Your computer uses a piece of hardware called a video card (or video display adapter) to take images from the computer and display them on your video monitor. Your computer also uses a special piece of software called a *"video driver"* to communicate with your video card (and vice versa).

Video color-depth refers to the number of colors your video driver is capable of displaying on your monitor simultaneously. The maximum number of colors that you can display is determined by the amount of video RAM (or VRAM) your video card has and the screen resolution.

Most video cards can display 256 colors at a screen resolution of 640 x 480. Greater color-depth or greater screen resolution with 256 or more colors may require additional VRAM.

Color-depth is referred to in terms of "bits" (e.g. 8-bit). The number of colors you see is equal to the number 2 to the power of the number of bits to which your color-depth is set. Following is a list of common color-depths and the number of colors they represent.

- 2 bit 4 colors
- 4 bit 16 colors
- 8 bit 256 colors
- 16 bit 65,536 colors (often referred to as 64K or 64,000 colors)
- 24 bit 16,777,216 colors (often referred to as 16M or 16 million colors)

While this program will support screen resolutions greater than 640x480, the area the program uses will be limited to 640 by 480 pixels. For best display, use a screen resolution no greater than 640x480.

DPI = Dots per inch

For product support, contact the manufacturer of your PC. Refer to the documentation that came with your PC for the product support telephone number.

## What do I need to run Microsoft 3D Movie Maker?

**Computer:** A Multimedia PC or compatible with a 486/50 or higher microprocessor.

**Memory (RAM):** 8 MB of RAM.

**Hard Disk Space:** 12 MB of free disk space.

**CD-ROM Drive:** Double-speed CD-ROM: This CD-ROM drive can transfer data from the CD-ROM at 300 KB per second while using less than 40 percent of the CPU bandwidth and has an average seek time of less than 400 milliseconds.
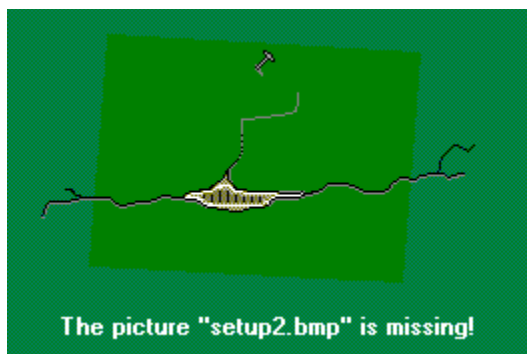
**Video Display Requirements:** Local Bus or PCI Super VGA display capable of displaying 256 colors at 640 x 480 resolution.

**Operating System Requirements:** Microsoft Windows 95 or Microsoft Windows NT 3.51 or later.

**Sound Requirements:** 16-bit Windows-compatible sound card. Also speakers or headphones; and a microphone are recommended.

**Other Requirements:** Microsoft mouse or compatible pointing device.

The picture "setup1.shg" is missing!

The picture "setup2.bmp" is missing!

**Setting up Microsoft 3D Movie Maker**

Before you set up Microsoft 3D Movie Maker, it is best to close other applications. Also do not remove the CD from your computer during Setup.

If you follow these guidelines but still encounter problems during Setup, check that your computer has the minimum requirements necessary to install Microsoft 3D Movie Maker.

See <u>System Requirements</u> to find out about minimum system requirements.

**To install Microsoft 3D Movie Maker**

1    Start Microsoft Windows 95, and insert the 3D Movie Maker CD in your computer's CD-ROM drive.

2    Follow the instructions on the Setup screen.

Microsoft 3D Movie Maker is installed into the MSKids program group. The Setup program installs three icons in the Microsoft Kids group. To start these programs, click the Start button, point to Programs, and then point to the Microsoft Kids program group.

**3D Movie Maker** icon--use it to start the product.

**3D Movie Maker Help** icon--use it to open this Help file.

**Kids Catalog** icon--use it to get information about other Microsoft Kids products.

**Not enough disk space**

Before you set up the product, be sure you have 12 MB of free space on your computer's hard drive.

> **To find out how much free space you have on your hard disk**

**1**    Double-click the My Computer icon on your desktop.

**2**    Right-click the drive where you want to install the program.

**3**    Click Properties.

**4**    In the Properties dialog box, you should have at least 12 MB (or 12,582,912 bytes) free.

If necessary, you can free space by deleting or moving files to a floppy disk. When your computer has enough free space, reinstall the product.

**I'm getting a MIDI error**

When you get a MIDI error, it may mean that the sound driver is not installed, not installed correctly, not configured correctly, or is already in use. Please refer to the documentation that came with your sound card regarding troubleshooting MIDI in Microsoft Windows 95.

**I don't hear any music**

**To resolve sound problems**

1   Check the volume on your sound card or speakers, and turn up the volume if necessary.

2   Check that the audio card software is installed correctly, and reinstall it if necessary.

3   Ensure that the audio card is pressed securely into its slot, or change a jumper setting on the audio card.

4   If you have both an audio card and special software that bypass the audio card to play sounds through the PC speaker, try removing or disabling the PC speaker driver. This product requires MPC-compatible audio; it is not meant to run with only the PC internal speaker or any combination of that speaker and special software.

**I'm getting a MIDI error**

When you get a MIDI error, it may mean that the sound driver is not installed, not installed correctly, not configured correctly, or is already in use. Please refer to the documentation that came with your sound card regarding troubleshooting MIDI in Microsoft Windows 95.

**When I change the volume, the music volume does not change**

With some sound cards, when you attach music to the background of your movie, adjusting the volume control in Microsoft 3D Movie Maker will not affect the music volume level.

## The program doesn't fill the entire screen

Microsoft 3D Movie Maker can be run either full-screen or in a window.

### To turn on full-screen mode

1   When you are running Microsoft 3D Movie Maker, press Ctrl+Shift+I.

2   In the Product Info screen, choose Full Screen.

### To turn of full-screen mode

1   When you are running Microsoft 3D Movie Maker, press Ctrl+Shift+I.

2   In the Product Info screen, choose Run In Window.

**Increasing the performance of Microsoft 3D Movie Maker**

This program requires a minimum of 8 MB of random access memory (RAM) to operate. Check that your computer has enough memory available (see step 2 below). Although Windows 95 allows you to run more than one application simultaneously, you will get better performance if you close all other applications when you run this program.

**Running in Low Memory or Running Slowly**

The program uses your computer's memory to display pictures. If you find that the program runs slowly or if you encounter out-of-memory errors, the program probably doesn't have enough memory.

**Try the following to improve performance**

1 Close all applications you are not using.

2 Determine how much total memory your computer has available.

▶ On the Windows 95 desktop, right-click the My Computer icon.
▶ Click Properties, and then click the General tab.
▶ Look under Computer to see how much RAM you have installed on your computer. You need a minimum of 8 MB of total RAM memory to use the program. If you do not have at least 8 MB of memory, you need to add more.

**Video Display Drivers**

This program requires a screen resolution of at least 640 x 480, and the ability to display a minimum of 256 colors. During installation, the setup program will tell you if your video display adapter cannot display 256 colors. (**Note:** This mode is available with VGA cards that have 512K video RAM or higher.)

**To check current video settings or to learn how to change video settings**

1 Click the Start button, and then click Help.

2 Click the Find tab, and then in the Type the Word You Want to Find box,type display.

3 In the Select Some Matching Words to Narrow Your Search box, click Display.

4 In the Click a Topic, Then Click Display dialog box, click the topic, Changing the Number of Colors Your Monitor Displays.

5 Click Display, and then follow the instructions to change your monitor's video color-depth.

**Setup freezes or hangs**

First, check to be sure your computer has the minimum system requirements necessary to install this product. Then, close other applications before you run the Setup program. Do not remove the CD during Setup.

To find the minimum system requirements for this product, see <u>System Requirements.</u>

If Setup stops running (freezes or hangs), exit and restart Windows, and then run Setup again. (To restart your computer, press CTRL+ALT+Del).

**This program requires 256 or more colors**

This product requires a video driver that displays 256 colors and supports a 640 x 480 or higher screen resolution.

**To check current video settings or to learn how to change video settings**

1    Click the Start button, and then click Help.

2    Click the Find tab, and then in the Type the Word You Want to Find box, type **display**.

3    In the Select Some Matching Words to Narrow Your Search box, click Display.

4    In the Click a Topic, Then Click Display dialog box, click the topic entitled, Changing the Number of Colors Your Monitor Displays.

5    Click Display, and then follow the instructions to change your monitor's video color-depth.

**I'm getting a WAVE error**

This may mean that the sound driver is not installed, not installed correctly, not configured correctly, or is already in use. For more information on troubleshooting audio errors, see Troubleshooting Audio.

**General display troubleshooting**

This program will not run in 16-color mode. The standard VGA driver that comes with Windows can show only 16 colors. However, unless you have a VGA-only video card or monitor, you can change to a higher color mode. For example, you can change to a driver that will display 256 colors.

### To check current video settings or to learn how to change video settings

1   Click the Start button, and then click Help.

2   Click the Find tab, and then in the Type the Word You Want to Find box, type **display**.

3   In the Select Some Matching Words to Narrow Your Search box, click Display.

4   In the Click a Topic, Then Click Display dialog box, click the topic entitled, Changing the Number of Colors Your Monitor Displays.

5   Click Display, and then follow the instructions to change your monitor's video color-depth.

**I'm getting a WAVE error**

If you get a message that says "No wave device that can play files in the current format is installed" when you try to play sound clips or dialogues, then the Microsoft audio compression manager and drivers may not be installed correctly. You may need to update two files in your Windows system directory.

**To update files**

1   Click the Start button.

2   Point to Settings, and then Click Control Panel.

3   Double-click the Add/Remove Programs icon.

4   Click the Windows Setup tab.

5   Click the Multimedia component (do not remove the "**x**" from the check box), then click the Details button.

6   Click the Audio Compression box, click OK, and then click OK again.

   **Note:** If the Audio Compression box is not checked, click to check it. Click OK, and then click OK again and follow the instructions. After installing the Audio Compression software, the WAVE error should be fixed.

7   After un-installing the Audio Compression software, go through the steps again, checking the Audio Compression box to install the Audio Compression software again. After installing the Audio Compression software, the WAVE error should be fixed.

**I'm getting a "CD Read" error**

The most common CD-ROM error messages you might receive are "block device" and "read" errors. Almost all CD-ROM errors can be fixed using the following suggestions.

1   Clean the CD. Most CD errors happen because there is a scratch, smudge, or dust particle on the CD. If your CD is scratched, you may need to replace it.

2   See if your CD-ROM drive letter has changed. If it has, reinstall the product using the new drive letter, and then try to run the product again.

3   Copy files from your CD to your computer's hard drive.
    If you still cannot run the product, there may be a problem with the CD-ROM drive or controller. Run other CDs to see if you encounter the same problem, and, if you do, contact the CD-ROM manufacturer.

4   Delete (or uninstall) the program, and then reinstall it.

**I'm getting a "block device" error**

The most common CD-ROM error messages you might receive are "block device" and "read" errors. Almost all CD-ROM errors can be fixed using the following suggestions.

1   Clean the CD. Most CD errors happen because there is a scratch, smudge, or dust particle on the CD. If your CD is scratched, you may need to replace it.

2   See if your CD-ROM drive letter has changed. If it has, reinstall the product using the new drive letter, and then try to run the product again.

3   Copy files from your CD to your computer's hard drive.
    If you still cannot run the product, there may be a problem with the CD-ROM drive or controller. Run other CDs to see if you encounter the same problem, and, if you do, contact the CD-ROM manufacturer.

4   Delete (or uninstall) the program, and then reinstall it.

## I don't hear any sounds

### If sound does not play at all

**1**   Check the volume on your sound card or speakers, and turn up the volume if necessary.

**2**   Check that the audio card software is installed correctly, and reinstall it if necessary.

**3**   Ensure that the audio card is pressed securely into its slot, or change a jumper setting on the audio card.

**4**   If you have both an audio card and special software that bypass the audio card to play sounds through the PC speaker, try removing or disabling the PC speaker driver. This product requires MPC-compatible audio; it is not meant to run with only the PC internal speaker or any combination of that speaker and special software.

## Sounds are "fuzzy" or distorted

Sound distortion is often caused by sending a higher volume or amplitude of sound than the speakers are able to handle. Also, if the volume control on your audio card is set too high, it may cause distortion from the amplifier on the audio card. Sometimes lower-quality speakers distort at a lower volume than better-quality speakers.

For example, if your audio card or "WAVE file output" volume is set to near maximum, it will cause distortion. To change your audio card settings, refer to the manuals that came with your audio card.

To change the volume settings, use either a volume dial on the back of your audio card (located in the back of your computer where the speakers plug in) or a program called a "mixer."

### To adjust the Windows 95 volume control

1   Click the Start button.

2   Point to Programs, and then point to Accessories.

3   Point to Multimedia, and then click Volume Control.

4   Adjust the volume controls.

5   Click the Close box.

If sound is still "fuzzy" or distorted, contact your sound-card manufacturer.

**Sounds skip**

If sound breaks up or skips periodically, it usually indicates that the CD-ROM drive does not meet the full MPC (Multimedia PC) specifications and needs to be upgraded.

**Note:** The MPC specification states that the CD-ROM drive needs to be capable of transferring data at a rate of 300 KB per second while utilizing 40 percent or less of the CPU.

Although you can continue to use your CD-ROM drive to run this product, sounds will skip.

**Sounds get cut off while they are playing**

Most audio cards can play only one sound at a time; therefore, other products with sound may interrupt sounds from this product. Some programs may take over the audio capability and prevent other Windows programs from creating sounds.

If you think you have another program that produces sounds which could interrupt sounds from this product, do not run it simultaneously with this product.

**I'm getting a WAVE error**

If you get a message that says "No wave device that can play files in the current format is installed" when you try to play sound clips or dialogues, then the Microsoft audio compression manager and drivers may not be installed correctly. You may need to update two files in your Windows system directory.

**To update the files**

1    Click the Start button.

2    Point to Settings, and then Click Control Panel.

3    Double-click the Add/Remove Programs icon.

4    Click the Windows Setup tab.

5    Click the Multimedia component (do not remove the "**x**" from the check box), and then click the Details button.

6    Click the Audio Compression box, click OK, and then click OK again.

     **Note:** If the Audio Compression box is unchecked, click to check it. Click OK, and then click OK again and follow the instructions. After installing the Audio Compression software, the WAVE error should be fixed.

7    After un-installing the Audio Compression software, go through the steps again, checking the Audio Compression box to install the Audio Compression software again. After installing the Audio Compression software, the WAVE error should be fixed.

**General display troubleshooting**

This program will not run in 16-color mode. You can change to a higher color mode, unless you have a VGA-only video card or monitor. For example, you can change to a driver that displays 256 colors.

**To check current video settings, or to learn how to change video settings**

**1**   Click the Start button, and then click Help.

**2**   Click the Find tab, and then in the Type the Word You Want to Find box, type **display**.

**3**   In the Select Some Matching Words to Narrow Your Search box, click Display.

**4**   In the Click a Topic, Then Click Display dialog box, click the topic entitled, Changing the Number of Colors Your Monitor Displays.

**5**   Click Display, and then follow the instructions to change your monitor's video color-depth.

**I need to display 256 colors**

To use this product, your computer's <u>video driver</u> must support a screen resolution of at least 640 x 480 (although the program will support <u>higher screen resolutions</u>) and display 256 colors.

> **To check current video settings or to learn how to change video settings**
>
> **1**   Click the Start button, and then click Help.
>
> **2**   Click the Find tab, and then in the Type the Word You Want to Find box, type **display**.
>
> **3**   In the Select Some Matching Words to Narrow Your Search box, click Display.
>
> **4**   In the Click a Topic, Then Click Display dialog box, click the topic entitled, Changing the Number of Colors Your Monitor Displays.
>
> **5**   Click Display, and then follow the instructions to change your monitor's video <u>color-depth</u>.

**The program is running slowly**

If you experience performance problems using this program, it may be because your computer:

▶ Is displaying more than 256 colors.
▶ Does not meet the <u>minimum system requirements.</u>
▶ Just meets the <u>minimum system requirements.</u>

**To check current video settings or to learn how to change video settings**

1    Click the Start button, and then click Help.

2    Click the Find tab, and then in the Type the Word You Want to Find box, type **display**.

3    In the Select Some Matching Words to Narrow Your Search box, click Display.

4    In the Click a Topic, Then Click Display dialog box, click the topic entitled, Changing the Number of Colors Your Monitor Displays.

5    Click Display, and then follow the instructions to change your monitor's video <u>color-depth</u>.

If your system does not meet the minimum system requirements for this product, you need to make the necessary modification(s) before it will work properly.

If your machine "just meets" minimum system requirements, try the following to increase system performance.

**To increase system performance**

1    Close all other applications when using this product.

2    Have Windows manage your computer's virtual memory settings.

▶ On the Windows 95 desktop, and right-click the My Computer icon.
▶ Click Properties, and then click the Performance tab.
▶ Click the Virtual Memory button, and then choose Let Windows Manage My Virtual Memory Settings (Recommended).

3    Defragment your computer's hard drive.

▶ Click the Start button, and then point to Programs.
▶ Point to Accessories, and then point to System Tools.
▶ Click Disk Defragmenter.

**Note:** If necessary, install Disk Defragmenter using the Add/Remove Programs icon in Control Panel.

4    Optimize Windows CD-ROM drive settings.

▶ On the Windows 95 desktop and right-click the My Computer icon.
▶ Click Properties, and then click the Performance tab.
▶ Click the File System button, and then click the CD-ROM tab.
▶ Increase the size of the Supplemental Cache for your CD-ROM. Also check that the settings and speed in the Optimize Patterns For box are correct.

**I'm having problems with my CD-ROM**

The most common CD-ROM error messages you might receive are "block device" and "read" errors. Almost all CD-ROM errors can be fixed using the following suggestions.

1    Clean the CD. Most CD errors happen because there is a scratch, smudge, or dust particle on the CD. If your CD is scratched, you may need to replace it.

2    See if your CD-ROM drive letter has changed. If it has, reinstall the product using the new drive letter, and then try to run the product again.

3    Copy files from your CD to your computer's hard drive.
If you still cannot run the product, there may be a problem with the CD-ROM drive or controller. Run other CDs to see if you encounter the same problem, and, if you do, contact the CD-ROM manufacturer.

4    Delete (or uninstall) the program, and then reinstall it.