

XVI. Saving and Recording movies

The Save Movie Wizard lets you quickly save your project as a final movie. The timing, layout, and contents of the project are saved as one complete movie. You can save and store the movie on your computer or on a recordable CD, or you can send it as an attachment in an e-mail message or to a video hosting provider on the Web. In addition to these choices, you can choose to record your movie to a tape in a DV camera.

This page of the Save Movie Wizard lets you select which movie saving option you want to use, depending on what you want to do with the final movie. The following options appear on this page.

My computer

Specifies that you want to save your movie to your local computer or to a shared network location.

Recordable CD

Specifies that you want to save your movie to a recordable or rewriteable CD (CD-R or CD-RW). Choose this option if you have a rewriteable or recordable CD drive attached to your computer and you want to save your final movie to a recordable or rewriteable CD.

E-mail

Specifies that you want to save your movie as an attachment to send in an e-mail message. Choose the option to share smaller movies with others by sending them in e-mail by using your default e-mail program.

The Web

Specifies that you want to save your movie and then send it to a video hosting provider on the Web. A video hosting provider is a third-party provider on the Web that provides a Web server location and hosts the movies you save in Windows Movie Maker. Choose

this option if you want to save your movie so family and friends can watch your movie on the Web.

DV camera

Specifies that you want to send your movie to a tape in your DV camera. This option is available when you have a DV camera connected to an [IEEE 1394](#) port. Choose this option if you want to save your movie to a tape so you and others can watch it on the DV camera or on a TV (when you connect the camera to a TV).

Saving a movie to My computer

The **My computer** saving option lets you save your movie for playback on your local computer. When you select this option, the final movie is stored in the specified location on your computer or on a shared network location.

If you click the **My computer** option, the Save Movie Wizard proceeds as follows.

1. Specify a movie file name and place for your movie to be saved. For more information about choosing a saving destination, see [Naming the saved movie file](#).
2. Choose a movie setting for saving your movie. For more information about choosing the appropriate movie setting when saving a movie, see [Choosing a movie setting](#).
3. Wait for your movie to be saved. For more information about monitoring the saving progress of your movie, see [Saving your movie for local playback](#).
4. Complete the Save Movie Wizard. For more information, see [Completing the Save Movie Wizard when saving to My computer](#).

To save a movie on your computer

1. On the **File** menu, click **Save Movie File**, and then click **My computer**.

–or–

In the Movie Tasks pane, under **Finish Movie**, click **Save to my computer**.

2. In the **Enter a file name for your saved movie** box, type a name for your movie.
3. In the **Choose a place to save your movie** box, do one of the following:

- Choose the path and folder name from the list of available places in the drop-down box.
 - Click **Browse** to choose a new place that is not already listed in the drop-down box.
 - To create a new folder, click **Make New Folder** in the **Browse For File** dialog box, and then type a name for the new folder.
4. On the **Movie Setting** page, do one of the following:
 - To use the default movie setting, click **Best quality for playback on my computer (recommended)**. The specific setting details, such as the file type, bit rate, display size, aspect ratio, and frames per second displayed in the video, are shown in the **Setting details** area.
 - To use a different movie setting, click **Show more choices**, and then choose another movie setting from the list.
 5. If you want to watch your movie after completing the wizard, select the **Play movie when I click Finish** check box.
 6. After the movie is saved, click **Finish**.

Saving your movie for local playback

This page of the wizard indicates the saving progress of your movie when you choose to save your movie to your computer. The amount of time the movie takes to save depends on a few factors related to your movie and your computer.

- **Length of your movie.** The time it takes for your movie to be saved increases in proportion to the length of your movie. For example, a movie that is only one or two minutes long takes less time to save than a movie that is 15 minutes long (assuming the same movie setting is selected for both). Therefore, if you have a movie that is an hour in length, the amount of time it takes to save the movie can be significant.
- **Movie setting.** The time it takes for your movie to be saved also increases if you choose a higher quality setting for saving your movie. For example, it takes less time to save a movie with a movie setting that displays the video at 160x120 pixels than to save the same movie with a movie setting that displays the video at 640x480 pixels (at the same [bit rate](#)).
- **System resources of your computer.** The amount of time it takes to save a movie also depends on the processor speed and other system resources on your computer. Other system resources that can also affect the time it takes to save a movie include the amount of RAM on your computer and the speed of your hard

disk. For example, assuming other system specifications on your computer are equal and the same movie setting is selected, it will take longer to save movie on a computer that has a processor speed of 600 megahertz (MHz) than on a computer with a processor speed of 1.5 gigahertz (GHz) or more.

Completing the Save Movie Wizard when saving to My computer

This page of the Save Movie Wizard lets you complete and close the wizard.

The following option appears on this page.

Play movie when I click Finish

Specifies whether the final movie plays in your default player after you click **Finish**. For example, if your default player is Windows Media Player and you select this check box, the Player will start automatically and you can watch your movie.

Troubleshooting saving a movie to My computer

Movie file exceeds the FAT32 4-gigabyte size limit

The movie file created when you are saving your movie on your computer exceeds the 4-gigabyte (GB) file size limit supported by the FAT32 file system. This message occurs if you are saving a longer movie file at a higher quality setting on a volume or partition that is using the FAT32 file system. The file system is used by MS-DOS and other Windows-based operating system to organize and manage files.

To address this issue, do one or more of the following:

- Reduce the length of your movie by removing items from the storyboard/timeline in Windows Movie Maker.
- Choose a lower movie setting when saving your movie.
- If your computer hard disk has multiple partitions, and one is formatted using the NTFS file system, go back in the Save Movie Wizard, and then save your movie to that partition. The NTFS file system supports files larger than 4 GB.

- If you are saving your movie to tape and you have multiple partitions on your hard disk, and one partition is formatted using the NTFS file system, specify this drive as the temporary storage location in the **Options** dialog in Windows Movie Maker (on the **Tools** menu, click **Options**).
- Convert your file system to use the NTFS file system. The NTFS file system supports files larger than 4 GB.

For more information about converting a volume to use NTFS, see the topic "To convert a volume to NTFS from the command prompt" in Windows Help and Support.

Not enough disk available free disk space

There is not enough free disk space available to save your movie. This occurs when the movie file size exceeds the amount of free disk space that is available.

To address this issue, do one or more of the following:

- Reduce the length of your movie by removing items from the storyboard/timeline in Windows Movie Maker.
- Choose a lower movie setting when saving your movie.
- Save the movie to a location that has more available disk space.

Movie file saving destination does not exist

The specified destination for the saved movie file does not exist. This can occur if you chose to save the movie to a removable storage drive and the drive is disconnected or not available. This issue may also occur if you chose to save your movie to a network drive and that destination is not available.

To address this issue, do one or more of the following:

- If you specified a removable storage drive as the saving destination, verify that the device is properly connected to your computer and that the drive or removable media is still available.
- If you specified a network drive as the saving location, make sure that the network cable for your computer is attached properly and that the networked computer to which you are saving your movie to is still available.
- Specify a saving destination on your computer hard disk.

Source files for movie not found

One or more source files cannot be found. Therefore, the movie cannot be saved successfully. This can occur if you try to save a movie after one or more of the source files for the corresponding clips in your project have been moved, renamed, or deleted.

To address this issue, do one or more of the following:

- Locate the original source file, and move or copy it to the location on your computer when it was first imported into Windows Movie Maker.
- Verify that any network locations are still available if the source file was originally located on a shared network location when it was first imported into Windows Movie Maker.

Saving a movie to a recordable CD

The **Recordable CD** saving option lets you save your movie for playback on a recordable or rewriteable CD (CD-R or CD-RW). When this option is selected, the final movie is saved to a recordable or rewriteable CD in the Save Movie Wizard.

In Windows Movie Maker, movies saved to a recordable CD are saved by using Microsoft HighMAT™ technology. A HighMAT (High-performance Media Access Technology) CD can contain audio, video, and pictures. HighMAT-compatible consumer electronic devices recognize how the content is organized on the CD, and enable users to play content using the displayed menus. The recordable CD can be played back on a computer as well. For more information about HighMAT, see the [Microsoft Web site](#). Consumer electronic devices that can play back HighMAT CDs created in Windows Movie Maker have the following logo.



You can choose to save one or more movies to a recordable CD, which typically holds up to 650 MB. Therefore, you may have one large movie or several smaller movies on the same CD. You can save several movies to the same recordable or rewriteable CD at different times. This lets you add more movies to a recordable CD as you create and save more movies at different times in Windows Movie Maker

If you click the **Recordable CD** option, the Save Movie Wizard proceeds as follows.

1. Specify a movie file name and CD name. For more information about entering a movie file and CD name, see [Naming the saved movie file](#).
2. Choose a setting for saving your movie. For more information about choosing the appropriate setting when saving a movie to a recordable CD, see [Choosing a movie setting](#).
3. Wait for your movie to be saved. For more information about monitoring the progress for saving a movie to a recordable CD, see [Saving a movie for playback on a recordable CD](#).
4. Complete the Save Movie Wizard. For more information, see [Completing the Save Movie Wizard when saving a movie to a recordable CD](#).

To save a movie to a CD-R or CD-RW

1. On the **File** menu, click **Save Movie File**, and then click **Recordable CD**.

–or–

In the Movie Tasks pane, under **Finish Movie**, click **Save to CD**.

2. In the **Enter a file name for your saved movie** box, type a name for your movie.
3. In the **Enter a name for the CD** box, type a name for the CD.
4. On the **Movie Setting** page, do one of the following:
 - To use the default movie setting, click **Best quality for recordable CD (recommended)**. The specific setting details, such as the file type, bit rate, display size, aspect ratio, and frames per second displayed in the video, are shown in the **Setting details** area.
 - To use a different movie setting, click **Show more choices**, and then choose another movie setting from the list.
5. To save the movie to another recordable CD, select the **Save this movie to another recordable CD**. Replace the recordable CD with another, and then repeat steps 2 through 4.
6. If the CD is not ejected automatically from the recordable CD drive, press the eject button on the recordable CD drive.

Saving a movie for playback on a recordable CD

This page of the wizard indicates the saving and copying progress of your movie when you choose to save your movie to a recordable CD. The amount of time the movie takes to be saved and copied depends on a few factors related to your movie, computer, and recordable CD drive.

- **Length of your movie.** The time it takes for your movie to be saved increases in proportion to the length of your movie. For example, a movie that is only one or two minutes long takes less time to save than a movie that is 15 minutes long (assuming the same movie setting is selected for both). Therefore, if you have a movie that is an hour in length, the amount of time it takes to save the movie can be significant.
- **Movie setting.** The time it takes for your movie to be saved also increases if you choose a higher quality setting for saving your movie. For example, it takes less time to save a movie with a movie setting that displays the video at 160x120 pixels than to save the same movie with a movie setting that displays the video at 640x480 pixels (at the same [bit rate](#)).
- **System resources of your computer.** The amount of time it takes to save a movie also depends on the processor speed and other system resources on your computer. Other system resources that can also affect the time it takes to save a movie include the amount of RAM on your computer and the speed of your hard disk. For example, assuming other system specifications on your computer are equal and the same movie setting is selected, it will take longer to save movie on a computer that has a processor speed of 600 megahertz (MHz) than on a computer with a processor speed of 1.5 gigahertz (GHz) or more.
- **Recording and writing speed of your recordable CD drive.** The amount of time it takes to write your movie to the recordable CD after the movie has been saved depends on the speed of your CD recorder.

Completing the Save Movie Wizard when saving a movie to a recordable CD

This page of the Save Movie Wizard lets you complete and close the wizard. For a majority of recordable CD drives, the CD is ejected automatically after you click **Finish** to close the wizard.

The following option appears on this page.

Save this movie to another recordable CD

Click to save a copy of your movie on another CD. When saving to a recordable CD, this option is cleared by default. By selecting this check box, you can choose to repeat the steps in the Save Movie Wizard to save the movie to a different CD.

Troubleshooting saving a movie to a recordable CD

Recordable CD drive not detected

A recordable CD drive was not detected on your computer. This error occurs when you try to save your movie to a recordable CD drive that cannot be found.

To address this issue, do one or more of the following:

- Verify that the recordable CD drive is connected properly to your computer, powered on, and that any necessary software drivers are installed.
- If you have an external recordable CD drive, restart the CD drive.

To restart an external CD drive, do the following:

1. Close the Save Movie Wizard, save any changes to your project, and then close Windows Movie Maker.
 2. Double-click the **Safely Remove Hardware** icon (which appears in the lower right hand corner of the screen by default on the System Tray), select the recordable CD drive, and then click **Stop**.
 3. Choose the recordable CD drive in the **Stop a Hardware Device** dialog box, and then click **Close** in the **Safely Remove Hardware** dialog box.
 4. Turn the recordable CD drive off, and then turn it on again.
 5. Start Windows Movie Maker and try saving your movie to the recordable CD again.
- Verify that the CD in the recordable CD drive is a new, blank CD-R or CD-RW disc.
 - End the Imapi.exe process in Windows Task Manager or restart Windows.

To stop the imapi.exe process, do the following:

1. Close the Save Movie Wizard, save any changes to your project, and then close Windows Movie Maker.

2. To open Windows Task Manager, right-click an empty space on the taskbar, and then click **Task Manager**.
3. In the **Windows Task Manager** dialog box, select the **Processes** tab, select the process **imapi.exe**, and then click **End Process**.
4. Close Windows Task Manager.
5. Start Windows Movie Maker, open the saved project, and then try saving your movie to a recordable CD again using the Save Movie Wizard.

Note

- To see and end the imapi.exe process in Windows Task Manager, you must have the appropriate Administrator permissions. If your login account does not have Administrator permissions, you cannot end the process. In this situation, close Windows Movie Maker, restart Windows, and then try saving your movie to a recordable CD again.

Recordable CD drive not enabled for recording CDs

CD recording for your recordable CD drive has been disabled. This error occurs if the **Enable CD recording on this drive** check box has been cleared for the CD recorder drive properties.

To address this issue, do one of the following:

- Contact your system administrator to enable CD recording on the recordable CD drive, and then try saving the movie to a recordable CD again.
- If your login account has Administrator permissions, do the following:
 1. Close the Save Movie Wizard, save any changes to your project, and then close Windows Movie Maker.
 2. Open My Computer.
 3. Select the recordable CD drive.
 4. On the **File** menu, click **Properties**.
 5. In the **Properties** dialog box, click the **Recording** tab, and then select the **Enable CD recording on this drive** check box. Click **OK**.
 6. Start Windows Movie Maker, open the saved project, and then try saving your movie to a recordable CD again.

Permission denied for recording CDs

You do not have the required permissions to copy to a recordable CD. This error occurs if the **Remove CD Burning features** setting is set to Enabled by the system

administrator in Group Policy. This is done by some companies or organizations to increase security.

To correct this problem, do one the following:

- Contact your system administrator to set the appropriate permissions that enable you to copy to a recordable CD, and then try saving the movie to a recordable CD again.

Note

- To see and make changes in Group Policy, you must have the appropriate Administrator permissions.

No recordable CD

A recordable or rewriteable CD is not inserted in the recordable CD drive. This error occurs if a recordable CD is not inserted in the recordable CD. To correct this problem, insert a recordable or rewriteable CD that your movie can be saved to, and then continue saving your movie.

CD is not recordable or rewriteable

The CD in the recordable CD drive is not recordable or rewriteable. This error occurs is the CD in the recordable CD drive is not a recordable (CD-R) or rewriteable (CD-RW) CD.

To correct this problem, do the following:

1. Remove the current CD from the recordable CD drive.
2. Insert a recordable (CD-R) or rewriteable (CD-RW) CD in the recordable CD drive (depending on your recordable CD drive).
3. Continue saving your movie in the Save Movie Wizard.

Recording a movie to a DV camera

The **DV Camera** saving option lets you record the movie you create to a tape in a DV camera through Windows Movie Maker. This lets you or others watch the final movie on a DV camera or on TV when you connect the camera to a TV. When you choose this option, the movie is recorded to the tape in your DV camera, so it appears on the tape with existing video you might have recorded back to tape or recorded with your DV camera.

To record your movie to tape, your DV camera needs to be in the playback mode (often labeled VCR or VTR on your camera).

If you click the **DV Camera** saving option, the Save Movie Wizard proceeds as follows.

1. If you have more than one DV device connected to your computer and powered on, select the DV device on the **DV Camera** page that contains the tape that you want to record your movie to. For more information about choosing a DV device, see [Choosing a DV device](#).
2. Set your camera to playback mode, and then rewind or fast-forward the tape to the point where you want your movie to be recorded. For more information about cuing your tape, see [Cuing your tape](#).
3. Wait for your movie to be created and then recorded to tape. For more information about recording a movie to tape, see [Recording to tape](#).
4. Complete the Save Movie Wizard. For more information, see [Completing the Save Movie Wizard when recording to tape](#).

Note

- In addition to recording a movie to tape in a DV camera, you can also record movies to a tape in a Sony Digital8 Handycam or Hi8 Handycam cameras.

To record a movie back to tape

1. Switch your DV camera on and verify that it is in playback mode (often labeled VCR on the camera).
2. On the **File** menu, click **Save Movie File**, and then click **DV camera**.

–or–

In the Movie Tasks pane, under **Finish Movie**, click **Send to DV camera**.

3. If you have more than one DV device powered on and detected by Windows Movie Maker, on the **DV Camera** page, choose the DV device that contains the tape you want to record your movie to.
4. On the **Cue Your Tape** page, using the transport controls on your camera, rewind or fast-forward the tape to the point where you want your movie to be recorded.



Caution

- You should verify that you are not overwriting a portion of the tape that contains content you want to keep.
5. In the **Windows Movie Maker** dialog box, click **Yes** to continue in the wizard.

Wait for your movie to be created and recorded to tape. The time it takes to create and record the movie to tape depends on the length of the movie and the system resources on your computer. You can preview the movie in the LCD display of your DV camera as your movie is recorded to tape.

6. On the **Completing the Save Movie Wizard** page, click **Finish**.

To copy a movie on DV tape to an analog tape

1. Connect your DV camera to your VCR, often by using one of the following configurations:
 - **Composite (RCA) inputs.** Connect the DV camera and VCR through a connection that uses RCA-style connectors. The composite Video and Audio Out (many times this is one input on a DV camera) are connected to the composite Video In input (which is yellow) and Audio In left and right inputs (which are white and red, respectively) on the VCR. Many times, these inputs are located on the front of many VCRs today.
 - **S-video.** Connect the DV camera and VCR through a connection that uses RCA-style connectors for the audio and S-video for the video. The right and left Audio Out input (many times, this is one input) are connected to the Audio In left and right inputs (which are white and red respectively) on the VCR while an S-video cable is connected to the DV camera and VCR to record the video (if your VCR has an S-video connector).
2. Using the transport controls on the DV camera, fast-forward or rewind to the point of the tape where you want to begin recording to the tape in the VCR.

3. Using the transport controls on the VCR, fast-forward or rewind to the point of the tape where you want to begin recording the content from the DV camera to the tape in the VCR.



Caution

- Make sure the tape in the VCR does not contain any video you want to save. It will be overwritten with the content on the DV tape.
4. Set the VCR to record from the appropriate video and audio inputs. For complete information about recording from the appropriate input, see the documentation provided with your VCR.
 5. Press Record on the VCR to begin recording.
 6. Press Play on the DV camera to begin playing back the movie.
 7. Press Stop on the VCR to stop recording.
 8. Press Stop on the DV camera to stop playback.

Note

- Using this configuration lets you share your movies with others and watch the movie on a TV. The configuration you use to connect your DV camera to your VCR depends on your specific camera and VCR. Many VCR manuals contain specific information about how to connect a VCR to a video camera

Choosing a DV device

This page of the Save Movie Wizard only appears if you have two or more DV devices powered on and detected by Windows Movie Maker after clicking the **DV camera** option to record your movie to tape. You can then choose the DV device that contains the tape you want to record your movie to.

Cuing your tape

This page of the Save Movie Wizard prompts you to cue your tape to the point you want to start recording your movie. You can use the transport controls on your DV camera to do this.



Caution

- Before you begin recording, make sure the tape or part of the tape you want to record your movie to do not contain any video that you want to save. When recording to tape, the existing video and audio content on the tape is overwritten and lost, and the video and audio of the movie you created in Windows Movie Maker appears on the tape.

Recording to tape

This page of the Save Movie Wizard indicates the progress of recording your movie to the tape in your DV camera. During this part of the process, Windows Movie Maker creates a temporary movie file and then records the movie to the tape. You can watch the progress of the movie as it is recorded to tape on the LCD display of your camera as the movie is recording to tape.

Note

- After your movie is created and recorded to the tape, the temporary movie file is deleted automatically. If you want to save a copy of your movie on your computer as well, restart the Save Movie Wizard after your movie is recorded to the tape, and then choose the **My computer** saving option. For more information about saving your movie to the hard disk on your computer, see [Saving a movie to My computer](#).

Completing the Save Movie Wizard when recording to tape

This page of the Save Movie Wizard lets you complete and close the wizard.

Troubleshooting recording a movie to DV tape

No DV device found

A DV device, such a DV camera, was not detected on your computer so your movie cannot be recorded to tape. You may encounter this error for the following reasons.

- The DV camera is not powered on.
- The DV camera went into standby mode. Some DV cameras will go into standby mode if the DV camera is in the record (Camera) mode with a tape in it and no video or audio is sent to or from the camera.

To fix the problem, do one or more of the following, and then try again:

- Verify that the DV device is connected properly to your computer using an [IEEE 1394](#) cable.
- Verify that the DV camera is powered on and in playback mode.
- Switch the DV camera off and then on again to playback mode.

DV camera does not support DV In

Your DV camera does not support DV In. You may encounter this error if your DV camera does not support DV In, which means that captured video cannot be sent from a computer or other device to the DV camera.

Check the documentation for your DV camera to see if DV In is supported for your camera.

Switch DV camera to VCR mode

The DV camera needs to be in playback (usually labeled VCR or VTR on the camera) mode to record your movie from your computer to DV tape.

The following illustration shows a typical control on a DV camera that is used to switch the camera between camera mode and playback mode.



To fix the problem, do one or more of the following, and then try again:

- Verify that the DV camera is powered on and in playback mode.
- Verify that the DV device is connected properly to your computer using an [IEEE 1394](#) cable.
- Switch the DV camera off for a few seconds and then on again to playback mode.

No tape in DV camera

Your movie cannot be recorded to tape because there is no tape in your DV camera.

To fix this problem, insert a writeable DV tape into the camera, and then try to record your movie to tape again.

DV tape is write-protected

The tape in your DV camera is write-protected and your movie cannot be recorded to it.

The following illustration shows a DV tape with write-protection removed so a movie can be recorded to the tape.



To fix the problem and record your movie to tape, do the following:

1. Eject the tape from your DV camera.
2. Move the write-protection tab on the tape from SAVE to REC.
3. Insert the tape in the DV camera.
4. Make sure the tape does not contain any video you want to save, and then try recording to tape again.

First seconds of movie recorded to tape are missing

The first few seconds of your movie may not be recorded successfully to tape. This problem occurs if a DV camera does not start quickly enough when recording a movie to tape in Windows Movie Maker. In this situation, Windows Movie Maker begins sending the video to the camera before the camera is ready to begin recording to tape. This causes the first few seconds of the movie to not be recorded correctly.

To work around this issue, do the following:

1. Click **Start**, point to **All Programs**, point to **Accessories**, and then click **Paint**.
2. On the **Image** menu, click **Attributes**.
3. In the **Units** area, click **Pixels**.
4. In the **Width** box, type **320**. In the **Height** box, type **240**.
5. In the toolbox, click **Fill With Color**, and then choose black as the fill color.

6. On the **File** menu, click **Save**. In the **File name** box, type a name for your image, and then click **Save**.
7. Open Windows Movie Maker, import the picture you just created and add it to the beginning of the storyboard/timeline so it appears for a few seconds in your movie.
8. Record your movie back to tape by choosing the **DV camera** option in the Save Movie Wizard.

When your movie is recorded back to tape, the first few frames of missing video on the tape will be blank, black frames and the movie on the tape should begin with the actual content of your movie.

Entire movie may not fit on tape if recording in SP mode

The entire movie may not fit on the tape if you are recording in SP mode. This message occurs if the video or audio on the storyboard/timeline is longer in duration, such as greater than 90 minutes.

When recording your movie to DV tape, there are basic recording modes that determine the amount of video you can record to a DV tape. The two basic recording modes are SP and LP. When recording in SP mode, the tape speed is faster when compared to recording in LP mode. Though the quality of the recorded video is increased, the amount of video and audio that can be recorded to the tape is decreased.

To fix the problem, do one or more of the following:

- Reduce the length of your movie by removing items from the storyboard/timeline in Windows Movie Maker.
- On the DV camera, set the record mode to LP. For more information about switching the recording mode on your DV camera to LP, see the documentation associated with your DV camera.

Temporary movie file exceeds the FAT32 4-gigabyte size limit

The temporary movie file created when you are recording your movie to tape on a DV camera (or movie file saved on your computer when choosing a different movie location) exceed the 4-gigabyte (GB) file size limit supported by the FAT32 file system. This message occurs if you are saving a longer movie file at a higher quality setting, such as when you save a movie as a DV-AVI file and when you choose to record your movie to tape, on a volume or partition that is using the FAT32 file system. The file

system is used by MS-DOS and other Windows-based operating system to organize and manage files.

To fix this problem, do one or more of the following:

- Reduce the length of your movie by removing items from the storyboard/timeline in Windows Movie Maker.
- If your computer hard disk has multiple partitions, and one is formatted using the NTFS file system, go back in the Save Movie Wizard, and then save your movie to that partition.
- If you are saving your movie to tape and you have multiple partitions on your hard disk, and one partition is formatted using the NTFS file system, specify this drive as the temporary storage location in the **Options** dialog box in Windows Movie Maker (on the **Tools** menu, click **Options**).
- Convert your file system to use the NTFS file system which does not have a file size limit.

To fix this issue, do the following:

1. Save your current project in Windows Movie Maker and then close Windows Movie Maker.
2. Close any open applications.
3. Convert your file system to use the NTFS file system. For more information about converting a volume to use NTFS, see the topic “To convert a volume to NTFS from the command prompt” in Windows Help and Support.

Naming the saved movie file

This page of the Save Movie Wizard provides information about where you want to save your movie. This page appears when you choose either the **My computer**, **Recordable CD**, or **The Web** saving option.

The following options appear on this page.

Enter a file name for your saved movie

Provides a space for you to enter a file name for your movie. The maximum number of characters for the file name is 64.

When naming and saving a movie you are going to send in an e-mail message or to the Web, use the characters A through Z (uppercase or lowercase), the numbers 0 through 9, and the period (.) in the movie file name. Some Web servers and proxy servers can only understand these characters.

The following characters cannot be used in the movie file name: < > * ? / \ | ; = + [] () " :

Choose a place to save your movie

Specifies the location to which you want to save your movie. This option appears when you choose the **My computer** saving option. To change the place the movie is saved to, either click one of the places in the drop-down box or click the **Browse** button, and then choose the new place for the saved movie in the resulting dialog box. The destination you can select is specified in the following ways.

If you chose the **My computer** saving option and want to save the movie to your hard disk, the format *Drive:\FolderName*, where *Drive* is a drive on your computer and *FolderName* is a name of a folder on the specified drive is used. If the path and folder is not listed in the drop-down box, you can click **Browse** to find a folder or create a folder.

For example, if you want to save your movie to a folder named Movies on your drive C, you would select C:\Movies.

If you chose the **My computer** saving option and you want to save the movie to a shared computer, the format *\\Servername\Sharedfolder*, where *Servername* is the name of the shared computer, and *Sharedfolder* is the name of the shared folder is used.

For example, if the shared computer named SharedComputer has a shared folder named SavedMovies, you would select \\SharedComputer\SavedMovies.

Enter a name for the CD

Provides a space for you to enter a name for the CD. This option appears when you choose the **Recordable CD** saving option.

The name of the CD helps to identify the CD. This name appears in Windows Explorer or My Computer when the final CD is loaded into a CD-ROM drive. The maximum number of characters for the CD name is 16.

By default, the name of the CD is first entered automatically according to file name you enter for the saved movie. However, you can edit the name for the CD as well.

Choosing a movie setting

This page of the Save Movie Wizard lets you choose what settings you want to use when saving your movie using the My computer or Recordable CD movie setting. The movie setting you choose determines the quality and file size of the saved movie file. As the video display size and video [bit rate](#) increase with higher movie settings, so does the file size. Likewise, a higher movie setting and bit rate results in a larger file size. When choosing the movie setting, consider file size along with how you plan to share your saved movie.

The following is a listing of the options displayed on this page of the Save Movie Wizard.

Best quality for playback on my computer (recommended)

Specifies that you want to save your movie at the recommended movie setting. This movie setting encodes the video at a higher quality setting. The specific movie setting that is selected is determined by the original quality of the video and audio content on the storyboard/timeline. This option appears when you choose the **My computer** saving option.

This setting is well-suited for a majority of the movies you save to your computer.

Best fit for recordable CD (recommended)

Specifies that you want to save your movie to a recordable CD at the recommended movie setting. This movie setting encodes the video at a higher quality setting. The specific movie setting that is selected is determined by the original quality of the video and audio content on the storyboard/timeline, as well as by the amount of available space on the recordable CD and in the specified temporary storage location. This option appears when you choose the **Recordable CD** saving option.

This setting is well-suited for a majority of the movies you save to a recordable CD.

Show more choices

Click to see additional movie settings.

Best fit to file size

Specifies that the saved movie should fit to a specified file size. When this option is selected, the settings that are used for saving the movie are determined by Windows Movie Maker. The movie is then saved at a setting where the resulting movie will be at or below the specified file size.

This setting is ideal if you have a file size requirement or limit for your final movie file. To increase the quality of the final movie file size, you can specify a larger file size limit. This lets Windows Movie Maker use a higher movie setting to save the movie compared to if you specify a lower file size limit with the same content on the storyboard/timeline.

Other settings

Provides a list of additional movie settings you can choose to save your movie with. When choosing a setting from this list, consider how you plan to share the final movie. This list ranges from movie settings suited for video on a Pocket PC to video suited for local playback which is saved at a high [bit rate](#) and movie setting.

Setting details

Displays the settings for the saved movie file at the current setting. The following details are provided:

File type. The type of file the movie file is saved as on your computer. Possible file types include Windows Media Video (WMV) files or Audio-Video Interleaved (AVI) files.

Bit rate. The total bit rate of the saved video and audio. Typically, a higher bit rate will result in higher-quality video with smoother motion. However, as the bit rate increases, so does the video file size.

Display size. The size the video displays at (in pixels) in your movie. The first number indicates the width of the video, while the second number indicates the height of the video.

Frames per second. The number of frames that are displayed per second in the saved movie file. Typically, a higher number of frames per second will make the motion of objects or persons in your video appear smoother.

Video format. The video standard for the saved video file. The two possible formats are NTSC and PAL. The specific video format depends on the selected video capture device

and the video format it uses. This value is displayed when capturing video as a DV-AVI video file.

Movie file size

Provides the estimated file size of the saved movie and the required available space needed on your hard disk (when saving to your computer) or on the recordable CD (when saving to a recordable CD) to store the saved movie file. The estimated amount of disk space consumed by the movie file is displayed in this area and determined by the length of the movie and the selected movie setting.

For movie settings that are based on the quality of the saved movie, a file size estimate is not available because the size of the movie varies depending on the contents of the timeline and the selected movie setting.

System requirements

Windows Movie Maker requires the following minimum system configuration:

- Microsoft Windows XP Home Edition or Windows XP Professional
- A 600 megahertz (MHz) processor, such as an Intel Pentium III, Advanced Micro Devices (AMD) Athlon, or equivalent processor
- 128 megabytes (MB) of RAM
- 2 gigabytes (GB) of free hard disk space
- An audio capture device (to capture audio from external sources)
- A DV or analog video capture device (to capture video from external sources)
- An Internet connection (to save and send a movie to the Web or to send a movie as an attachment in an e-mail message)

To optimize the performance of Windows Movie Maker, the following system requirements are recommended:

- A 1.5 gigahertz (GHz) processor, such as an Intel Pentium 4, an AMD Athlon XP 1500+, or equivalent processor
- 256 megabytes (MB) of RAM

The following software is required to play back a movie:

- Microsoft Windows 98 or later or Windows NT® 4.0 or later
- Software that can play Windows Media Video (WMV) files, such as Microsoft Windows Media Player 7.0 or later (Windows Media Player 9 Series is recommended to optimize movie playback)

Supported file types

You can add content to your Windows Movie Maker project either by capturing content directly in Windows Movie Maker or by importing existing digital media files. The content you capture in Windows Movie Maker is saved in Windows Media Format. However, you can also import existing Windows Media-based content as well as other common file formats.

You can import files with the following file name extensions into Windows Movie Maker to use in your project:

- **Audio files:** .aif, .aifc, .aiff, .asf, .au, .mp2, .mp3, .mpa, .snd, .wav, and .wma
- **Picture files:** .bmp, .dib, .emf, .gif, .jfif, .jpe, .jpeg, .jpg, .png, .tif, .tiff, and .wmf
- **Video files:** .asf, .avi, .m1v, .mp2, .mp2v, .mpe, .mpeg, .mpg, .mpv2, .wm, and .wmv

Keyboard shortcuts

Task	Shortcut key
Create a new project	CTRL+N
Open an existing project	CTRL+O
Save a project	CTRL+S
Save a project with a new name	F12
Save a movie	CTRL+P
Capture video	CTRL+R
Import an existing digital media file	CTRL+I
Undo the last action	CTRL+Z
Redo the last undone action	CTRL+Y
Cut	CTRL+X
Copy	CTRL+C
Paste	CTRL+V
Delete	DELETE
Select all clips	CTRL+A
Rename a collection or clip	F2
Clear the storyboard/timeline	CTRL+DELETE
Show or hide the storyboard/timeline	CTRL+T
Zoom in on the timeline	PAGE DOWN
Zoom out on the timeline	PAGE UP
Add selected clips to the storyboard/timeline	CTRL+D
Play video in full screen	ALT+ENTER
Set start trim point	CTRL+SHIFT+I
Set end trim point	CTRL+SHIFT+O

Clear trim points	CTRL+SHIFT+DELETE
Split a clip	CTRL+L
Combine contiguous clips	CTRL+M
Nudges clip to the left	CTRL+SHIFT+B
Nudges clip to the right	CTRL+SHIFT+N
Play or pause clip	SPACEBAR
Stop playback on the storyboard/timeline	CTRL+K
Play content on the storyboard/timeline	CTRL+W
Rewind content on the storyboard/timeline	CTRL+Q
Back	CTRL+ALT+LEFT ARROW
Forward	CTRL+ALT+RIGHT ARROW
Previous frame	ALT+LEFT ARROW
Next frame	ALT+RIGHT ARROW
Display Help topics	F1
Select previous item (on a timeline track, on the storyboard, or in the Contents pane)	LEFT ARROW
Select next item (on a timeline track, on the storyboard, or in the Contents pane)	RIGHT ARROW
Select item above (on a timeline track or in the Contents pane)	UP ARROW
Select item below (on a timeline track or in the Contents pane)	DOWN ARROW
Go to the first item (on a timeline track, on the storyboard, or in the Contents pane)	HOME
Go to the last item (on a timeline track, on the storyboard, or in the Contents pane)	END

well done