls to whether information about your project is saved with the rendered media file:
  - a. If the selected file type supports it, you can select the **Save project markers in rendered media file** check box to include markers, regions, and command markers in the rendered media file.
  - b. Select the **Save project as path reference in rendered media file** check box if you want to save the path to your Vegas Movie Studio HD Platinum project in the rendered file. Saving the project path allows you to easily return to the source project if you use your rendered file in another project.

### Notes:

- The project information in the rendered file is a reference to a project file only. If you modify the project file after rendering, the project data will no longer match the rendered file. To edit a project using a path reference, the project file and all media must be available on your computer.
- The check box will be unavailable if you haven't saved your project or if you're rendering using a third-party file-format plug-in.

6. Click the **Render** button. A dialog is displayed to show rendering progress.
7. When rendering is complete, click the **Open** button to play the file with its associated player, or click **Open Folder** to open the folder where you saved the file.

**Tip:** For an easy way to render and deliver your final movie, try the *Make Movie Wizard*. From the **Project** menu, choose **Make Movie**. For more information, see [Make Movie Wizard](#) on page 67.

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