E257

740DVD

Hardware DVD Daughterboard

for the

ASUS AGP-V2740

3D Multimedia Accelerator Series

USER'S MANUAL

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Contents

Communications Regulation Information 4

Federal Communications Commission Statement 4
Canadian Department of Communications Statement 4

ASUS Contact Information 5

Introduction 6

Item Checklist 6
Supported File Formats 7
System Requirements 7

Installation 8

Hardware Installation 8
ASUS 740DVD Parts 8
ASUS 740DVD Layout 8
Installing Your ASUS 740DVD 9

Software Installation 10
Windows95/98 10
Contents Scramble System (CSS) Regions 11
Using the DVD Station 12
Starting the DVD Station 12
Standard Buttons 14
Custom Buttons 15
Picture Controls 20
DVD Navigation Buttons 21
DVD Playback 23
Video CD Playback 26
Audio CD Playback 27
Shortcut Keys 28

Communications Regulation Information

Federal Communications Commission Statement

This device complies with FCC Rules Part 15. Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with manufacturer's instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

WARNING! The use of shielded cables for connection of the monitor to the graphics card is required to assure compliance with FCC regulations. Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Canadian Department of Communications Statement

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

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Introduction

Congratulations on your purchase of an **ASUS 740DVD** Hardware DVD Daughtercard for the ASUS AGP-V2740 3D Multimedia Accelerator Series. The ASUS 740DVD transforms your computer into a full-function DVD player, and provides you with uncompromising high performance hardware MPEG-2 digital video playback capability.

NOTE Refer to the README.TXT file for important information not available when this manual was printed. You will find this file on the CD disc supplied with the board and also in the REALmagic DVD program group after software installation.

Item Checklist

- ASUS 740DVD Hardware DVD Daughtercard
- ASUS 740DVD Software (CD disc)

NOTE Throughout this document, references are made to the Windows 95/98 directory or the CD-ROM drive. In general, the Windows directory is called \WINDOWS, but this is not mandatory. You may have named it something else (e.g., \WIN, \WINDOW95). When references are made to the \WINDOWS directory throughout this document, you can replace \WINDOWS with your own Windows directory name, if necessary. This manual also assumes that your CD-ROM drive is drive **D:**.

Supported File Formats

Your ASUS 740DVD supports the following MPEG file formats: DVD (e.g., IFO and VOB files), MPG files (MPEG-2/MPEG-1), DAT files (Video CD 1.0/2.0), and VBS and ABS files (MPEG-encoded video only bitstream and audio only bitstream files)..

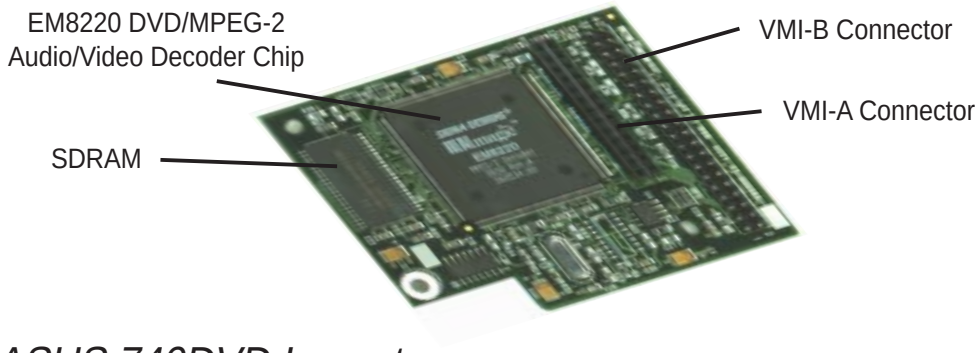
System Requirements

- Windows 95 OEM Service Release 2.1 or later (Version 4.00.950 B with USB Update) or Windows 98
- 16MB of RAM (32MB recommended)
- ASUS AGP-V2740 3D Multimedia Accelerator
- Pentium II computer system
- 10MB of free hard disk space
- DVD-ROM drive
- Sound Blaster 16 or compatible sound card
- Plug and Play BIOS support
- Bus mastering IDE controller recommended

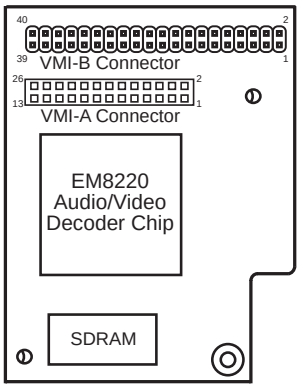
Hardware Installation

The ASUS 740DVD hardware installation assumes that both your ASUS AGP-V2740 and sound system (check the hardware suppliers' documentation) have been properly installed in your computer.

ASUS 740DVD Parts

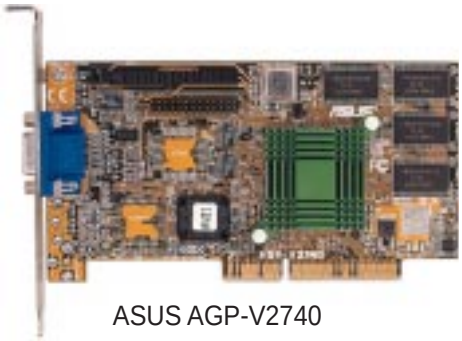


ASUS 740DVD Layout



Installing Your ASUS 740DVD

- Turn off the power to your computer and to your monitor. Unplug the power cord from the computer.
- Unplug the VGA monitor cable from your PC.
- Remove the cover from your computer. (Refer to your PC user's manual for specific instructions.)
- Locate the VMI-B Connector (40-pin male) and VMI-A Connector (26-pin female) on the ASUS AGP-V2740 3D Multimedia Accelerator. If the AGP-V2740 has already been installed on the system board, refer to your user's manual to locate these connectors.
- Plug the corresponding connectors on the 740DVD into the AGP-V2740 and push gently and firmly to secure the card for proper connection.



ASUS AGP-V2740

ASUS 740DVD (back view) on ASUS AGP-V2740

- Make sure that the VGA card is properly seated and installed in the AGP connector.
- Replace the cover of your PC and reconnect the power cord.
- Reconnect all cables and replace the cover.

Software Installation

Windows95/98

The ASUS 740DVD software for Windows 95 and Windows 98 is included on the CD installation disc.

- Turn on your computer and switch into Windows 95/98.
- Insert the installation disc into your CD-ROM drive. The ASUS 740DVD Install Shell will appear. If it does not appear, run D:\DISK1\SETUP.EXE.
- Follow the onscreen instructions to complete the installation process.

WARNING! The ASUS 740DVD integrates Contents Scramble System (CSS) capability, allowing end-users to regionalize their DVD-ROM drive or player up to five times. Once the drive has been regionalized for the fifth time, its region code is set and available only for the region for which the drive has been last set. *See* opposite page for a list of the CSS Regions.

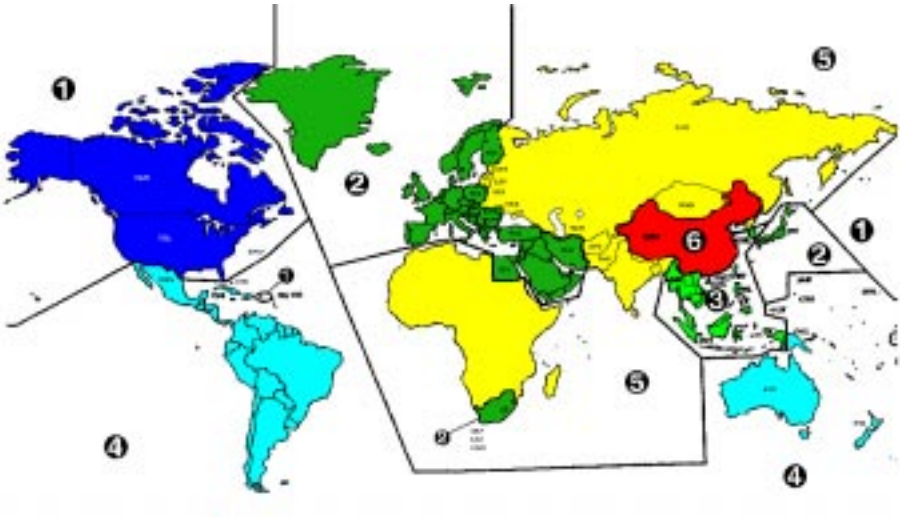
- When the setup program is finished installing the necessary software, the **Setup Complete** dialog box appears. Click **Finish** to complete the setup.

  The installation process will copy the applications to the C:\REALmagic folder and create a **REALmagic** program group containing **DVD Station**, **Readme**, **REALmagic Configutration**, and **Uninstall**.

IMPORTANT Before attempting to play MPEG video, you should have already installed the drivers for the ASUS AGP-V2740.

Contents Scramble System (CSS) Regions

The world is divided, for CSS purposes, into six regions. A CSS-encoded disc may be encoded for one or more of the regions, but your player or hardware must be identified as one region only. A player or hardware may only play discs that are encoded for that player's region. [*See* **WARNING!** on the opposite page]



CSS Regions

Region 1: The U.S., its territories and Canada
Region 2: Europe, Japan, the Middle East, Egypt, South Africa, Greenland
Region 3: Taiwan, Korea, the Philippines, Indonesia
Region 4: Mexico, South America, Australia, New Zealand
Region 5: Russia, Eastern Europe, India, most of Africa
Region 6: China

Using the DVD Station

DVD Station is a versatile Windows utility that allows you to play a variety of DVD, Video CD, and CD formats. This section describes how to use **DVD Station** to play full-length feature films recorded in the DVD and Video CD formats, data CDs containing MPEG files and Audio CDs. **DVD Station** will automatically detect the format of the disc in your DVD-ROM drive and identify the file type in the Display Panel. **DVD Station** can also detect MPEG files in your CD-ROM and hard drives.

Your DVD-ROM drive must be DVD-compliant to be able to play DVD-Video and DVD-ROM. Check the owner's manual of your DVD-ROM drive to make sure it meets these requirements before attempting to play DVD discs.

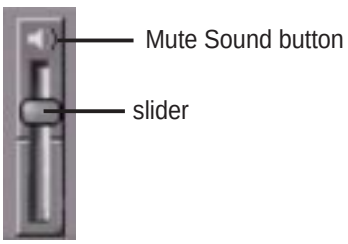
Starting the DVD Station

- Start Windows, if you have not already done so.
- Insert a DVD disc, a Video CD, or a CD disc containing MPEG files into your DVD drive.
- Click the **Start** button on the taskbar**,** point to **Programs** and then to **REALMAGIC MALIBU**, and then click **DVD Station**.
- **DVD Station** appears on the screen. (**DVD Station** looks best if you set your display properties to 256 or more colors.)

■ If the Auto-Play feature in DVD Station is enabled, **DVD Station** will begin playing the disc in the DVD-ROM drive when one is inserted.

The **Display Panel** provides specific information about the current video or audio track, such as its track number, play time, and aspect ratio. A progress bar at the bottom indicates the progression of the clip as it plays. You can click the Progress Bar to jump to a particular part of the track being played. Depending on the type of disc you are playing, additional information may appear.

The **Volume Control** increases or decreases the audio level. Using your mouse, move the slider up and down to adjust the volume. Click the Mute Sound button to mute the audio. To turn the audio on, click the Mute Sound button again.



Standard Buttons

Pause and **Play** button. Click this button to pause play, to start playing the first track on the DVD or CD, or to resume play after pausing.

Stop button. Click this button to stop playback.

Eject button. Click this button to operate the ejection mechanism (if supported by your DVD-ROM or CD-ROM drive).

Rewind button. Click this button to play the current track backwards at 2x speed, click again for 8x speed, and click again to resume normal playback.

Fast Forward button. Click this button to fast forward the current playing track at 2x speed, click again for 8x speed, and click again to resume normal playback.

Previous Track button. Click this button to skip to the previous track on the disc.

Next Track button. Click this button to skip to the next track on the disc.

Play Mode button. Click this button to select from three play modes: **All**, **Random,** and **Play List**. The Display Panel will show which play mode is currently active. The default play mode is **All**. To select **Play List**, you must first create a play list. (*See* **Creating a Play List** later in this chapter.) Selecting **Random** will cause **DVD Station** to play the tracks in random order. The **Random** setting does not work with DVD movies.

Repeat Mode button. Click this button to toggle between **Play Once** and **Continuous Play** modes. Click once to repeat the current chapter, and twice to repeat the title.

Custom Buttons

Custom Buttons perform additional functions within **DVD Station**.

Clicking the **Display** button displays the playtime of the current clip, the spoken language, and the name of the file in the upper left-hand corner of the VGA viewing window. Clicking the **Counter** button again disables this feature.

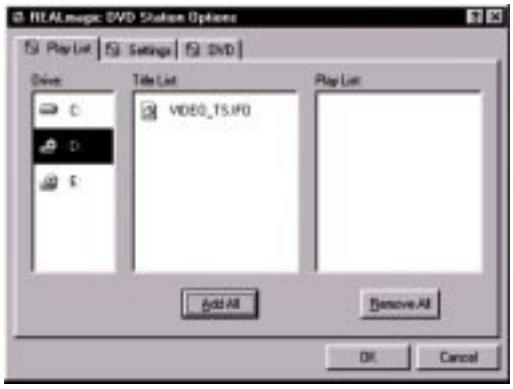
Clicking the **Full Screen** button or double clicking left button of the mouse on the Video window to toggle between the video window and full screen.

Press CTRL+Z to restore the video window from full screen to its previous size.

When playing in Full Screen mode, move the mouse to the bottom of the screen to display a mini-DVD Station to control movie playback. The Mini-DVD Interface is similar to the Standard Buttons and allows you to control video playback while you are in Full Screen mode.

Clicking the **Open File** button allows you to open and play MPEG files from your hard disk, DVD-ROM, or CD-ROM drive. You will see a standard Open Video File dialog window.

Clicking the **Options Dialog** button brings up the DVD Station Options window (*see* next page).



Play List

The **Play List** feature allows you to create a list of your favorite MPEG clips for the DVD Station's Play List mode. In the preceding figure, drive D: is the DVD-ROM drive and drive E: is the CD-ROM drive. Since the DVD/MPEG-2 Playback Card is capable of playing both MPEG-1 and MPEG-2 files, you may choose to play MPEG-1 and MPEG-2 files from the CD-ROM drive or from your hard disk drive. DVD files will only play from the DVD-ROM or the hard disk drive.

The Title List window displays the filenames of MPEG clips that **DVD Station** was able to locate on the hard disk, DVD-ROM, or CD-ROM drive. The Play List window displays the clips that are currently on the Play List.

To create a Play List, follow these steps:

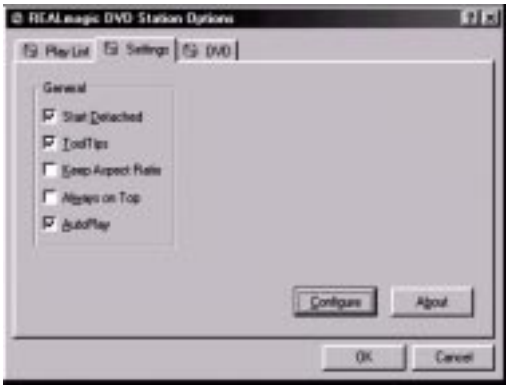
- Select the clip's icon that you wish to add to the Play List from the Title List window and drag it into the Play List window. To move all of the clips in the Title List to the Play List, click the **Add All** button. To clear the Play List, click the **Remove All** button.

- To remove a clip from the Play List, click the clip's icon and drag it into the Title List box. To change a clip's playing order, drag and re-position its icon in the Play List box.
- Click **OK** when you have finished adding, removing, and/or changing the order of the clips into the Play List.
- Click the **Play Mode** button in the main window (*see* page 14) until the word **Play List** is highlighted in the Display Panel. All clips included in the Play List will play in the order that you made.

NOTE: Play Lists cannot be created for DVD movies.

Settings

Click the **Settings** tab to display the DVD Station Settings. This section allows you to choose the various DVD Station settings that you can enable and/or disable.



Start Detached Displays the DVD Station Control detached from the movie window on startup. Press F2 to toggle this feature.

ToolTips Enables pop-up ToolTips that display the function of each DVD Station button.

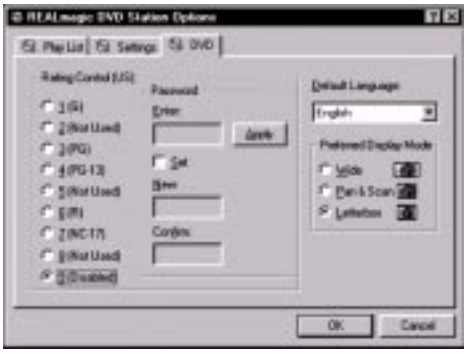
Keep Aspect Ratio Maintains the movie's correct aspect ratio (either 4:3 or 16:9) when re-sizing a movie window. Prevents distortion of the movie. Press F4 to resize the movie window to the movie's standard (non-scaled) resolution.

Always on Top Displays the movie window on top of all other windows. With this feature enabled, other programs will not appear on top of the movie window.

AutoPlay Allows you to enable and disable the Windows 95/98 AutoPlay feature on the DVD-ROM drive.

DVD

Click the DVD tab to display the DVD Station's DVD settings.



Rating Control

Some DVD movie titles support a voluntary movie rating system. With a rated title, this feature allows you to play an edited version of the movie, with violent and other objectionable scenes removed. For instance, a title may come with R, PG-13, and PG-rated versions of the same movie.

When DVD Station is first installed, the password box appears dimmed. To enable this feature, check the **Set** box and enter a password. Enter a password of your choice into the **New** box and again in the **Confirm** box. Click **Apply** to enable the password.

NOTE Make sure the password is something you can remember or record it at a safe place. If you forget the password, you must reinstall **DVD Station** to enter a new password.

When you want to change the rating level, enter the password into the **Enter** box and them make your selection.

IMPORTANT NOTE This feature has no effect on titles that do not support the Parental Lockout feature. Most DVD movie titles do not use this voluntary rating system. You cannot rely upon this feature to prevent your children from viewing objectionable titles. The only way to prevent children from playing such movies is to physically keep those movies out of reach of children.

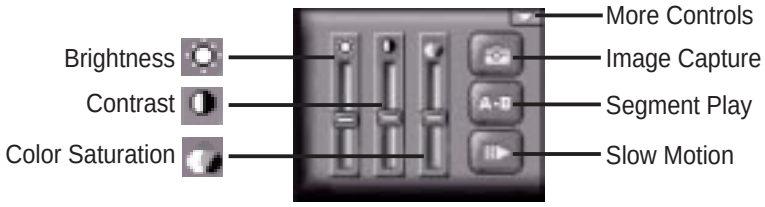
Default Language

Most DVD movies support multi-lingual audio. You may select the default language of your choice under the **Default Language** selection. If the chosen default language is not available on that DVD movie title, DVD Station will use the default language on that particular DVD movie disc, which may differ depending on the origin of the disc.

NOTE You must restart the movie after changing the Default Language for it to take effect.

Picture Controls

Click the **More Controls** button to toggle the display of more features.



Picture Control sliders The VGA chip controls brightness, contrast, color saturation, and gamma. These features therefore, depend on the type of the VGA chip of your notebook.

Image Capture Click the **Image Capture** button to save a BMP image of a movie frame to disk. Note that, because of copyright restrictions, this feature does not work with DVD Video titles.

Segment Play (A-B) This feature lets you loop playback between any two points in a movie. Click this button on the progress bar once during movie playback to set the start point. Click the button a second time to set the end point. The movie will now loop between the two points until you press another button (for example: Rewind or Stop).

Slow Motion Play Click this button to play back the movie at half speed. Click the button again to return to normal playback speed. Audio is muted when Slow Motion is selected.

DVD Navigation Buttons

There are five DVD Navigation buttons and a joystick controller on the right side of the **DVD Station**. Use the mouse to activate the desired function.

Audio Soundtrack Language Selector

This operation only functions with a DVD movie disc that contains multiple language soundtracks. Press the Audio Soundtrack Language Selector during play. Click and select the language you want. The figure below shows an example where English is the selected language. The language selected is momentarily displayed in the upper-right corner of your movie window.

Camera Angle Selector

This operation only functions with a DVD movie disc that contains multiple camera angles. Click the Camera Angle Selector during play. Move the mouse UP or DOWN to highlight the camera angle you wish to view. Click the angle you wish to view. The camera angle number is momentarily displayed in the upper-right corner of your movie window.

Subtitle Selector

This only functions with a DVD disc that contains multiple language subtitles or closed captions. To start this operation, click the Subtitle Selector during play. The language selected is momentarily displayed in the upper-right corner of your movie window. If the selector is divided (the languages appear more than once, as shown in the figure), the first selection provides normal subtitles for the selected language. The second language selection identifies subtitles with extra functions, such as for use by visually-impaired people.

Menu Selector

Some DVD discs have a unique menu structure called DVD menu. For example, some discs allow you to access the multiple language soundtrack, multiple camera angles, and subtitle options in the DVD menu.

Title Selector

Some DVD discs, such as movies or Music Videos, have more than one title and contain a Title menu. If the disc has a Title menu, click the Title Selector during play to activate the menu. Use your mouse to operate the joystick to highlight the desired title. Click the Select button or the Play button to play the title.

Joystick Controller

The joystick controller is a group of five buttons nested together. The joystick is used to navigate around the possible choices offered in the DVD menus. Click the UP, DOWN, LEFT, or RIGHT arrow tips to highlight the option you wish to select, and click the Select button in the center of the joystick to select the highlighted item.

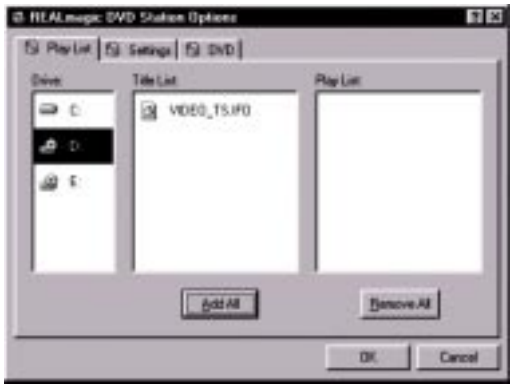
DVD Playback

Basic DVD Playback

- Turn on the PC and press OPEN/CLOSE button on the DVD-ROM drive to open the disc tray.
- Insert a DVD disc onto the tray and press the OPEN/CLOSE button on the DVD-ROM drive to close the disc tray.
- Start **DVD Station** by selecting the following from the taskbar: **START**–**PROGRAMS**–**REALmagic Malibu**–**DVD Station**. The DVD control panel and Video Screen should appear.

NOTE If the Auto-Play feature of DVD Station is enabled, the DVD-Video will begin to play.

- Initially, the DVD Station Control panel is detached from the MPEG Video screen. You can attach the DVD Station to the MPEG Video screen by pressing the F2 key on the keyboard. Pressing F2 again will detach the DVD Station Control panel.
- If the DVD Station Control Panel is behind the MPEG Video screen and is not visible, click the right mouse button to bring the Control Panel to the foreground.
- If a DVD movie disc is in the DVD-ROM drive, and the DVD-ROM drive is the first logical drive after the hard disk (for example, the hard disk is drive C: and the DVD-ROM is drive D:), click **PLAY** on the DVD station. The DVD movie should start.
- If the DVD-ROM is NOT the first logical drive after the hard disk, click the **Options Button** on the DVD Station. In the Options dialog, select the drive that represents your DVD-ROM drive. DVD Station will automatically search for all available DVD files on the selected drive. A DVD information file VTS_01_0.IFO (for a DVD-Video disc) should appear on the Title List. Click **OK** to close the dialog.



- Click the **PLAY** button on the DVD station.

10-key Keypad

If **DVD Station** detects that a DVD movie disc is in the DVD-ROM drive, it will display the 10-Key Key Pad button instead of the Mode button. Clicking this button will bring up a floating 10-key keypad that will allow you to interact with some DVD movie titles that have menu selections and other options.

Click this button to toggle between the two 10-key keypads.

Use this button to make corrections.

This button returns to the previous menu.

Click this button to execute whatever option you have chosen.

If the 10-key keypad is hidden by another window, clicking the 10-key Keypad button again will bring it back to the foreground.

During full-screen video playback, use the right mouse button to hide and unhide the 10-key keypad.

Video CD Playback

- Press the OPEN/CLOSE button on the DVD-ROM drive or the CD-ROM drive to open the disc tray.
- Insert a Video CD 2.0 disc onto the tray and press OPEN/CLOSE button on the DVD-ROM drive to close the disc tray.
- Initialize DVD Station by selecting the following from the taskbar: **START**–**PROGRAM**–**REALmagic Malibu**–**DVD Station**.
- **DVD Station** will detect the Video CD in the DVD-ROM drive or the CD-ROM drive and display the Video CD 2.0 Control Panel. If the disc is a Video CD 1.0 disc, the 10-key Keypad will not appear and the display will show **VCD** instead of **VCD2**.

Select Buttons (Video CD 2.0 Only)

Video CD 2.0 discs feature embedded playback controls. When you play a Video CD 2.0 disc, you can experience a whole new level of interactivity. You may play a disc that prompts you with questions. For example, you may be asked if you want to play the disc in (1) English or (2) Japanese. If you are playing a Video CD 2.0 disc, DVD Station will show a series of number buttons on the screen next to the Standard Buttons. Use these buttons to make your selection.

Click on the number that you want to select. The number will be displayed in the display panel.

Playing a Video CD 2.0

DVD Station will display a 10-key Keypad for Video 2.0 CD discs. To play the disc, select the **Play** button on **DVD Station**. For most Video 2.0 CDs, you will see a menu of songs on the viewing screen. The viewing screen will show only the first half of the songs on the CD. To select a song from the second half of the viewing screen, click the **Next Track** button. Once you have decided on a song, use the keypad on **DVD Station**'s control panel to select the song number and click the **Menu Select** key on the control panel using your mouse.

NOTE Some Video CDs have different formats and do not require the **Menu Select** key. Some formats will work by using the **Next Track** button to select the song, followed by clicking the **Play** button.

Audio CD Playback

- Press the OPEN/ CLOSE button on the DVD-ROM drive or the CD-ROM drive to open the disc tray.
- Insert an Audio CD disc onto the tray.
- Start DVD Station by selecting the following from the taskbar: **START**–**PROGRAM**–**REALmagic Malibu**–**DVD Station**.
- **DVD Station** will detect the Audio CD in the DVD-ROM drive or the CD-ROM drive and display the Audio CD Control panel.

- Click the **Play** button to start playing the Audio CD, or use the Play List function to choose your own selection. The **Open File** feature is not supported for Audio CD.

Shortcut Keys

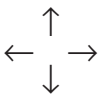
Double-click movie window	Toggle movie playback between full-screen and window mode.
Press any key	Return from full-screen to window playback mode
Right-click on movie window	Display playback controls (window playback mode only)
Move mouse to bottom of screen	Display mini-controls (full-screen mode only)
F1	Help
F2	Toggle to detach/attach playback controls to movie window
F3	Display DVD movie information (window playback mode only)
F4	Size window to the movie's standard resolution (without scaling or stretching)
Alt-F4	Quit
Ctrl+a	Activate angle menu
Ctrl+c	Activate frame capture
Ctrl+d	Toggle display timer
Ctrl+e	Eject disk
Ctrl+f	Fast-forward (cycles from 2x, 8x, then normal)
Ctrl+g	Segment (A-B) play
Ctrl+l	Cycle playback mode (All, Random, Play List)
Ctrl+m	Display DVD menu

Ctrl+n	Next track or chapter
Ctrl+o	Open options dialog
Ctrl+p	Play/pause toggle
Ctrl+q	Activate closed caption/sub-title menu
Ctrl+r	Rewind
Ctrl+s	Stop
Ctrl+t	Display DVD title menu
Ctrl+v	Previous track or chapter
Ctrl+w	Slow motion playback
Ctrl+z	Toggle between Full and Window Screen

Video CD 2.0 Shortcut Keys

Ctrl+0–Ctrl +9	Select numbers on Video CD 2.0 keypad
Ctrl+←	Backspace on Video CD 2.0 keypad
Ctrl+<Enter>	Apply or enter selection on Video CD 2.0 keypad
Ctrl+→	Play default Video CD 2.0 track

DVD Menu Shortcut Keys

	Select menu option (active when DVD menu is onscreen)
<Enter>	Activate selection (active when DVD menu is onscreen)

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