ImageMixer VCD

- Tutorial
- Reference

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Create a Video CD!

ImageMixer with VCD (IMxVCD) is an authoring application for creating Video CD movies.
After adding your movies, you can create the movie buttons for the menu screen displayed when the Video CD is played. Design your own menu screen with custom movie button settings, background images, and music.
The movie buttons are assigned selection numbers. You can play the selection button content by using the remote control of your playback device. For example, to play movie assigned to number [1] on the menu screen, press [1] on your remote control. (Actual operation varies depending on your playback device.)
Follow these steps to create your own Video CD.

Important
Be sure to read the Precautions.
Macintosh users cannot directly record Video CDs using IMxVCD. On a Macintosh, use IMxVCD to create a Video CD image that is compatible with the CD burning application Toast by Roxio, Inc. To use Toast for Video CD recording, refer to the separate instructions.

Reference
For feature details, please read the Reference section.

Add Your Movies

First, launch IMxVCD and add the movies to be recorded on your Video CD. The movies you add will be displayed as movie buttons on the menu screen when you play the Video CD.

Customize the Menu

Apply a layout design, background image, and music to the menu screen displayed when the Video CD is played.

Preview the Video CD

Check the results of your authoring by playing a preview.

Output

Record the content you have authored on a Video CD, or prepare a Video CD image for recording.

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Add Your Movies

The movies you add will be displayed on the Layout environment as movie buttons. You can add multiple movies for movie buttons until the capacity indicator bar is full -- up to 6 on single menu screen.

Important
When the number of movies reaches 97 for a single project, no more can be added.

1. Launch ImageMixer.

   Windows

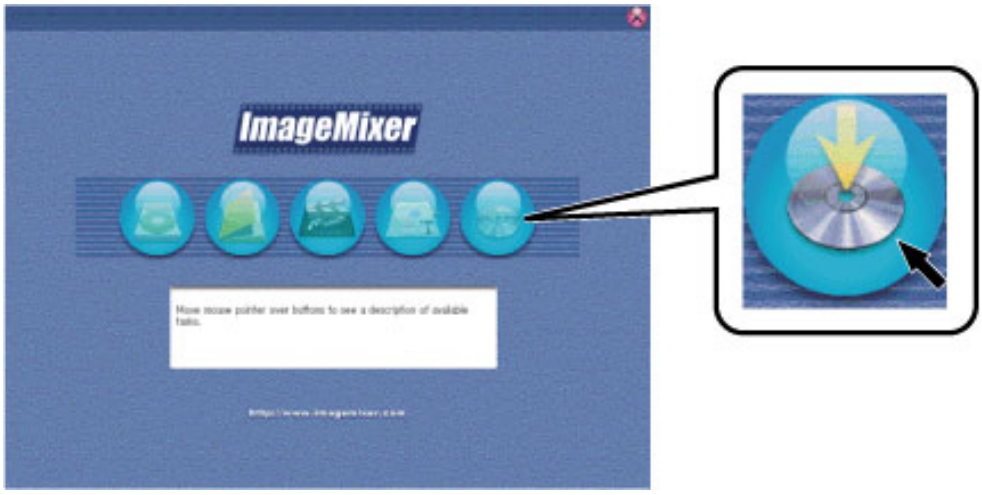
   Click [Start], go to [Programs]-[PIXELA]-[ImageMixer], and select [ImageMixer with VCD].

   Note
   If you created a shortcut during installation, you can double-click on the [ImageMixer with VCD] shortcut icon on your desktop to launch ImageMixer.

   Macintosh

   Double-click on the [ImageMixer with VCD] icon in the [ImageMixer] folder installed on your hard disk.

2. When the mode selector is displayed, click the [IMxVCD] button at the far right.



3. After ImageMixerVCD (IMxVCD) is launched, the Start Screen is displayed. Click the [Video CD] button.

4. When the Layout environment screen is displayed, drag and drop your ① movies directly from desktop to the Layout environment screen.
② The movies that you add here to the Layout environment screen will be displayed as movie buttons on the menu screen.
To add multiple movies, repeat step 3.

Note
Windows users can add movies through Windows Explorer.
You can also specify movies to add in the dialog box displayed after clicking the [Add Movie] button in the Layout environment screen.

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Customize the Menu (1)

Preferences

Style Settings

- Apply a style to the menu screen
- Specify the background for the menu screen

Customize the Movie Button Labels

- Rename the movie buttons
- Modify the movie button font settings

Title Settings

- Rename the menu screen title
- Modify the menu screen title font settings

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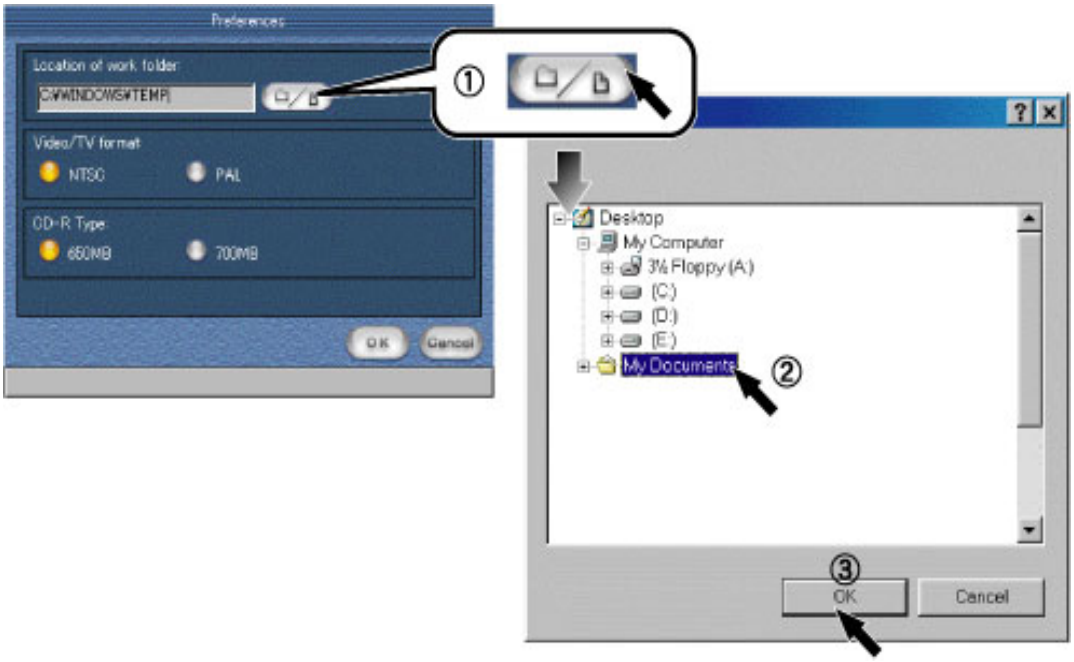
Customize the Menu (2)

Preferences

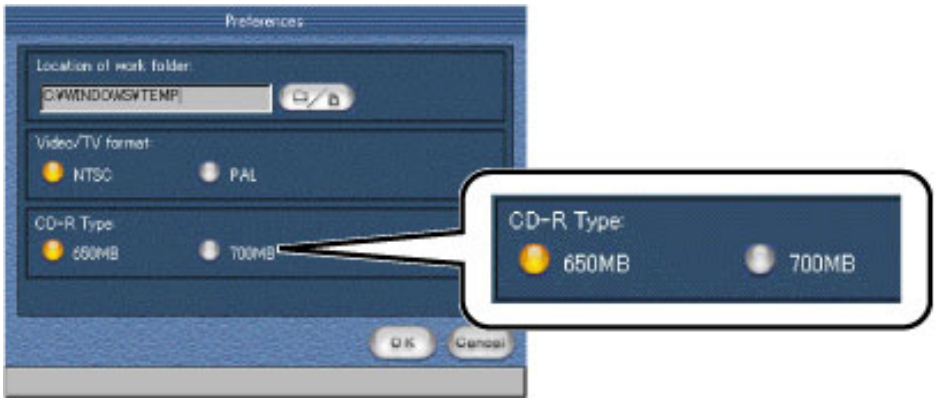
1. On the Navigation Bar, click the [Preference] button to display the [Preference] dialog box.

2. ① Click the [Browse...] button. ② In Windows, select the folder for your IMxVCD/DVD project.(Macintosh users select the workspace hard disk for your project). ③ Click the [OK] button.



3. Select the [Video/TV format:] for your Video CD .

4. Select the disk capacity for your Video CD.



Note

You can adjust the preference anytime by clicking the [Preference] button on the Navigation Bar.

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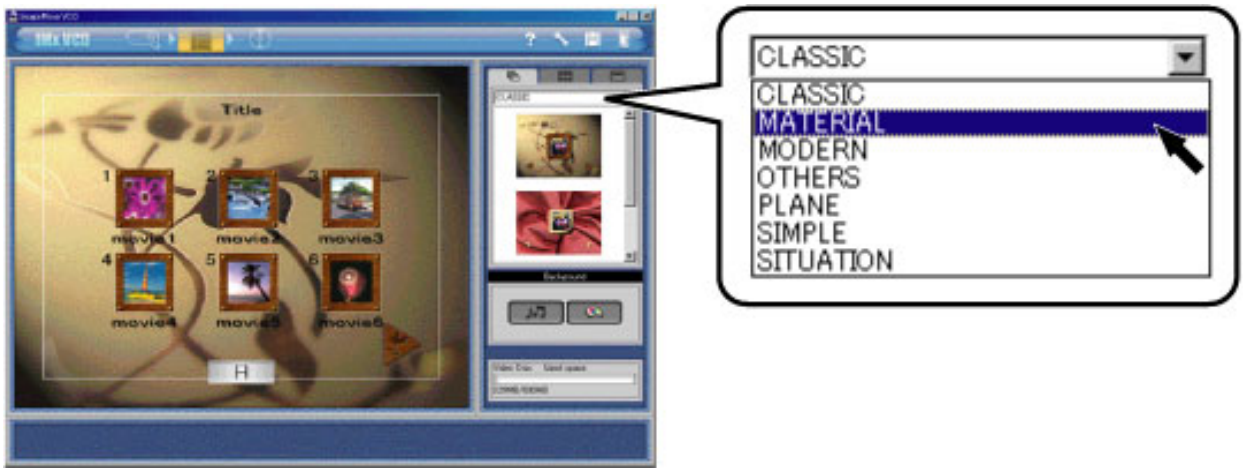
Customize the Menu (3)

Style Settings

Apply a Style to the Menu Screen

1. Click the [Style:] tab to display the [Style:] settings panel.

2. Click to select from the [Style Category]. The style template is displayed.



3. Click the style template to apply the style.
   Your selected style will be applied to the Layout environment screen.

Specify the Background for the Menu Screen

1. Click the [Style:] tab to display the [Style:] settings panel.

2. Follow the steps below to apply a background still image file.

Important
Only still images file can be applied as background images.

Browse

① Click the [Apply background image] button to display the dialog box. ② Select your still image file. ③ Click the [Open] button.

Drag and Drop

Drag and drop the still image file icon directly from the desktop to the [Apply background image] button.

Note

In Windows, you can also apply the background image by dragging and dropping the image from Windows Explorer. Click the [Apply BGM] button and follow the same steps as for applying background images to add audio files as music for your background image.

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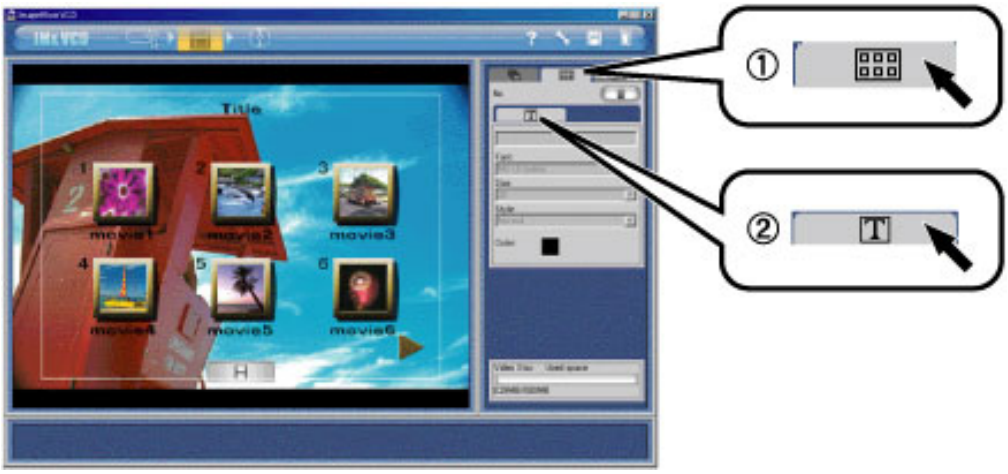
Customize the Menu (4)

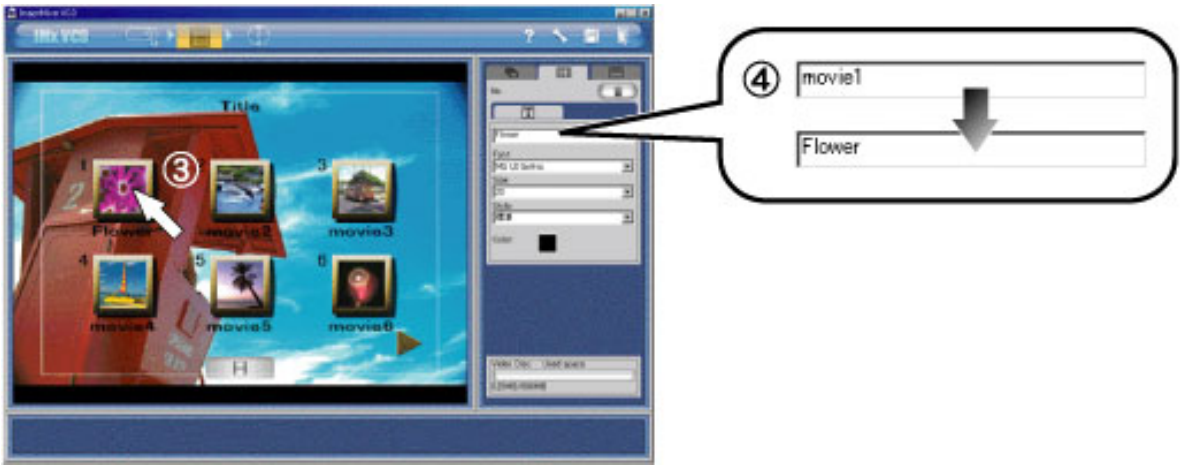
Customize the Movie Button Labels

Rename the Movie Button Labels

1. ① Click the [Movie Buttons] tab. ② Click the [Text] tab to display the Movie Buttons settings panel.

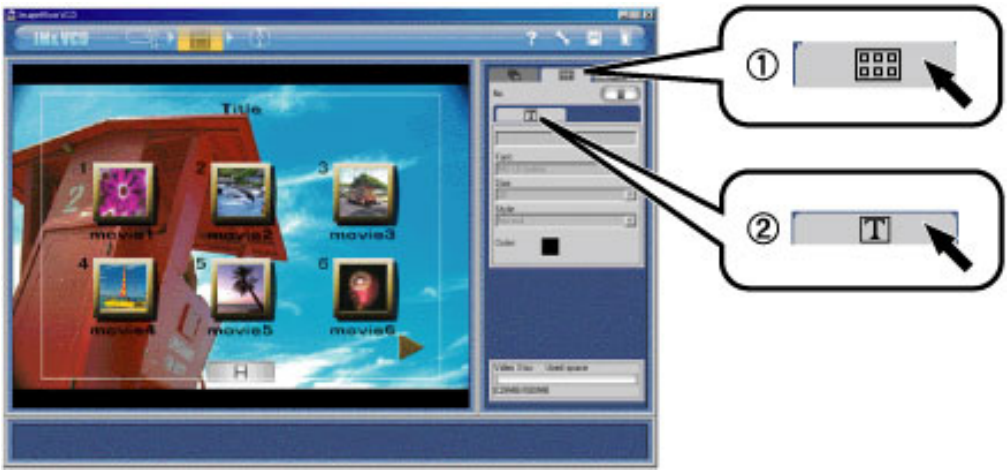


2. ③ Select a movie button shown in the Layout environment screen to display a text box with the current button label.
   ④ Enter the new movie button label.

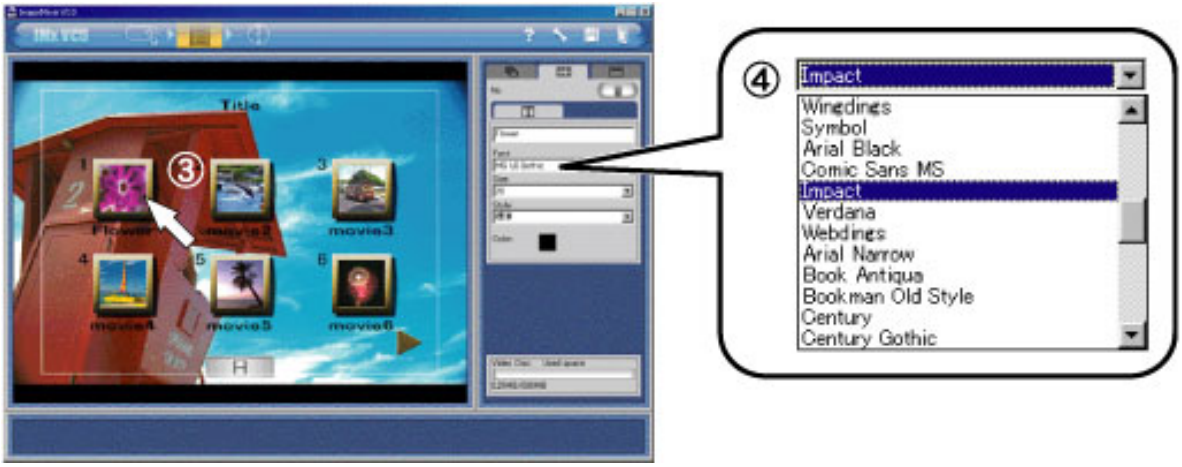


Modify the movie button font settings

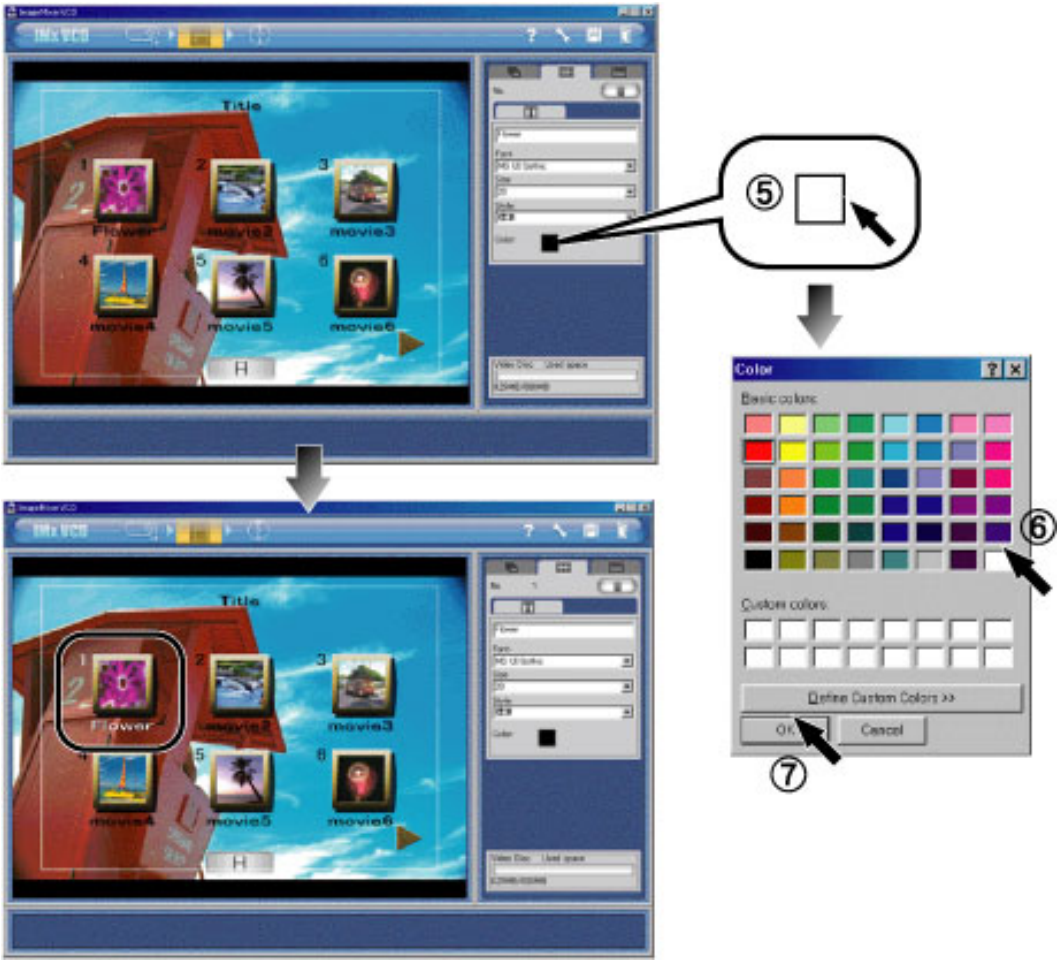
1. ① Click the [Movie Buttons] tab. ② Click the [Text] tab.



2. ③ Select a movie button. ④ Select the label font, size, and style from the dropdown menu.



3. ⑤ Click the font color preview box to display the color palette. ⑥ Select your preferred color for the movie button label. ⑦ Click the [OK] button.



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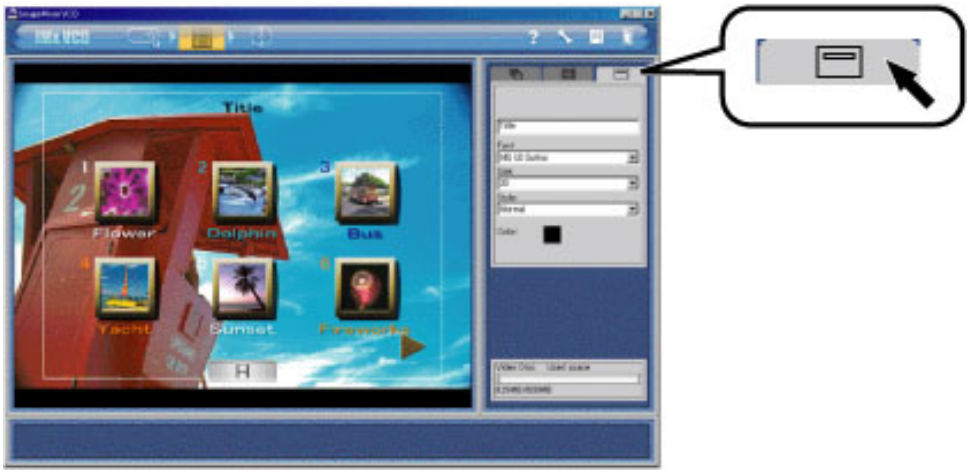
Customize the Menu (5)

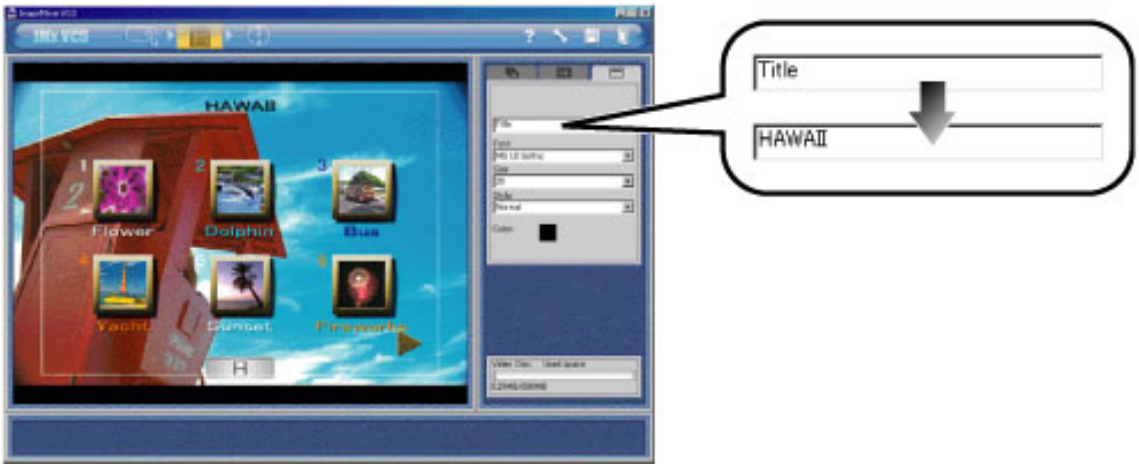
Title Settings for the Menu Screen

Rename the menu screen title

1. Click the [Title] tab to display the [Title] settings panel.



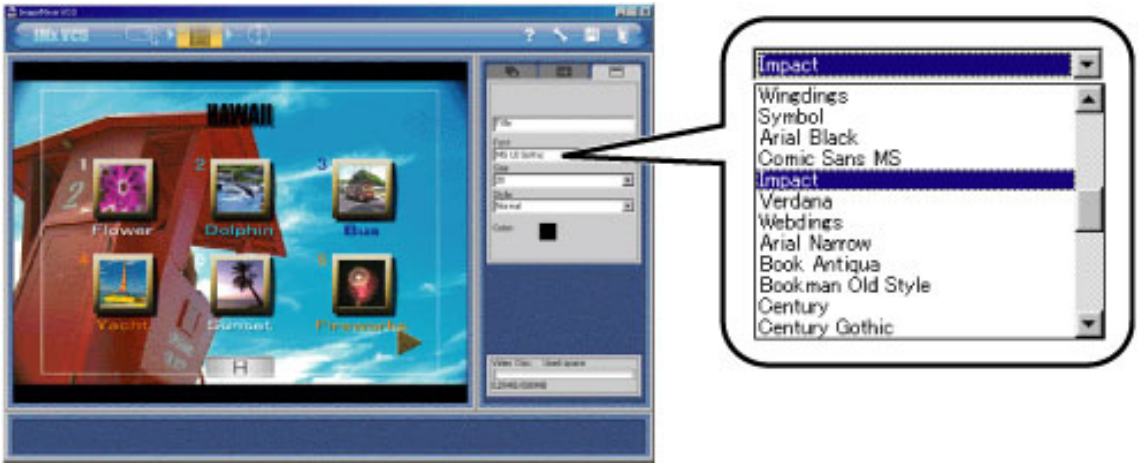
2. The current menu screen title is displayed in the text box. Enter the new title.



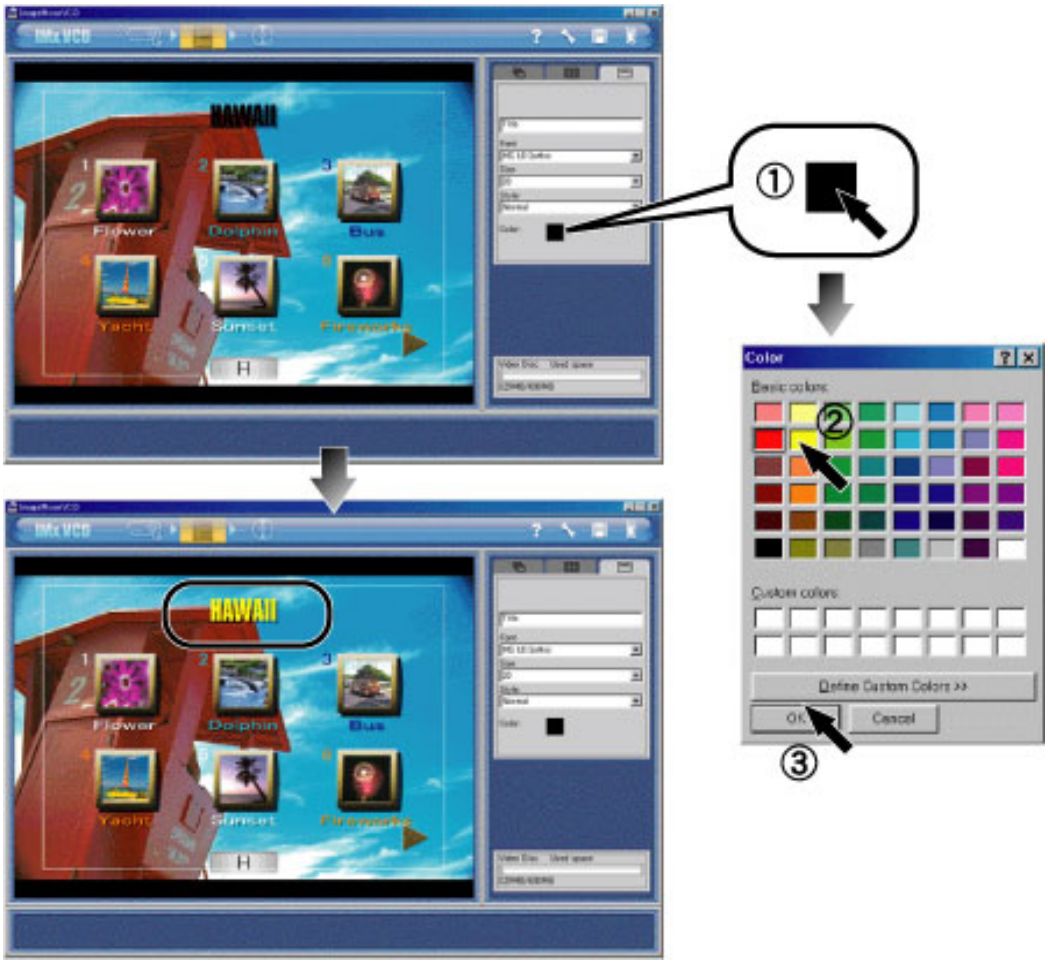
Modify the menu screen title font settings

1. Click the [Title] tab to display the [Title] settings panel.

2. From the dropdown menus, select your preferred title font, size, and style.



3. ① Click the font color preview box to display the color palette. ② Select your preferred color for the title. ③ Click the [OK] button.



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Preview the Video CD

Play a preview to check the results of your authoring.

To play a preview, click the [Preview/Output] button on the Navigation Bar.

The Selection Numbers match the control button numbers, and they correspond to the selection numbers on the remote control of the Video CD playback device.
For example, clicking button [1] of the [Preview] panel will play the movie of selection number [1] on the current menu screen. Clicking button [3] of the [Preview] panel will play the movie of selection number [3] on the current menu screen.

If there are multiple menu screens, click the ① [Previous] button or the ② [Next] button in the [Preview] panel to switch between menu screens.

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Output

Create your Video CD or Video CD image.

Important
Be sure to read the Precautions.

Windows

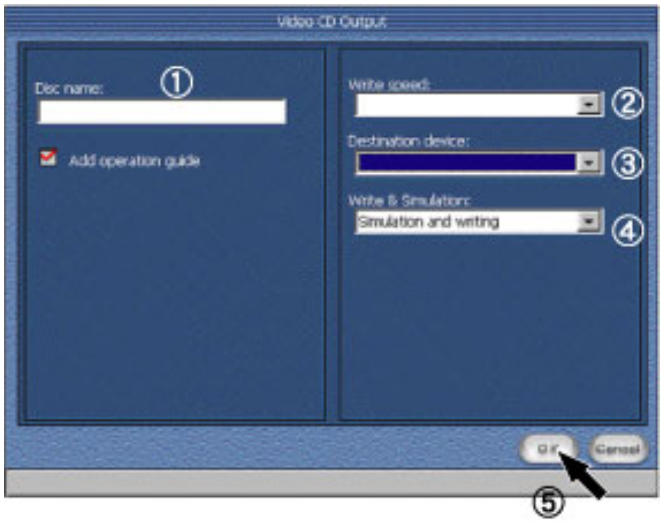
1. Click the [Output] button.

2. The [Video CD Output] dialog box is displayed. ① Enter the disk name for your Video CD.

Important
For the disk name, you can enter up to 30 single-byte letters, numbers, or the underscore symbol.

3. ② Select the recording drive, ③ the write speed, and ④ the recording settings.

4. ⑤ Click the [OK] button to create your Video CD.



Macintosh

Important
Macintosh users cannot record Video CDs directly using IMxVCD. On a Macintosh, use IMxVCD to create a Video CD image that is compatible with the CD burning application Toast by Roxio, Inc. To use Toast for Video CD recording, refer to the separate instructions.

1. Click the [Output] button.

2. The [Create Video CD Output] dialog box is displayed. ① Enter the disk name for the Video CD to be created. ② Specify a folder to save the Video CD image.

Important
For the disk name, you can enter up to 30 single-byte letters, numbers, or the underscore symbol.

3. ③ Click the [OK] button to create your Video CD image.
The Video CD image created will be saved as a file called [Cdimage] in the specified folder.

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Tutorial
Step 1: Add Your Movies
Step 2: Customize the Menu
Step 3: Preview the Video CD
Step 4: Output
Reference
Getting Started
Before Use
Important Notices
IMxVCD Functions
User Environment
Precautions
Uninstallation
Launching IMxVCD
Exiting IMxVCD
Start Screen/Elements
Navigation Bar
Layout environments/Elements
Style Settings Panel
Movie Button Settings Panel
Title Settings Panel
Preview and Output/Elements
Preview Panel
Video CD Output (Windows)
Video CD Image Output (Macintosh)
Preferences
User Interface Notes
Supported File Formats
Glossary
Compatible Recording Drives

Getting Started

Thank you for using ImageMixer with VCD (IMxVCD).
This manual will help you make the most of IMxVCD. To ensure correct use, be sure to read this manual.
Check the ReadMe.txt file (for Windows) or Read Me First (for Macintosh) for any late-breaking news that we could not include here.

Homepage
The latest information on ImageMixer can be found on our home page:
http://www.imagemixer.com/

Before Use

Software and User's Guide Precautions

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- We have taken all possible measures for accuracy in preparing the content of this manual. However, if you happen to notice any inaccuracies, please contact us.
- This manual does not include basic operating instructions for Windows and Macintosh computers. The basic user tasks for this software, such as windows operations, are based on general Windows and Macintosh tasks.
- Most screenshots used for examples in this manual are from the Windows environment. There may be a slight difference in screen appearance between Windows and Macintosh environments. In some cases, the image fit may be inexact.
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- This manual identifies caution items with this symbol: [Important]. Helpful items for your consideration are marked with [Note] and [Browse*] is used to refer you to other pages with additional information.Click the hyperlinks to jump to pages with related content.
- In this manual, the symbol [ ] instructs you to click; [ ] indicates to double-click, and [ ] is for drag and drop.

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Tutorial
Step 1: Add Your Movies
Step 2: Customize the Menu
Step 3: Preview the Video CD
Step 4: Output
Reference
Getting Started
Before Use
Important Notices
IMxVCD Functions
User Environment
Precautions
Uninstallation
Launching IMxVCD
Exiting IMxVCD
Start Screen/Elements
Navigation Bar
Layout environments/Elements
Style Settings Panel
Movie Button Settings Panel
Title Settings Panel
Preview and Output/Elements
Preview Panel
Video CD Output (Windows)
Video CD Image Output (Macintosh)
Preferences
User Interface Notes
Supported File Formats
Glossary
Compatible Recording Drives

Important Notices

Before installing IMxVCD, please read the following software licensing agreement. By installing IMxVCD, you agree to the conditions presented below.

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Tutorial
Step 1: Add Your Movies
Step 2: Customize the Menu
Step 3: Preview the Video CD
Step 4: Output
Reference
Getting Started
Before Use
Important Notices
IMxVCD Functions
User Environment
Precautions
Uninstallation
Launching IMxVCD
Exiting IMxVCD
Start Screen/Elements
Navigation Bar
Layout environments/Elements
Style Settings Panel
Movie Button Settings Panel
Title Settings Panel
Preview and Output/Elements
Preview Panel
Video CD Output (Windows)
Video CD Image Output (Macintosh)
Preferences
User Interface Notes
Supported File Formats
Glossary
Compatible Recording Drives

IMxVCD Functions

Create your own Video CDs!

IMxVCD is authoring software for creating Video CDs that conform to the standards described below. Video CD is an abbreviation for Video Compact Disc. Stated simply, a Video CD is a recording of video images (in MPEG-1 format, similar in quality to VHS or videotapes) and audio data produced by a recording drive. Video CDs can be played on compatible computers and DVD players.

Standards of Video CD Created with IMxVCD

IMxVCD creates Video CD and Video CD images that conform to the Video CD Ver2.0 standard. This standard offers advantages such as playback control functions, which allow users to access menus to choose the playback order.
It supports the common TV signal formats NTSC and PAL.
The image bitrate is 1.15 Mbps, and the resolution is 352x240 pixels (30 fps) for NTSC and 352x288 pixels (25 fps) for PAL. The audio format is MPEG-1 (Layer 2) at 224 kbps, in 1 stereo or 2 mono channels.

Using IMxVCD to Create Video CDs (for Windows)

In the past, the main recording method involved creating a Video CD image and then using CD recording software to record it. Now you can use IMxVCD for direct recording with devices such as CD-R drives that support Video CD burning. There's no need for CD recording software. Right after authoring, you're ready to record.

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Tutorial
Step 1: Add Your Movies
Step 2: Customize the Menu
Step 3: Preview the Video CD
Step 4: Output
Reference
Getting Started
Before Use
Important Notices
IMxVCD Functions
User Environment
Precautions
Uninstallation
Launching IMxVCD
Exiting IMxVCD
Start Screen/Elements
Navigation Bar
Layout environments/Elements
Style Settings Panel
Movie Button Settings Panel
Title Settings Panel
Preview and Output/Elements
Preview Panel
Video CD Output (Windows)
Video CD Image Output (Macintosh)
Preferences
User Interface Notes
Supported File Formats
Glossary
Compatible Recording Drives

User Environment

Note that even if your operating environment meets the requirements for IMxVCD, we cannot guarantee that all functions will be available.

Windows

Compatible Operating Systems
IBM PC/AT-compatible computers (running DOS/V) with one of the following preinstalled OS: Microsoft ® Windows ® 98, Windows ® 98 Second Edition, Windows ® 2000 Professional, Windows ® Millennium Edition, Windows ® XP Home Edition, Windows ® XP Professional

Processors
Intel Pentium ® MMX ®, 200 MHz and faster (Recommended: Pentium ® III, 800 MHz and faster)

Required Software
DirectX 8.0a or later

Memory
64 MB or more (Recommended: 128 MB or more)

Hard Disk Capacity
When you create a Video CD, three times more memory is required than the size of the Video CD.

Display
A video card with 4 MB of VRAM (video memory)
Resolution of 800×600 dots or more set at High Color (16-bit color for 65,000 colors)
Direct Draw driver-compatible

Important
Normal operation is unavailable at resolutions under 800×600 dots and with less than 256 colors.

Sound
A 16-bit stereo sound card and speakers

Other Requirements

- This software uses DirectX technology. Before use, make sure that DirectX is installed on your computer.
- Creating a Video CD requires a user environment supporting a recording device and recording software as described separately.
- Installing and using this software in Windows ® 2000 Professional requires PowerUser or Administrator privileges.In Windows ® XP, it requires Administrator privileges

Macintosh

Compatible Models

PowerMacG4, PowerBookG4, PowerBookG3, iBook, iMac, and the eMac series with a PowerPCG3/400, Power PCG4/400 or later processor running MacOS9.0.4 or later. Does not run in Mac OS X or Mac OS X: Classic.

Memory
Application operating memory of 64 MB or more (recommended: 128 MB or more)

Hard Disk Capacity
When you create a Video CD image, three times more memory is required than the size of the Video CD.

Display
Resolution of 800×600 dots or more set at 32,000 colors or more

Important
Normal operation is unavailable at resolutions under 800×600 dots and with less than 256 colors.

Other Requirements

- User environment with QuickTime4 or later
- Creating a Video CD requires a user environment supporting a recording device and the CD burning application Toast by Roxio, Inc. as described separately.

Precautions

Checklist for Correct IMxVCD Operation

- Before using IMxVCD to create a Video CD, make sure that your recording drive is working normally.
- The operating environment recommended by the recording drive manufacturer is required to burn Video CDs. Be sure to follow the manufacturer's instructions and note the caution items.
- Use the CD-ROM media recommended by the manufacturer.
- Ensure that no software or drivers are installed that might interfere with Video CD creation.
- To create a Video CD, you must use one of the recording drives described separately.
- We cannot guarantee operation in Video CD creation for models not listed among the verified recording drives.
- Certain models of playback devices cannot play Video CDs created by recording drives.
- For Windows users, we recommend that your hard disk be set to DMA transfer mode.
- Disk creation can be affected screen savers, system agents, and other timed software, as well as other memory-resident running during Video CD creation. Before creating your disk, exit all applications except IMxVCD.
- Ensure that you have sufficient hard disk capacity available. Extremely limited memory capacity prevents normal Video CD creation.
- Video CDs cannot be burned correctly using prerecorded CD-ROMs or disks that are damaged or dirty.

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Tutorial
Step 1: Add Your Movies
Step 2: Customize the Menu
Step 3: Preview the Video CD
Step 4: Output
Reference
Getting Started
Before Use
Important Notices
IMxVCD Functions
User Environment
Precautions
Uninstallation
Launching IMxVCD
Exiting IMxVCD
Start Screen/Elements
Navigation Bar
Layout environments/Elements
Style Settings Panel
Movie Button Settings Panel
Title Settings Panel
Preview and Output/Elements
Preview Panel
Video CD Output (Windows)
Video CD Image Output (Macintosh)
Preferences
User Interface Notes
Supported File Formats
Glossary
Compatible Recording Drives

Uninstallation

Uninstall IMxVCD following the steps below.

Windows

1. Click [Start], go to [Settings], and select [Control Panels].
2. Double-click [Add/Remove Programs].
3. Select "ImageMixer with VCD " from the list and click the [Delete] button.
   A dialog box is displayed to verify deletion.
4. Click the [OK] button.
   The program will be uninstalled.
5. When the dialog box is displayed for completion of uninstallation, click the [Finish] button.
6. The folder [Program Files]-[Pixela]-[ImageMixer] is deleted.

Macintosh

1. Locate the file "IMx_VCDVPreferenceFolder" in the [Default Settings] folder in the [System Folder]. Drag it to the Trash.
2. Drag the [ImageMixer] folder from the hard disk to the Trash.

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Tutorial
Step 1: Add Your Movies
Step 2: Customize the Menu
Step 3: Preview the Video CD
Step 4: Output
Reference
Getting Started
Before Use
Important Notices
IMxVCD Functions
User Environment
Precautions
Uninstallation
Launching IMxVCD
Exiting IMxVCD
Start Screen/Elements
Navigation Bar
Layout environments/Elements
Style Settings Panel
Movie Button Settings Panel
Title Settings Panel
Preview and Output/Elements
Preview Panel
Video CD Output (Windows)
Video CD Image Output (Macintosh)
Preferences
User Interface Notes
Supported File Formats
Glossary
Compatible Recording Drives

Launching IMxVCD

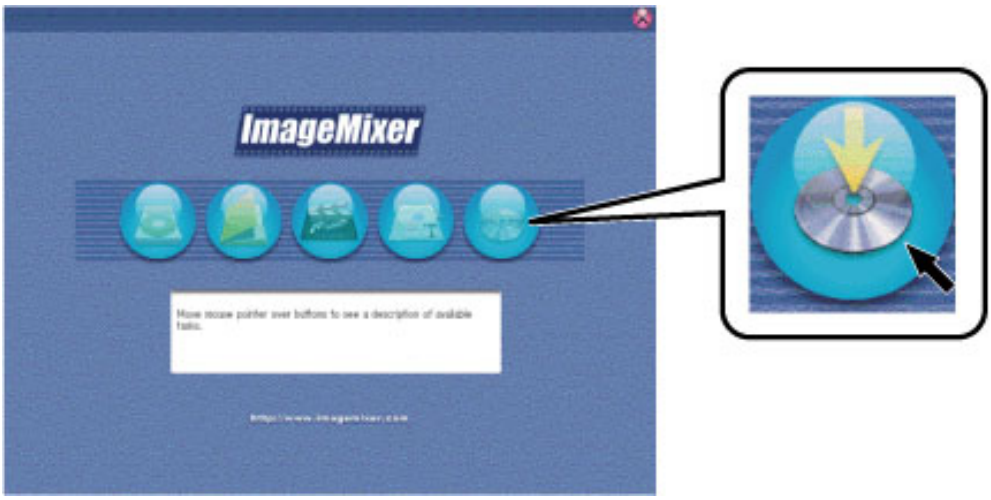
Follow the steps below to launch IMxVCD after installation on your computer.

Windows

1. Click [Start], go to [Programs]-[Pixela]-[ImageMixer VCD], and select [ImageMixer with VCD] to launch ImageMixer.

   Note
   If you created a shortcut during installation, you can double-click on the [ImageMixer with VCD] shortcut icon on your desktop to launch ImageMixer.

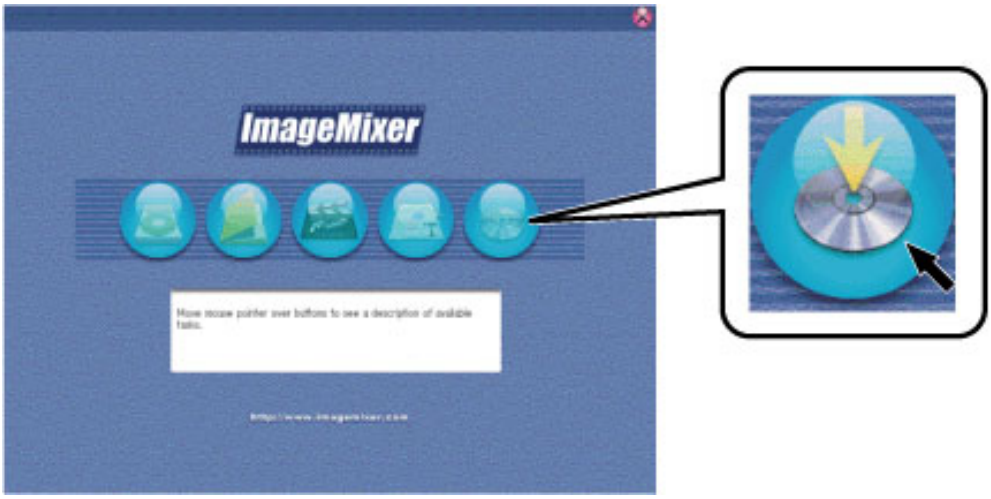
2. When the mode selector is displayed, click the [IMxVCD] button at the far right to launch IMxVCD.



Macintosh

1. You can also launch ImageMixer by double-clicking on the [ImageMixer with VCD] icon in the [ImageMixer] folder created on your hard disk during installation.

2. When the mode selector is displayed, click the [IMxVCD] button at the far right to launch IMxVCD.



Exiting IMxVCD

To quit IMxVCD, follow the steps below.

Windows

On the Navigation Bar, ① click the [Quit] button. Or, ② in the IMxVCD application window, click the [Close] button to quit IMxVCD.

Macintosh

On the Navigation Bar, ① click the [Quit] button. Or, ② on the menu bar, click the [File] and select [Quit]. You can also quit IMxVCD by holding the [Command] key while pressing [Q] key.

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Tutorial
Step 1: Add Your Movies
Step 2: Customize the Menu
Step 3: Preview the Video CD
Step 4: Output
Reference
Getting Started
Before Use
Important Notices
IMxVCD Functions
User Environment
Precautions
Uninstallation
Launching IMxVCD
Exiting IMxVCD
Start Screen/Elements
Navigation Bar
Layout environments/Elements
Style Settings Panel
Movie Button Settings Panel
Title Settings Panel
Preview and Output/Elements
Preview Panel
Video CD Output (Windows)
Video CD Image Output (Macintosh)
Preferences
User Interface Notes
Supported File Formats
Glossary
Compatible Recording Drives

Start Screen/Elements

After IMxVCD is launched, the first screen displayed is the "Start Screen". The elements of the "Start Screen" are described below.

① Navigation Bar
Remains displayed in the IMxVCD application window. Use it to switch between operating modes.

② [Video CD] button
Click this button to switch to Video CD Output mode. Video CDs are created under VCD Ver2.0 standards, enabling you to use the remote control of the playback device to control playback operations.

③ [DVD Video] button
Click this button to switch to DVD Video output mode.
This function is unsupported in the current version. Please upgrade to use this function.

④ [Open Project] button
Click this button to display a dialog box for selection of a saved project file. Open projects you have saved during authoring to continue working on them. Choose from files with the extension [*.pvd].

⑤ Help window
When you move the cursor over buttons and other items, this Help window displays explanations.

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Tutorial
Step 1: Add Your Movies
Step 2: Customize the Menu
Step 3: Preview the Video CD
Step 4: Output
Reference
Getting Started
Before Use
Important Notices
IMxVCD Functions
User Environment
Precautions
Uninstallation
Launching IMxVCD
Exiting IMxVCD
Start Screen/Elements
Navigation Bar
Layout environments/Elements
Style Settings Panel
Movie Button Settings Panel
Title Settings Panel
Preview and Output/Elements
Preview Panel
Video CD Output (Windows)
Video CD Image Output (Macintosh)
Preferences
User Interface Notes
Supported File Formats
Glossary
Compatible Recording Drives

Navigation Bar

The Navigation Bar remains displayed in the IMxVCD application window. Use it to switch between operating modes.

① [Start] button
Click this button to display the Start Screen.
The Start Screen is the first screen displayed after you launch IMxVCD.

② [Layout environment] button
Click this button to display the Layout environment screen.
This screen is for designing movie buttons and backgrounds displayed on the menu screen during playback of your Video CD

③ [Preview/Output] button.
Click this button to display the Preview/Output screen.
Use it to check the results of your authoring or to create Video CDs or Video CD images.

④ [Help] button
Click this button display the Help file (this document).

⑤ [Preference] button
Click this button to display the [Preference] dialog box. Use it to specify your desired IMxVCD preferences.

⑥ [Save Project] button
Click this button to save your current authoring work as a project file. During authoring, you can save your work anytime as a project. The next time you open the saved project file, you can continue working on it from the state of authoring at the time of saving.

⑦ [Quit] button
Click this button to exit IMxVCD.

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Tutorial
Step 1: Add Your Movies
Step 2: Customize the Menu
Step 3: Preview the Video CD
Step 4: Output
Reference
Getting Started
Before Use
Important Notices
IMxVCD Functions
User Environment
Precautions
Uninstallation
Launching IMxVCD
Exiting IMxVCD
Start Screen/Elements
Navigation Bar
Layout environments/Elements
Style Settings Panel
Movie Button Settings Panel
Title Settings Panel
Preview and Output/Elements
Preview Panel
Video CD Output (Windows)
Video CD Image Output (Macintosh)
Preferences
User Interface Notes
Supported File Formats
Glossary
Compatible Recording Drives

Layout environments/Elements

Use the menu layout functions to design the menu screen displayed when you play a Video CD. The elements of the "Layout environment screen" are described below.

Reference
Refer to the Tutorial (Step1) .

① Navigation Bar
Remains displayed in the IMxVCD application window. Use it to switch between operating modes.

② Layout environment
Add movies to the layout. The menu screen displayed when you play your Video CD will match this Layout environment screen.

③ Movie buttons
Each movie that you add will be displayed as a movie button. You can change how the movie buttons are arranged by using Apply Style Template. You can arrange up to 6 movie buttons on a single menu screen.

④ Selection Numbers
These numbers correspond to the selection numbers on the remote control of the playback device for the Video CD. For example, when you press [2] on the remote control, the movie of selection button [2] will be played.

⑤ [Previous Menu] button
Click this button to display the menu before the current menu. Only displayed when there is a previous menu screen.

⑥ [Next Menu] button
Click this button to display the menu after the current menu. Only displayed when there is another menu screen following the current screen.

⑦ [Add Movie] button

Click this button to display a dialog box for selection of movie files to be added as movie buttons.

Important

You can continue adding movies until the capacity indicator bar is full. However, when the number of movies reaches 97 for a single project, no more can be added.

Note

You can also drag and drop movies to add them to the Layout environment.

⑧ Settings panel

The Settings panel displays the settings for the Style, the movie buttons, and the Title.

⑨ Capacity indicator

The indicator displays the total memory requirement for the movies in your project with respect to your CD-ROM media. The capacity level required increases with each movie you add.

Important

When the bar is full, no more movies can be added.

⑩ Help window

When you move the cursor over buttons and other items, this Help window displays explanations.

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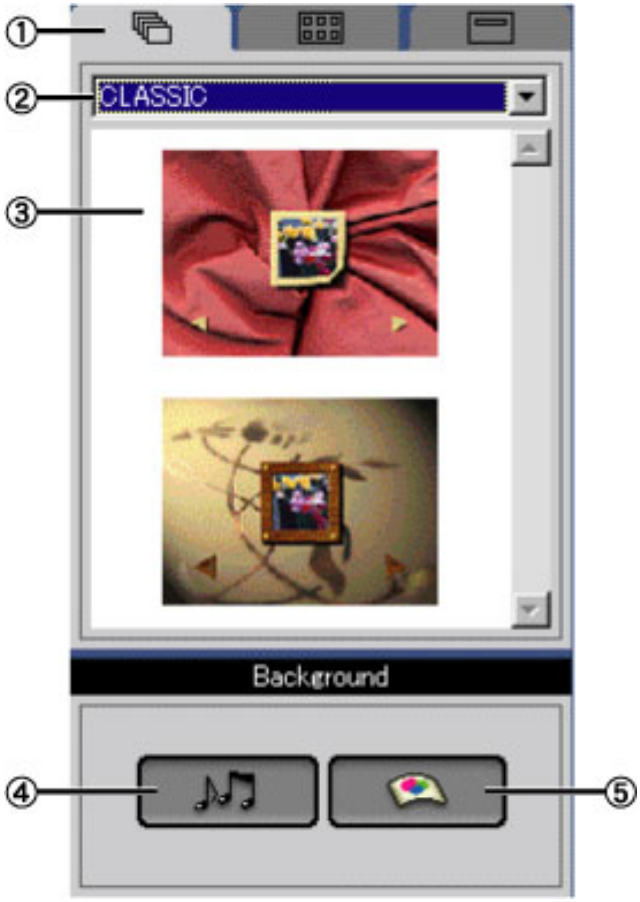
Tutorial
Step 1: Add Your Movies
Step 2: Customize the Menu
Step 3: Preview the Video CD
Step 4: Output
Reference
Getting Started
Before Use
Important Notices
IMxVCD Functions
User Environment
Precautions
Uninstallation
Launching IMxVCD
Exiting IMxVCD
Start Screen/Elements
Navigation Bar
Layout environments/Elements
Style Settings Panel
Movie Button Settings Panel
Title Settings Panel
Preview and Output/Elements
Preview Panel
Video CD Output (Windows)
Video CD Image Output (Macintosh)
Preferences
User Interface Notes
Supported File Formats
Glossary
Compatible Recording Drives

Style Settings Panel

Click the [Style:] tab to display the [Style:] settings panel for selection of a style template.

Reference
Refer to the Tutorial (Step 2) .



① [Style:] tab
Click this button to display the [Style:] settings panel. Use the [Style:] settings panel to design menus, specify the background, and customize other style settings for the menu screen.

② [Style Category] menu
Select your desired style category from this dropdown menu. You can switch between style templates by selecting them from this menu.

③ Style Templates
Displays the [Style Category] menu selection as a template. Click the template thumbnail to apply the style.

④ [Apply Sound] button
For combining audio files (such as background music) with the background image of the menu screen.
Click this button to display a dialog box for selection of audio files to apply. If audio files are already applied when you click this button, a dialog box will be displayed allowing you to remove them. By removing the audio files, you can add different ones.
You can also apply audio files by dragging the icons directly from your desktop and dropping them on the button. If audio files already exist, a dialog box is displayed allowing you to

overwrite them.

⑤ [Apply background image] button

For applying a background image to the menu screen.

Click this button to display a dialog box for selection of still image files to apply. If image files are already applied when you click this button, a dialog box will be displayed allowing you to remove them. By removing the still image files, you can add different ones.

You can also apply still image files by dragging the icons directly from your desktop and dropping them on the button. If audio files already exist, a dialog box is displayed allowing you to overwrite them.

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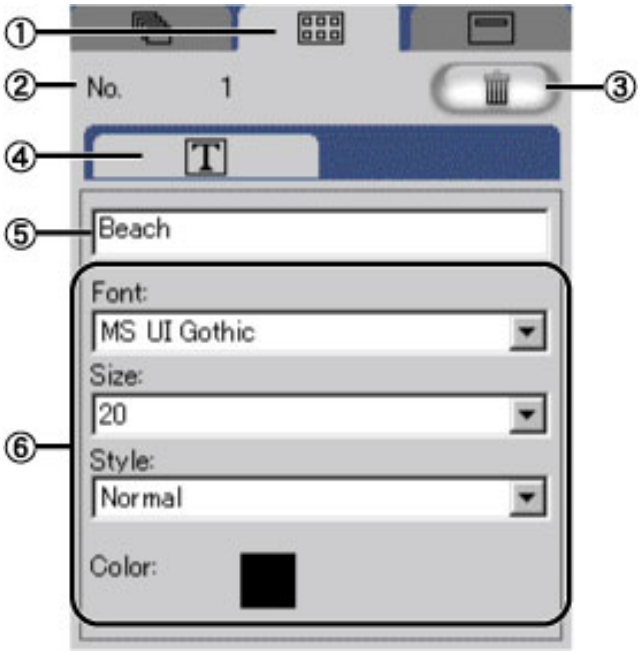
Tutorial
Step 1: Add Your Movies
Step 2: Customize the Menu
Step 3: Preview the Video CD
Step 4: Output
Reference
Getting Started
Before Use
Important Notices
IMxVCD Functions
User Environment
Precautions
Uninstallation
Launching IMxVCD
Exiting IMxVCD
Start Screen/Elements
Navigation Bar
Layout environments/Elements
Style Settings Panel
Movie Button Settings Panel
Title Settings Panel
Preview and Output/Elements
Preview Panel
Video CD Output (Windows)
Video CD Image Output (Macintosh)
Preferences
User Interface Notes
Supported File Formats
Glossary
Compatible Recording Drives

Movie Button Settings Panel

"Movie buttons"s are the buttons displayed on the menu screen when you play a Video CD. The Selection Numbers of the movie buttons correspond to the buttons on the remote control of the playback device.

Reference
Refer to the Tutorial (Step 2) .



① [Movie Buttons] tab
Click this button to display the [Movie Buttons] settings panel.

② Selection Numbers
Indicates the Selection Number assigned to the movie button in the Layout environment screen.

③ [Delete] button
Deletes movie buttons selected in the Layout environment screen. Deletion cannot be cancelled.

④ [Text] tab
Click this button to display the text settings panels for customizing movie button labels.

⑤ Movie Button Label
Normally, the file name of a movie file you add is used as its movie button label, but you can change the name by entering a new one in this text box. The source file name is not changed. You can enter up to 63 single-byte characters.

⑥ Font, Size, Style, and Color
For specifying these respective text attributes of the movie button labels.
From the dropdown menus, select your preferred font, size, and style.You can change the font color by clicking the preview box to select your desired color from the color palette.

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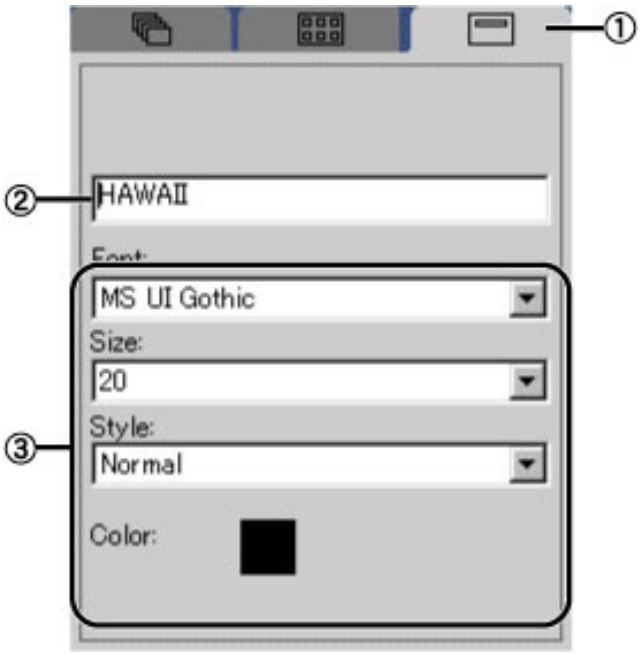
Tutorial
Step 1: Add Your Movies
Step 2: Customize the Menu
Step 3: Preview the Video CD
Step 4: Output
Reference
Getting Started
Before Use
Important Notices
IMxVCD Functions
User Environment
Precautions
Uninstallation
Launching IMxVCD
Exiting IMxVCD
Start Screen/Elements
Navigation Bar
Layout environments/Elements
Style Settings Panel
Movie Button Settings Panel
Title Settings Panel
Preview and Output/Elements
Preview Panel
Video CD Output (Windows)
Video CD Image Output (Macintosh)
Preferences
User Interface Notes
Supported File Formats
Glossary
Compatible Recording Drives

Title Settings Panel

Click the [Title] tab to display the [Title] settings panel, where you can specify the title and customize the text settings for the menu screen title.

Reference
Refer to the Tutorial (Step 2) .



① [Title] tab
Click this button to display the [Title] settings panel.

② Title
Enter the menu screen title to be displayed when your Video CD is played. You can enter up to 63 single-byte characters.

③ Font, Size, Style, and Color
For specifying these respective text attributes of the title.
From the dropdown menus, select your preferred font, size, and style. You can change the font color by clicking the preview box to select your desired color from the color palette.

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Tutorial
Step 1: Add Your Movies
Step 2: Customize the Menu
Step 3: Preview the Video CD
Step 4: Output
Reference
Getting Started
Before Use
Important Notices
IMxVCD Functions
User Environment
Precautions
Uninstallation
Launching IMxVCD
Exiting IMxVCD
Start Screen/Elements
Navigation Bar
Layout environments/Elements
Style Settings Panel
Movie Button Settings Panel
Title Settings Panel
Preview and Output/Elements
Preview Panel
Video CD Output (Windows)
Video CD Image Output (Macintosh)
Preferences
User Interface Notes
Supported File Formats
Glossary
Compatible Recording Drives

Preview and Output/Elements

This section explains how to preview the results of your authoring to check how it will play when recorded on your Video CD. The Video CD recording process is also described below.

① Navigation Bar
Remains displayed in the IMxVCD application window. Use it to switch between operating modes.

② Preview window
Check how the content you have prepared will play on a Video CD in this window.

③ Selection Numbers
These numbers match the control button numbers in the [Preview] panel, and they correspond to the selection numbers on the remote control for your Video CD playback device.

④ [Preview] panel
Displays Control Buttons for a preview simulating a remote control.

⑤ [Output] button
Click this button to display the [Video CD Output] dialog box. A different dialog box is displayed depending on whether you are a Windows or Macintosh user.

⑥ Capacity indicator
The indicator displays the total memory requirement for the movies in your project with respect to your CD-ROM media.

⑦ Help window
When you move the cursor over buttons and other items, this Help window displays explanations.

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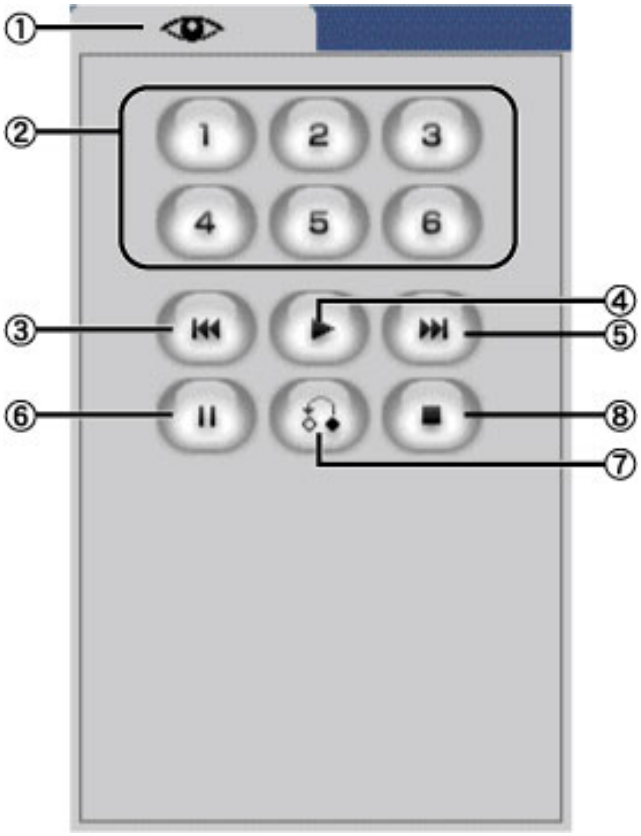
Tutorial
Step 1: Add Your Movies
Step 2: Customize the Menu
Step 3: Preview the Video CD
Step 4: Output
Reference
Getting Started
Before Use
Important Notices
IMxVCD Functions
User Environment
Precautions
Uninstallation
Launching IMxVCD
Exiting IMxVCD
Start Screen/Elements
Navigation Bar
Layout environments/Elements
Style Settings Panel
Movie Button Settings Panel
Title Settings Panel
Preview and Output/Elements
Preview Panel
Video CD Output (Windows)
Video CD Image Output (Macintosh)
Preferences
User Interface Notes
Supported File Formats
Glossary
Compatible Recording Drives

Preview Panel

The movie buttons of the Video CD you have prepared have Selection Numbers that will be accessible from the remote control of the playback device. The preview is displayed by simulating the remote control operation.

Reference
Refer to the Tutorial (Step 3) .



① Buttons [1] to [6]
Click one of these buttons to play the movie with the corresponding Selection Number. For example, clicking the [2] button in the [Preview] panel will play the movie in the position of selection number [2].

② [Previous] button
Click this button to play the previous movie or display the previous menu screen.

③ [Play] button
Click this button to restore play after pausing or stopping.

④ [Next] button
Click this button to play the next movie or display the next menu screen.

⑤ [Pause] button
Click this button to stop play momentarily.

⑥ [Return] button
Click this button to return to the menu screen with the movie button corresponding to the movie that is currently playing.

⑦ [Stop] button
Click this button to stop play.

Important
These control buttons may not necessarily match the operations of the remote control for the playback device.
For example, in some cases the playback device requires you to press [1] and then [Play] for playback. Consult the manual for the playback device remote control.

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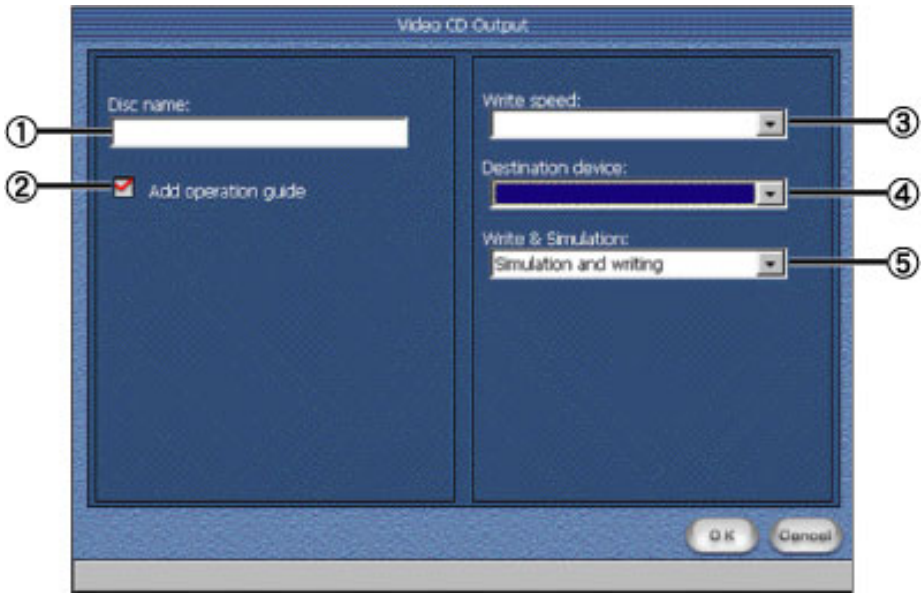
Tutorial
Step 1: Add Your Movies
Step 2: Customize the Menu
Step 3: Preview the Video CD
Step 4: Output
Reference
Getting Started
Before Use
Important Notices
IMxVCD Functions
User Environment
Precautions
Uninstallation
Launching IMxVCD
Exiting IMxVCD
Start Screen/Elements
Navigation Bar
Layout environments/Elements
Style Settings Panel
Movie Button Settings Panel
Title Settings Panel
Preview and Output/Elements
Preview Panel
Video CD Output (Windows)
Video CD Image Output (Macintosh)
Preferences
User Interface Notes
Supported File Formats
Glossary
Compatible Recording Drives

Video CD Output (Windows)

On the Writing environment screen, click the [Output] button in the [Preview] panel. This section describes the [Video CD Output] dialog box that is displayed in Windows.

Important
Be sure to read the Precautions.



① Disc name
Enter a name for the Video CD to be created. For the disk name, you can enter up to 30 single-byte letters, numbers, or the underscore symbol.

② Add operation guide
Clicking this check box will insert a IMxVCD-created screen explaining operations before the Video CD is played.

③ Speed Selection
Choose the Video CD recording speed from the dropdown menu. For example, [2x] indicates double speed and [4x] is for quad-speed.

Important
In some cases, slower recording drives such those connected through a USB interface cannot produce normal recordings at speeds set too high. Use the speed recommended by the CD-R manufacturer.

④ CD-R Drive Selection
The dropdown menu lists the drives that support CD recording. Select the preferred recording drive for recording.

⑤ Write & Simulation
From the dropdown menu, choose whether to perform a recording test before recording.

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Tutorial
Step 1: Add Your Movies
Step 2: Customize the Menu
Step 3: Preview the Video CD
Step 4: Output
Reference
Getting Started
Before Use
Important Notices
IMxVCD Functions
User Environment
Precautions
Uninstallation
Launching IMxVCD
Exiting IMxVCD
Start Screen/Elements
Navigation Bar
Layout environments/Elements
Style Settings Panel
Movie Button Settings Panel
Title Settings Panel
Preview and Output/Elements
Preview Panel
Video CD Output (Windows)
Video CD Image Output (Macintosh)
Preferences
User Interface Notes
Supported File Formats
Glossary
Compatible Recording Drives

Video CD Image Output (Macintosh)

On the Writing environment screen, click the [Output] button in the [Preview] panel. This section describes the [Video CD Output] dialog box that is displayed for Macintosh users.

Important

Be sure to read the Precautions.

Macintosh users cannot directly record Video CDs using IMxVCD. On a Macintosh, use IMxVCD to create a Video CD image that is compatible with the CD burning application Toast by Roxio, Inc. To use Toast for Video CD recording, refer to the separate instructions.

① Disc name

Enter a name for the Video CD image to be created. For the disk name, you can enter up to 30 single-byte letters, numbers, or the underscore symbol.

② Saving the Video CD Image

The Video CD will be created from the current project. Click the [Browse•E button to specify a folder for saving.

Important

The Video CD image created will be saved as a file called [Cdimage] in the specified folder. If the folder contains Video CD image files with the same name, numbers will be added to distinguish new files in the order they are created, such as [Cdimage1], [Cdimage2], [Cdimage3].

③ Add operation guide

Clicking this check box will insert a IMxVCD-created screen explaining operations before the Video CD is played.

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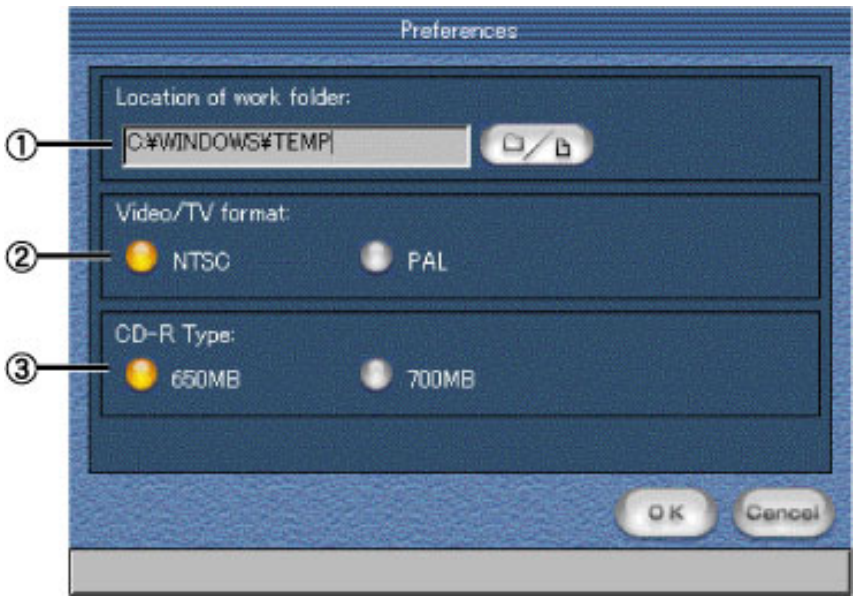
Tutorial
Step 1: Add Your Movies
Step 2: Customize the Menu
Step 3: Preview the Video CD
Step 4: Output
Reference
Getting Started
Before Use
Important Notices
IMxVCD Functions
User Environment
Precautions
Uninstallation
Launching IMxVCD
Exiting IMxVCD
Start Screen/Elements
Navigation Bar
Layout environments/Elements
Style Settings Panel
Movie Button Settings Panel
Title Settings Panel
Preview and Output/Elements
Preview Panel
Video CD Output (Windows)
Video CD Image Output (Macintosh)
Preferences
User Interface Notes
Supported File Formats
Glossary
Compatible Recording Drives

Preferences

Use it to specify your desired IMxVCD preferences.



① Working Folder (Windows)/Workspace (Macintosh)
Specify the folder or hard disk for your working with IMxVCD. Insufficient memory can lead to performance problems, so choose a hard disk with the greatest capacity available.

② Video/TV format
Select a format Video format for the Video CD you create.
You can choose between NTSC and PAL formats. NTSC is the format generally used for television broadcasts in the U.S., Japan, and elsewhere. NTSC images consist of 525 scanning lines, and the replay rate is 30 frames per second.
PAL is the format generally used for television broadcasts in Europe, China, and elsewhere. PAL images consist of 625 scanning lines, and the replay rate is 25 frames per second.

NTSC	Japan, United States of America, Canada, South Korea, Taiwan, Chile, Philippines, Peru, and Mexico
PAL	Argentina, United Kingdom, Italy, India, Indonesia, Australia, Austria, Netherlands, Canary Islands, North Korea, Greece, Kenya, Saudi Arabia, Singapore, Switzerland, Sweden, Spain, Thailand, Czechoslovakia, China, Denmark, Turkey, Germany, Nigeria, New Zealand, Norway, Pakistan, Finland, Brazil, Belgium, Poland, Portugal, Hong Kong, Malaysia, South Africa, and the former Yugoslavia region

③ CD-R Type
Select the disk capacity.

User Interface Notes

IMxVCD displays dialog boxes such as the one depicted below.

means [OK] or [Yes]

means [Cancel] or [No]

Supported File Formats

IMxVCD supports the following file formats.

- AVI
- QuickTime Movie (Macintosh only)
- MPEG-1 (Windows only)

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Tutorial
Step 1: Add Your Movies
Step 2: Customize the Menu
Step 3: Preview the Video CD
Step 4: Output
Reference
Getting Started
Before Use
Important Notices
IMxVCD Functions
User Environment
Precautions
Uninstallation
Launching IMxVCD
Exiting IMxVCD
Start Screen/Elements
Navigation Bar
Layout environments/Elements
Style Settings Panel
Movie Button Settings Panel
Title Settings Panel
Preview and Output/Elements
Preview Panel
Video CD Output (Windows)
Video CD Image Output (Macintosh)
Preferences
User Interface Notes
Supported File Formats
Glossary
Compatible Recording Drives

Glossary

DVD Video
High-quality digital recordings of video and audio on read-only media Images are generally encoded in MPEG-2 format for recording. For playback on commercial DVD players.

MPEG
MPEG, an abbreviation for Moving Picture Experts Group, is an international data compression standard for digital video and hi-fi audio. MPEG-1 is used for Video CD playback that rivals VHS tapes in quality. MPEG files are smaller than DV (digital video) files, an advantage which enables longer recordings and has made them a standard format for Internet use. MPEG-2, used for DVD and digital satellite broadcasts, offers excellent image and sound quality.

Video CD
A format combining audio and visual data for recording on a single CD-ROM format.
The video data is compressed for recording using MPEG-1 encoding for a resolution of 352×240 pixels. The frame rate is 24 or 29.97 frames per second. The audio format is MPEG-1 Layer 2.
Video CDs or Video CD images created using IMxVCD offer the same playback control as DVD Video. They can be played with commercial Video CD players or Video CD-compatible DVD players.

authoring
The process of preparing a video disk. Authoring involves menu creation and specifying the content and navigation settings.

content
The video files used for authoring. Sometimes referred to simply as movies.

thumbnail
A smaller version of image files that is used for templates and other purposes. Thumbnails offer an at-a-glance view to identify the files you are using.

disk image, Video CD image, Video CD image
A disk image is an image produced from various file structures. A Video CD image is an image produced from a file structures conforming to the Video CD Ver2.0 standard.

video disk
A general term for Video CDs and DVD Videos created using IMxVCD. Sometimes simply referred to as a disk.

Video/TV format
Two kinds of video format are NTSC and PAL.
NTSC is the format generally used for television broadcasts in the U.S., Japan, and elsewhere. NTSC images consist of 525 scanning lines, and the replay rate is 30 frames per second. PAL is the format generally used for television broadcasts in Europe, China, and elsewhere. PAL images consist of 625 scanning lines, and the replay rate is 25 frames per second.

NTSC	Japan, United States of America, Canada, South Korea, Taiwan, Chile, Philippines, Peru, and Mexico

PAL	Argentina, United Kingdom, Italy, India, Indonesia, Australia, Austria, Netherlands, Canary Islands, North Korea, Greece, Kenya, Saudi Arabia, Singapore, Switzerland, Sweden, Spain, Thailand, Czechoslovakia, China, Denmark, Turkey, Germany, Nigeria, New Zealand, Norway, Pakistan, Finland, Brazil, Belgium, Poland, Portugal, Hong Kong, Malaysia, South Africa, and the former Yugoslavia region

project

The work you have prepared during authoring is called a project. When you author using IMxVCD, you can save your work at any time as a project file. The next time you open the saved project file, you can continue working on it from the state of authoring at the time of saving.

Movie buttons

Buttons that are used to play video disks. You can create them by adding movies in the Layout environment screen.
In Video CD Output mode, the movie buttons Selection Numbers correspond to the buttons of the remote control of the playback device. During playback of the Video CD, they can be selected with the remote control number keys to control playback .

menu, menu screen

The screen displayed during Video CD playback is called a menu or menu screen. With IMxVCD, you can customize the menu screen using the Layout environment screen. You can prepare multiple menu screens and arrange up to 6 movie buttons on a single menu screen.

Selection Numbers

The numbers indicated for the movie buttons as displayed in Video CD Output mode on the Layout environment screen or Writing environment Screen. These numbers correspond to the selection number on the remote control of the playback device for the Video CD.
For example, pushing [1] on the remote control will play the movie corresponding to selection number [1] on the menu screen currently displayed. Pressing [3] on the remote control will play the movie for selection number [3].

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Tutorial
Step 1: Add Your Movies
Step 2: Customize the Menu
Step 3: Preview the Video CD
Step 4: Output
Reference
Getting Started
Before Use
Important Notices
IMxVCD Functions
User Environment
Precautions
Uninstallation
Launching IMxVCD
Exiting IMxVCD
Start Screen/Elements
Navigation Bar
Layout environments/Elements
Style Settings Panel
Movie Button Settings Panel
Title Settings Panel
Preview and Output/Elements
Preview Panel
Video CD Output (Windows)
Video CD Image Output (Macintosh)
Preferences
User Interface Notes
Supported File Formats
Glossary
Compatible Recording Drives

Compatible Recording Drives

The CD-R and other disk drives listed below have been verified for use with IMxVCD. (As of Wednesday, June 5, 2002.)
We do not guarantee the performance of drives not listed here in creating Video CDs. Furthermore, we do not guarantee all functions of these drives.
We will keep you informed of any additions in the future through updates on the Pixela website.

Manufacturer	Drive Model	Verified Firmware Version
I-O Data	CDRW-RB6424G	1.3
	CDR-TX624 series	1.0p
	CDR-TX624 series	1.0p
	CDRW-RX6424 series	1.3
	CDRW-AB84G	1.1
	CDRW-AB428	2.0D
	CDRWD-AB6424G	1.6
	CDR-AB220PD	2.0k
	CDRW-SX1210B	1.03
	CDRW-SB1210B	1.03
	CDRW-SB8220	1.1
	CDRW-SX8220 series	1.1
	CDRW-YX88	1.0a
	CDRW-YB88	1.0a
	CDRW-i64/USB/1394	1.9
	CDRW-i1210B/USB/1394	-
	CDRW-i1610B/USB/1394	-
	CDRWD-i1210J/USB	1.3
	CRWDP-i8A/US2	1.07
	CDRW-iE24J	1.23
	CRWP-i24B/US2	8.41
	CDRWD-AB1210J	1
	CDRWD-RX1210J	1.2
	CDRW-SX124G	1.28
	CDRW-SB124G	1.28
	CDRW-SX124BG	2.21
	CDRW-SB124BG	2.21
	CDRW-AB124B	3.27
	CDRW-AB1210B	-
	CDRW-AB1610B	-
	CDRW-SX1610B	-
	CDRW-SB1610B	-
	CRWD-AB20J	1.2
	CDRW-SX24B	-
	CDRW-SB24B	-
	CDRW-AB24J	1.3
	CDRW-AB24B	6.32
	CDRW-AB32B	-
	DVDRW-AB4.7P	1.29
	DVDRR-AB4.7	A078
ADTEC	AD-RW446U/PW1	1.05
	AD-RW446U/PW2	1.1B
	AD-RW6416/V	1.0b
	AD-RW820/V	1.05
	AD-RW1610UF/PWG	-
	AD-RW2410B	6.32
iiyama	AVENUE MPX-710	100E
AOpen	CRW1232	1.22
	CRW1232A	1.01
	CRW1232PRO	1.2
	CRW1632	-
	CRW2040	-
	CRW2440	-
ST_Trade_Corporation	DVR-103	1.44
	DCR-111R	1.26
	DVRW-AT4	1.2

NEC	NEC ODX658	1.02
	NR-7500A	1.06
	NR-7700A	1.01
	NR-7800A	1.26
	NR-7900A	1.23
	NR-7800B	1
	NR-8400A	1.21
	NR-8500A	1.5
	CB-2100A	1.03
NEC_VALUESTAR	VT900/1D	1.04
	VT950/1D	1.04
	VT970/1D	1.04
	VT100/1A	1.04
LG	CED-8041B	1.01
	CED-8042B	1.05
Caravelle	RW-4416 series	1.0f
	RW-6424DA/K	1.6
	RW-8424S series	1.0j
CREATIVE	CD-RW121032	LC56
	RW1210E	LC56
CyQ've	CRW-DVD	1.6
SAMSUNG	SW204	BS14
	SW408B	bd19
	SM304B	-
	SM308B	T100
	SM-408B	T200
GENERIC	CRD-RW1	1.1
	CRD-RW2	1.28
	CRD-BP2	2.21
	CRD-BP3	1.03
	CRD-BP4	-
	CRD-BP5	-
	CRD-BP900P	3.27
	CRD-BP1300P	-
	CRD-BP1400P	-
	CRD-BP1500P	6.32
	CRD-BP1600P	-
	CRD-BP1700P	1.01
Sony	CDU928E	1.1n
	CRX50A	1.0e
	CRX55A	1.0a
	CRX75A	2.0a
	CRX75U	2.0a
	CRX76A	2.0a
	CRX76U	2.0a
	CRX10U	2.0b
	CRX100E	1.0j
	CRX120E	1.0j
	CRX140E	1.0p
	CRX160E	1.1a
	CRX175E	1.0g
	CRX500E	1.0a
	CRX700E	2.0a
	CRX800E	1.0a
	CRX1600S	1.0a
Century	CEN658KIT	1.02
	CEN-CDR820A-EXT/AT	1.05
WPI	CDRW-8432i	E10k
TDK	ICD4012A	1t01
	PCD8824U2	N1B1

Teac	MC-R5220EK	2.0k
	CD-R6240S series	1.0p
	CD-R624SK series	1.0p
	CD-R56S	1.0p
	CD-R58S	1.0f
	CD-W4432EKB	1.1B
	CD-W24E	1.0A
	CD-W28E	-
	CD-RW280PU	-
	CD-W216E	1.0A
	CD-W54E	1.1B
	CD-W58E	1.0A
	CD-W512SB	1.0A
	CD-W512E	1.0E
	CD-RW512EKB	2.0B
	CD-W512EB	2.0B
	CD-W516EB	1.0B
	CD-W524EB	-
	CD-W540E	-
	CD-RW540EKB	-
	DW-28E	1.0A
Toshiba	SD-R1002	1034
	SD-R1102	1012
	SD-R1202	1023
	SD-R2002	1Q24
	SD-R2102	1008
	SD-R2212	1011
	SR-C8002	1008
	SR-C8102	-
TORiSAN	CDW-U4424	200A
NOVAC	NV-CR330P	1
	NV-DW340	1
Pioneer	DVR-103	1.44
	DVR-A03-J	1.44
	DVR-A04-J	1.2
	DCR-111	1.26
Hagiwara	HBC-CRW8432A	1.04
	HBC-CRW4XU	1.04
	HBC-CRW8XUG	2.0B
	HBC-CRW448UG	1.1B
	HBC-RWD4424A	1034
Panasonic	CW-7503	1.05
	CW-7582	1.05
	CW-7585	1.04
	CW-7586B	1.04
	CW-8121	-
	CW-8571	-
	LK-RW7585T series	1.04
	LK-RW7585UZ	1.08
	LK-RC8571TZ	1J39
	LK-RC8571UZ	1J44
	LK-RV8185AZ	BH43
	KXL-RW20AN	1.23
	KXL-RW21AN	1.02
	KXL-RW30AN	1.02
	KXL-CB10AN	K001
	KXL-RW10AN-S	-
	UJDA310	1.1
	UJDA320	1.23
	UJDA330	1S20
	UJDA330A	1Z32
	UJDA340	-
	UJDA710	1.1
	UJDA720	-
	UJDD410	1
	LF-D321JD	A078
	LF-D340JD	A078

PHILIPS	CDD4201	Z023
	CDD4401	1.21
	CCD4801	1.1
	428CDRW	2.0D
	4424CDRW	-
	8432CDRW	1.2A
	241240CDRW	1.0c
	321240CDRW	-
	PH162180AEP	-
	PH1621809EP	1.0c
Pixela	PIX-DVRR/FW1	A078
	PIX-DVRR/AT1	A078
Hitachi LG Data Storage	GCE-8160B	1.2
	GCC-4120B	1.04
	GCC-4080N	-
Plextor	PX-W4220T series	1.04
	PX-W124TS	1.07
	PX-W412C	1.04
	PX-W8220T	1.05
	PX-W8432T	1.09
	PX-W1210TA/BS	2.0B
	PX-W1210TS	1.03
	PX-W1610TA/BS	1
	PX-S88T	-
	PX-S88TU	1.02
	PX-W2410TA/BS	1.02
	PX-W2410TU/BS	-
	PX-W4012TA/BS	1
	PX-320A/BS	-
BENQ	CRW3210P	B.KW
	CRW4012P	V.MW
Mitsubishi	MK4416Y	1.0f
	MK426Y	1.0g
	MKRW124S	1.28
	MKRWT4BP	2.21
Mitsumi	CR-4804TE	2.6c
	CR-48x5TE	1.8A
	CR-4808TE	1.1A
	CR-48x9TE	1.0c
	CR-48xATE	-
MIRAI_TECHNOLOGY	SDR-1500-M	6.32
Melco	CDS-28N	1.1n
	CDRW-S4220 series	1.04
	CDRW-S4224W series	2.03
	CDRW-S8220 series	1.05
	CDRW-I8432FB	1.07
	CDRW-IL8432	1.09
	CDRW-S4432	2.23
	CDRW-I4224FB	1.0j
	CDRW-I4432FB	1.1
	CDRW-446USB	1.3B
	CDRW-S8432 series	2.3
	CDRW-S124	1.07
	CDRW-S124FB	1.07
	CDRW-B88USB	2.0B
	CRWU-PB88	-
	CRWI-B1210FB	1.07
	CRWS-SB1210	3
	CRWU-B1210	1.01
	CRWiF-B1210	1.07
	CRWU2-B1210	1.22
	CRWS-SB1610	3.1
	CRWI-B1610FB	-
	CRWU2-B1610	1
	CRWiU-B1610H	1.02
	CRWSU-B1610H	-
	CDRW-1210USB	2.0G
	CRWI-J1210FB	1.22
	CDRW-J1210USB	1.2
	CDRW-J1610SU	OS0B
	CDRW-J1610IU	OS0B
	CDRW-J1610U2	OS0B
	CDRW-J2410IU	1.0g
	CDRW-J2410U2	1.0g

	DVRAM-FB	A078
	CRW-16FB	1.2
	CRW-24FB	1.0g
	CRW-24IU	1.0g
	CRW-24SU	1.0g
	CRW-24U2	1.0g
	CRW-32FB	-
	CRW-32IU	-
	CRW-32U2	-
	CRW-S32FB	-
	CRW-40FB	1.01
	CRWD-20U2	-
	CRWD-16FB	3p34
Yamaha	CDR200 series	1.0n
	CDR400 series	1.0g
	CDR401	1.0h
	CRW2216E	1.0h
	CRW4260	1.0q
	CRW4416S series	1.0f
	CRW4416E	1.0b
	CRW6416S series	1.0b
	CRW8424S series	1.0j
	CRW8424E	1.0e
	CRW8824E	1.0a
	CRW8824S series	1.0a
	CRW2100E-VK	1.0H
	CRW2100IX-VK	1.0N
	CRW2200E	1.0B
	CRW2200UX-VK	1.0E
	CRW3200E-VK	1
	CRW3200UX-VK	1
	CRW3200SX	1
LITE-ON	LTR-12101B	LS22
	LTR-16102B	OS0B
RADIUS	FWS05020 Slim Line CDRW 4x4x24	1.15
Ricoh	MP7040A series	1.3
	MP7060A series	1.8
	MP7060S series	1.3
	MP7063A	1.9
	MP7080A	1.1
	MP7083A	-
	MP7120A	1.1
	MP7125A	1.1
	MP7163A	B006
	MP7200A	-
	MP7320A	-
	MP9060A	1.6
	MP9120A	1.2
	MP9200A	1.2
	MP5120A	1.29
	MP5125A	-
Logitec	LCW-RW8416 series	1.0f
	LCW-RW9820 series	1.05
	LCW-RW3624/P/PC	1.3
	LCW-RW8616 series	1.0b
	LCW-RW8824 series	1.0j
	LCW-5820 series	1.05
	LCW-RD648 series	2.0k
	LCW-RW3624AK	1.3
	LCW-S4424AK	1.0j
	LCW-R6424DV series	1.6
	LCW-Z4408/U	2642
	LCW-R6406U	1.9
	LCW-S4406U	1.0j
	LCW-Y8824 series	1.0a
	LCW-R8432F	1.1
	LCW-R6432	1.9
	LCW-P1210BF	2.0B
	LCW-R1210S	1.1
	LCW-R1210AK	1.1
	LCW-R1210F	1.1
	LCW-R1210DV	1.2
	LCW-R1210DVAK	1.2
	LCW-T1210BSU	2.0E

	LCW-T1210BU	2.0E
	LCW-T1210BAK	2.0B
	LCW-E1210BU	1.01
	LCW-E1210BSU	1.01
	LCW-E1210BAK	1.01
	LCW-E24U2	1.23
	LCW-E24SU2	1.23
	LCW-E24FU2	1.23
	LCW-Y1610AK	1.0F
	LCW-Y1610F	1.0G
	LCW-PN8424SU	1
	LCW-T1610BSU	1.0B
	LCW-T1610BAK	-
	LCW-T1610BFU	1.0A
	LCW-PT8824BU	-
	LCW-R2010BAK	-
	LCW-Y2010BSU	1.0B
	LCW-Y2010BFU	1.0c
	LCW-G2410BAK	6.32
	LCW-G2410BFU	6.32
	LCW-G2410BSU	6.32
	LCW-R2010DVAK	1
	LCW-R2010DVSU	1
	LCW-R2010DVFU	1.1
	LCW-WINU	1.9
	LCW-PTU2	-
	LCW-PEDVU2	1.07
	LCW-S24U2	1.0g
	LCW-S24SU2	1.0g
	LCW-S24FU2	1.0g
	LCW-S24AK	1.0g
	LCW-R20U2	1.3
	LCW-R20FU2	1.3
	LCW-R32AK	-
	LCW-R32U2	-
	LCW-R32SU2	-
	LCW-R32FU2	-
	LCW-T40AK	-
	LCW-T40U2	-
	LCW-T40FU2	-
	LDR-214AK	1.44
	LDR-214F	1.44
	LDR-216AK	1.2
	LDR-216FU2	1.2
	LDR-N106AK	1.29
	LDR-N106FU2	1.29
	LDR-258AK	1.06
	LDR-258FU2	1.06

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