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The Right Software For The Job™

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About iVCD™

iVCD[™] allows you to easily make DVDs, VCDs (Video CDs), SVCDs (Super Video CDs), XVCDs, XSVCDs and more on Mac OS X. It creates DVDs from iMovie, Quicktime, AVI, WMV or MPEG movie files. It supports both NTSC and PAL broadcast formats as well as playlists and menus.

With iVCDTM, each project that you make is stored in a separate folder, so you can easily make additional copies of your home movies or corporate training videos. As added conveniences, it also erases rewriteable optical media (CD-RW, DVD-RW, etc) and includes features for creating looping Kiosk discs, for lightening dark video and for rescuing video that is clipped when displayed on a TV screen.

Features include:

- Burns DVD video on both DVD and CD media
- Burns Video CD (VCD), Super Video CD (SVCD), KVCD, XVCD and XSVCD on CD
- Converts from a variety of source files (AVI, DivX, XviD, MPG, WMV, iMovie & iMovie HD, Quicktime and MOV)
- Encodes to MPEG-1 (VCD), MPEG-2 (SVCD or DVD), generic MPEG-1 or generic MPEG-2
- Convenience Features
 - Easy-to-use "drag and drop" interface and one-step "Convert + Image + Burn" operation
 - Maintains a project folder so multiple copies can easily be made
 - Erase rewriteable optical media (CD-RWs, DVD-RWs, etc)
- Video Rescue features
 - Lighten video slider to rescue video that's too dark
 - TV Safe Border effect for rescuing video that appears cropped on a TV screen
- Flexible operation
 - Use the convenient one-step "Convert + Image + Burn" operation, or use the standalone MPEG converter/encoder
 - Use the CPU Usage Control to manage the amount of CPU used by iVCD during the Convert process
 - Use the CDR Disk At Once (cdrdao) option to use with CD drives not supported by Apple's Disc Recording APIs
- Advanced Options
 - Burns looping DVDs for use in Kiosks and retail outlets
 - Burns VCDs with play lists and menus (playback control), hybrid movie/music VCDs, VCDs that will Autorun on Windows, looping VCDs for use in Kiosks and retail outlets
 - selectable MPEG encoding quality
 - Pixel Aspect Ratio selection (1:1 for computer display, 4:3 for standard television, 16:9 for widescreen television)
 - interlace option
 - Supports NTSC and PAL broadcast format output

System Requirements

To run iVCD™ you need

- Macintosh G3 or later
- Mac OS X version 10.4 or later

To convert AVI (Xvid, DivX, other MPEG4 derived formats) you need the following:

• For Mac OS X 10.4 or later - The Perian Quicktime Component. Pre-compiled, easy to install, version of this component available here:

http://www.perian.org/

Please show your appreciation by visiting their donate page.

To convert other proprietary AVI formats you need the Quicktime Component developed by the producers of the proprietary format. If the developers do not provide a component for Quicktime it may not be possible to convert that format and you will need your source video reencoded in a standard format.

To convert WMV (Windows Media Video) you need the following:

• Flip4Mac WMV Studio

To preview MPEG2 or to convert from MPEG2, you need the following:

• the Quicktime MPEG2 Playback Component available from Apple

About Making Videos

Creating a DVD or VCD is a 2 step process:

- 1. Create the content the movies to be shown. These are called the **source movie files**.
- 2. Author the DVD or VCD. Authoring a DVD or VCD is the term used when you convert the source files to MPEG, create an **image** of the converted files and then **burn** the MPEG to a CD or DVD media. iVCD is the utility that will do all these steps for you with the push of one button.

Source Movie files

iVCD[™] works with a variety of iMovies, Quicktime movies, AVI movies, WMV and MPEG source movies. However, to make a DVD or VCD from a source file, you must be able to play the source movie. If you are unsure if the movie can be played, drag it in to the iVCD movie files list and play it using the iVCD movie window. (For further information, refer to the "How to play a movie" section of this document.)

For more information about video formats and video on your Mac, refer to our site:

http://www.mireth.com

Using AVI, DivX, XviD as your source movies

To work with AVI, DivX or XviD, you need to install the AVI Component. Refer to the System Requirements for a direct link to the AVI Components download and developer pages.

Using WMV as your source movies

To work with WMV you need to install the Flip4Mac Studio Component. Refer to the System Requirements for a direct link to the Component purchase page.

Using MPEG-2s as your source movies

If you have MPEG-2 source files you want to make into VCDs or DVDs that require conversion to the correct MPEG format, you need to buy the Apple MPEG-2 Playback Component. Refer to the System Requirements for a direct link to the Component purchase page. If your MPEG-2 files are already correctly formatted for SuperVCD or DVD, you don't need the Apple Playback component. Just select the "Don't Convert MPG" setting.

Time and Money Saving tips when making DVDs and VCDs

As with all video projects, authoring DVDs and VCDs takes some trial and error to get right. Many of the common pitfalls can be avoided by using the following tips:

- 1. *A disc that can't be played by your intended audience is a complete waste of your time* Find out what kind of equipment your audience will be playing the disc on. For instance, if it's to be played on a TV, make sure you know which broadcast standard that country uses - NTSC, SECAM or PAL - and encode with that video type.
- 2. *Test the disc you produce on the type of equipment your audience will be watching it on* What looks great on your computer monitor, might be clipped on a TV screen. What looks in focus on a small screen might be too blurry to watch on a large one. Wherever possible, test the disc under real life conditions before your audience does.

3. Avoid Overburning - Keep your total video length under the maximum

Each format standard has a maximum allowable length that will fit on the media. To avoid running over the end of the media (overburning), keep your total project movies length under these limits. (Because DVD and SVCD use variable bit rates, you may be able to fit more video on by reducing the bit rate, but this will also reduce the output quality.)

DVD Single Layer - 120 minutes DVD Dual Layer - 240 minutes CD - 74 minutes in VCD Format CD - 40 minutes in SVCD Format.

4. *Make several short movies instead of one long one* Creating several short movie files (10 minutes or less) makes editing much easier.

For instance, if you divide your 40 minute presentation in to four, 10 minute sections and you find a mistake in one of them, you only need to edit and re-convert that one. It takes a long time to convert a movie to MPEG, about fives times as long as the length of the file. So while it may take 50 minutes to re-convert a 10 minute movie, it may take 3 hours to convert a 40 minute movie.

- 5. *Save money on discs by using a DVD-RW or CD-RW until your project is complete* It would be great if your video came out perfectly the first time you burned it. Unfortunately, this is seldom the case. Making the best quality video is a trial and error process. It could take several tries, and several discs to get it right, which could get expensive. Use a DVD-RW or CD-RW when making your video so that you don't waste discs while experimenting. (Erase and re-use the disc until the project is correct.)
- 6. Once you've perfected a project, make a backup of your project folder Keep this "gold master" project folder somewhere safe. If you lose your disc, you can always make another. If you make a series of disastrous changes in an attempt to improve on perfection, you'll always have your "gold master" backup to fall back on.

7. Don't start at the last minute

It would be great if your input movies were all perfect, converting to MPEG took almost no time, and your video looked great when you tested your very first attempt. Unfortunately, this is seldom the case. Making the best quality video is a trial and error process. It usually takes several tries and several hours to produce a video you are proud of. Give yourself enough time to do a good job.

Installing/Uninstalling iVCD™

How to Install iVCD™

- 1. Drag the iVCDTM folder to wherever you keep application software.
- 2. Double click the iVCD[™] icon. The Registration dialog will appear when you launch the program, displaying four buttons:

ality will be

Figure 1: Registration Dialog

Quit – to quit the program, click the "Quit" button

Run Demo – (Downloaded version only). For further information, refer to the "Appendix A - Demo" section of this document.

Buy Now – (Downloaded version only) If you wish to purchase this program now online, click the "Buy Now" button and follow the instructions.

Register – To register the program now, follow the instructions below.

3. Register iVCD[™].

The Registration dialog will appear when you launch the program.

• Enter the License Type, Purchaser's Email Address and Registration Key/Serial Number supplied when you bought the product.

If you purchased online, the easiest way to do this is to copy (Apple C) and paste (Apple V) the information from the email we sent you.

If you purchased a CD, the Registration Key/Serial Number will also be printed on the CD jacket.

• Click the "Register" Button

If you have entered the Registration information correctly, the "Registered" message will be displayed.

If there is a problem with the registration information, the "Invalid Registration Information" dialog will appear. To correct the problem, refer to the Help section on our website.

4. Configure the iVCD[™] preferences. For further information, refer to the "Configuring the Preferences" section of this document.

How to uninstall iVCD™

- 1. Drag the preferences files to the trash "\$HOME/Library/Preferences/com.mireth.ivcd.plist"
- 2. Move the iVCDTM Folder from wherever you keep application software to the Trash.
- 3. If you've created an alias to iVCD[™], move it to the Trash. If you are running iVCD[™] from the Dock, drag it out of the Dock.
- 4. If you have configured iVCDTM to run automatically, open the System Preferences, click Login, Single click to select iVCDTM icon and click the Remove button.
- 5. Empty the Trash.

How to upgrade iVCD™

- 1. If you've created an alias to the previous version of iVCD[™], move the alias to the Trash.
- 2. Move the iVCD[™] folder for the previous version from wherever you keep application software to the Trash.
- 3. Empty the Trash.
- 4. To install the upgrade, follow the instructions in the "How to Install iVCD[™]" section of this document.

The iVCD[™] Interface

The iVCD™ Project Window

No Menu Enable Me	enu	
To make a VCD or DVO: 1. Drag your Movie or Quicktime movie into 2. Click the Convert + Image + Burn button	athe Movie files list	
To create a VCD or DVD with a menu click the "	Enable Menu" tab.	
		▶ ⊖ 4
and the second se	Movies Music	
		(C++
		Add
		Add
Current Project: /Users/donna/Documents/U	Donna's File Cabinet/mtc current/Testing Data	Add Opeiete
Current Project: /Users/donna/Documents/l		Add Opeiete
	Settings Expert Settings	Add Opeiete
Video CD North America (N	Settings Expert Settings	Add Wireth-vcd/
	Settings Expert Settings	/mireth-ved/ Cood Remer Best
Video CD North America (Ni Super Video CD Europe (PAL)	Settings Expert Settings TSC) Klosk TV Safe Black Border	/mireth-ved/
Video CD North America (Ni Super Video CD Europe (PAL)	Settings Expert Settings TSC) Klosk TV Safe Black Border Don't convert MFG	/mireth-wed/
Video CD North America (M Super Video CD Europe (PAL) OVD	Settings Expert Settings TSC) Klosk TV Safe Black Border	/mireth-wed/

Figure 2: iVCD Main Screen

The iVCDTM project window consists of seven parts,

- 1. The Menu tabs
- 2. The Capacity Indicator bar
- 3. The Movie window
- 4. The Movie/Music file list
- 5. The Project Settings tabs
- 6. Title and Author
- 7. The Buttons

1 - The Menu Tabs

There are two menu tabs, the "No Menu" tab to make a movie without a menu. and the "Enable Menu" tab to make a movie with a menu. The default is "No Menu".

To make a movie with a menu, use the "Enable Menu" tab. For further information, refer to the "Advanced Features" section of this document.

2 - The Capacity Indicator Bar

The green/amber/red capacity indicator is provided to avoid overburning the disc. The default type of optical media (disc) is selected based on the type of product (VCD, SVCD, or DVD) you have selected. You can change the default using the popup button to see how well your project would fit on a different type of optical media.

Important note: DVD video can be burned onto CD media but a VCD **cannot** be burned onto DVD media. This is indicated by the indicator going off the top of the scale when you select DVD media in combination with a VCD project type. If you are going to make a VCD you must use CD media or the burn will fail.

As you add movies to the Movie List, pay attention to the Green/Amber/Red indicator bar, which indicates how full the optical media is. Try to keep the indicator **below the red** area to prevent overburning the optical media. Once you're more familiar with iVCDTM, you'll have a better idea of how many minutes you can put on the optical media, given the type of video you are burning and the type of optical media that you are using.

• If your video(s) is too long to fit on a single CD or DVD you need to manually split it into 2 or more Quicktime reference movies. Any application (like Quicktime Pro) that can save movies works for splitting. Just select part of the Movie (shift-click in the movie controler), Edit->Copy, File->New, Edit->Paste and File->Save. And use each reference movie in a different iVCD Project.

3 - The Movie Window

iVCD[™] uses a standard Macintosh movie window to allow you to play a movie file as well as preview encoded MPEG files. (MPEG-2 preview, requires the Apple MPEG-2 Playback Component. For further information, refer to the "System Requirements" section of this document.)

How to play a movie

To preview a movie that requires a component, install the component first. For further information, see the "Systems Requirement" section of this document.

To play a movie:

- 1. Single-click the movie to select it
- 2. Press the play ">" button.
- 3. To control, use the following controls:

Pause/Play Toggle

Click the Play Button (>) to play and the Pause Button (II) to pause

Volume

Click the Volume Button (to the left of the Pause/Play Toggle) and use the slider to adjust the volume. If the movie doesn't have a soundtrack, this button will not be displayed.

Some MOV files may have no audio. This is because you used an audio format that Quicktime will not export (like a protected iTunes song). To get audio, export the MOV file to a DV format prior to using it with iVCD.

Scroll Fast Forward/Fast Reverse

Click the Scroll Slider to the right to fast forward to another position and to the left to fast reverse to a previous position in the movie

Frame Forward Click the Frame Forward Button (|>) to advance one frame in the movie

Frame Backwards

Click the Frame Backward Button (<1) to advance one frame in the movie

4 - The Movie/Music File List

The file list is used to display, add and delete the Movies, Playlists and Music being used in your project.

Using the Movies List

To add a movie,

- Click the "Movies" tab
- Using the Finder, find a movie and single-click it to select it
- Drag it to the Movies List

If you drag an iMovie HD .iMovieProject file into the iVCD Movie List, iVCD will find the Shared Movies/iDVD folder and add that to the Movies List and create a playlist called "iDVD" in the Movies List that contains the MOV file from that .iMovieProject. You may wish to drag the MOV file out of the iDVD playlist and delete the iDVD playlist from the iVCD Movies List.

To add a playlist

- Click the "Movies" tab
- Click the "Add Playlist" button
- In the Movie List a new playlist will appear with a folder icon. Beside the icon, type in a name for the playlist

To change the order of a movie/playlist in the Movie List

- Click the "Movies" tab
- Single-click the movie / playlist to select it
- Drag it to a different spot in the Movie List

To delete a movie/playlist from the Movie List

- Click the "Movies" tab
- Single-click the movie/playlist to select it
- Click the "Delete" button

Using the Music List

This feature is for VCDs only

Because this feature requires the use of CDRDAO for burning, it does not work with non-MMC or with USB CD-RW Drives. If you have configured Apple Disc Recording in the Preferences, iVCD will automatically switch to CDR Disk At Once (cdrdao) for VCDs that contain music.

This feature only supports .wav files as input. To convert a music file to .wav, use Music Man.

To add music (.WAV only),

- Click the "Music" tab
- Using the Finder, find a .wav music file and single-click it to select it
- Drag it to the Music List

• Set the pre-gap in seconds

To delete a file from the Music List

- Click the "Music" tab
- Single-click the music file to select it
- Click the "Delete" button

5 - The Project Settings Tabs

Once you have opened or created a project, you can configure the settings in the project using the settings in the iVCD[™] project window.

There are two Settings tabs,

- the "Settings" tab and
- the "Expert Settings" Tab.

Your changes will be saved in your project, but will not affect the default settings. To change the default settings, refer to the "Configuring the Preferences" section of this document.

Settings Tab

• Media Type

Video CD Select Video CD to produce MPEG1 VCDs.

or

Super Video CD Select Super Video CD to produce MPEG2 SVCDs.

or

DVD Select DVD to produce MPEG2 DVDs.

Broadcast Standard Type

North America (NTSC)

Select NTSC if you plan to watch your discs on a television that uses the North American standard. This includes the USA, Canada and many countries outside of Europe.

or

Europe (PAL)

Select PAL if you plan to watch your discs on a television that uses the European standard. This includes the England, France (technically SECAM but PAL works), Germany and other European countries.

Important Note: If you are not sure which settings to use, we suggest you experiment with a CD-RW or DVD-RW until you find a setting that works with your equipment.

Kiosk

VCDs and DVDs intended for use in information Kiosks need to play continuously.

To enable continuous playback, tick this box. The resulting disc will play in a continuous loop. The default value is "Off".

If you enable menus, the Kiosk checkbox will have no effect, since the playback control will be determined by your menu. To re-enable the Kiosk setting, click the "No Menu" tab.

• TV Safe Black Border

Unlike computer monitors, televisions do not display the complete picture. Television defines two areas, called the Action Safe Area, which occupies the middle 95% of the screen, and the Title Safe Area, which occupies the middle 90% of the screen. Action on the edges of the screen may be cropped if they fall outside the Action Safe Area. Similarly for Titles.

If you did not take these safe areas into account when you made your video, you may see come cropped of action or text on some TV screens. Rather than going back and redoing your movie, tick the iVCD TV Safe Black Border effect and iVCD will shrink your video into the Action Safe Area. For most video this will result in acceptable display on a television. The default value is "Off".

• MPEG Encoding Quality

Slide this lever to the left to reduce the time it takes to encode an MPEG. The better the quality of the MPEG encoding, the longer it takes to encode. The default setting is "Good".

• Video Lightness Slider

Sometimes encoded video appears darker than your original movie. If the encoded movie is too dark, you can adjust the lightness and re-encode the video so that the resulting video appears brighter. The default value is "Normal" – the lightness is not adjusted.

Note: Please note that adjusting the lightness will result in slower encoding as each frame needs to be processed when the movie is being encoded.

Expert Settings Tab

The Expert Settings are provided for users that wish to take advantage of iVCD's XVCD, XSVCD, DVDs with non-standard bit rates and generic MPEG support features. If you are using iVCD to create standard VCDs, SVCDs or DVDs, don't use these settings.

For more information about the Expert Settings Tab, refer to the "Advanced Features" section of this document.

6 - Title and Author

• Disc Title

The name that appears on the desktop when optical media is inserted into a computer. The default is VIDEO_CD.

Important Note: Don't put a space in the Disc Title for a VCD. Use the underscore "_" character instead. Spaces are permitted for DVD.

• Author Name

Your name or the name of your company.

7 - The Buttons

The following buttons are available along the bottom of the screen.

• Eject Button

To eject a disc,

- Click the "Eject" button, or
- Select "Eject" from the "CD" Menu (CD>Eject), or
- Use the keyboard equivalent (Apple + Shift + E)

• Convert to MPEG Button

Clicking the "Convert" button converts the movie file to MPEG.

This takes a long time - at least four times as long as the movie length and even longer on slower machines.

You can convert *to* VCD (MPEG-1), SVCD (MPEG-2), DVD (MPEG-2) or Generic MPEG. To Select what to convert TO, use the Project Settings. For further information, refer to the "The Project Settings" section of this document.

You can convert *from* iMovie (.MOV), Quicktime (.MOV), .MOV, MPEG, AVI, DivX, XviD. Conversion from MPEG-2 or WMV, requires additional components. For further information, refer to the "System Requirements" section of this document.

• When the "Convert" button is clicked, the Convert Sheet will be displayed. You may manage the amount of CPU used by iVCD during the Convert process by sliding the slider on the Convert sheet. This is useful if you want to work on something else while iVCD converts video in the background. Reducing the amount of CPU used by iVCD will result in longer conversion times.

• Create Image Button

Clicking the "Create" button creates the disk image. If you haven't completed the "Convert to MPEG" step, the program will prompt you before continuing.

• Erase Button

To erase a CD-RW or DVD-RW,

- Click the "Erase" button and follow the instructions, or
- Select "Erase" from the "CD"Menu (CD>Erase) and follow the instructions, or
- Use the keyboard equivalent (Apple + E) and follow the instructions

• Burn Button

Clicking the "Burn" button burns the optical media. If you haven't inserted the disc yet, the program will prompt you. If you haven't completed the "Convert to MPEG" and "Image" steps, the program will prompt you before continuing.

• Convert + Image + Burn Button

Clicking this button will convert to MPEG, create the disk image and burn the disc all in one step. If you have already completed some of the steps, iVCD will skip them and only perform the remaining steps that are required.

The iVCD™ Menu

The iVCD[™] menu contains the preferences.

Configuring the Preferences

The Preferences are used to set the default setting used when you create a new project. You will still be able to change these settings in a project using the settings in the iVCDTM project window. To configure the preferences, do the following:

1. From the "iVCD" menu, select "Preferences".

Settings Tab

Click the "Settings" tab. Configure the default settings. For an explanation of each of these settings, refer to the "The Project Settings" section of this document.

Burn Tab

Click the "Burn" tab. Configure the default Burn settings.

Apple Disc Recording API – This is the preferred and most compatible method for burning VCDs on Mac OS X 10.3 and and DVDs on Mac OS X 10.4. If you are successfully burning discs, use this option.

The default value is "On".

CDR Disk At Once (cdrdao) – This option is available for users who are having problems burning VCDs using Apple Disc Recording APIs on Mac OS X 10.3. If you are experiencing burn failures and are running Mac OS X 10.3 then use this option and try again. The default value is "Off".

VCD Only - This preference is only required if you are running Mac OS X 10.3 or later and are having burn failures when burning VCDs. On Mac OS X 10.2, CDR Disk At Once is always used. Changing this preference will have no effect. This setting has no effect on DVD burning, which must use Apple's Disk Recording APIs

- 2. Once you have changed the default settings, click the "Save" button to save the settings.
 - To revert to the last saved default settings, click the "Revert" button.
 - To revert to the factory set iVCD default settings, click the "Default Settings" button.

How to Use iVCD™

Once you have finalized your movie content and created your input files, you are ready to start your project. Storing your movie and it's settings in a project folder makes it easy to save your information so you don't have to finish your project in one sitting and it also makes it easy to create more copies of a DVD or VCD once you have perfected your project.

How to make a project folder

- 1. If you haven't already done so, launch iVCD[™]
- 2. From the Project Folder Dialog, select the disk type DVD, VCD or SVCD and select "Save Project".
- 3. Name the new project folder. (for example My DVD).
- 4. The project will be configured using the default settings. If required, edit the settings for this project. For more information on the configuring the settings, refer to the "The Project Settings" section of this document. Your changes will be saved in your project, but will not affect the default settings.

How to Make a DVD

This process is a one step process that will convert the source files and burn the DVD in just one step. It will make a DVD from AVI, DivX, XviD, WMV, MPEG, MOV, iMovie or Quicktime movie source files. (For AVI, DivX, XviD, MPEG-2, WMV, refer to the "System Requirements" section of this document.)

- 1. Make sure you have at least 5GB of free disk space since you'll need room to create your DVD work files. If you run out of disk space during the process of making the DVD, you may be able to re-start from the last successful step in the process.
- 2. Launch iVCD™
- 3. Create a new project folder (For more information, refer to the "How to make a project folder" section of this document.)
- 4. The project will be configured using the default settings. If not already set, change the "**Media Type**" to "**DVD**". For more information on the configuring the settings, refer to the "The Project Settings" section of this document.
- 5. Drag your movie files into the movie list. As you add movies to the Movie List, pay attention to the Green/Amber/Red Capacity Indicator bar at the top of the iVCD[™] screen. For more information, refer to the "The Capacity indicator bar" section of this document.
- 6. Click the one-step "Convert + Image + Burn" button.

Converting to MPEG takes a long time, at least four times as long as the movie length. If you're using an old, slow computer, try running this overnight.

- 7. Insert a blank DVD-R, DVD+R or DVD-RW (if you have less than 15 minutes of DVD Video and you only plan to playback the video on a computer you may also use CD-R or CD-RW).
- 8. Once the "burn" process has completed successfully, test the DVD on the type of equipment your audience will be using, especially before making multiple copies.

How to Make a VCD

This process is a one step process that will convert the source files and burn the VCD in just one step. It will make a VCD from AVI, DivX, XviD, WMV, MPEG, MOV, iMovie or Quicktime movie source files. (For AVI, DivX, XviD, MPEG-2, WMV, refer to the "System Requirements" section of this document.)

Make sure you have at least 1GB of free disk space since you'll need room to create your VCD work files. If you run out of disk space during the process of making the VCD, you may be able to re-start from the last successful step in the process.

- 1. Launch iVCD[™]
- 2. Create a new project folder (For more information, refer to the "How to make a project folder" section of this document.)
- 3. The project will be configured using the default settings. If not already set, change the "**Media Type**" to "**Video CD**". For more information on the configuring the settings, refer to the "The Project Settings" section of this document.
- 4. Drag your movie files into the movie list. As you add movies to the Movie List, pay attention to the Green/Amber/Red indicator bar at the top of the iVCD[™] screen. For more information, refer to the "Capacity indicator bar" section of this document.
- 5. Click the one-step "Convert + Image + Burn" button.

Converting to MPEG takes a long time, at least four times as long as the movie length. If you're using an old, slow computer, try running this overnight.

- 6. Insert a blank CDR or CD-RW.
- 7. Once the "burn" process has completed successfully, test the VCD on the type of equipment your audience will be using, especially before making multiple copies.

How to Make an SVCD

This process is a one step process that will convert the source files and burn the SVCD in just one step. It will make an SVCD from AVI, DivX, XviD, WMV, MPEG, MOV, iMovie or Quicktime movie source files. (For AVI, DivX, XviD, MPEG-2, WMV, refer to the "System Requirements" section of this document.)

Follow the instructions in the "How to Make a VCD" section of this document, changing the "**Media Type**" tick box to "**Super Video CD**". (For further information on this, refer to the "The Project Settings Tabs" section of this document.)

How to Make a KVCD

This process will convert the source files and burn the XVCD in just one step. It will make an KVCD from AVI, DivX, XviD, WMV, MPEG, MOV, iMovie or Quicktime movie source files. (For AVI, DivX, XviD, MPEG-2, WMV, refer to the "System Requirements" section of this document.)

 Follow the instructions in the "How to Make a VCD" section of this document, changing the "Media Type" tick box to "Video CD" and ticking the "Expert Settings KVCD" tick box. (For further information on this, refer to the "Expert Settings Tab" section of this document.)

How to Make an XVCD

This process will convert the source files and burn the XVCD in just one step. It will make an XVCD from AVI, DivX, XviD, WMV, MPEG, MOV, iMovie or Quicktime movie source files. (For AVI, DivX, XviD, MPEG-2, WMV, refer to the "System Requirements" section of this document.)

 Follow the instructions in the "How to Make a VCD" section of this document, changing the "Media Type" tick box to "Video CD" and changing the "Expert Settings MPEG Bit Rate" setting to your specification. (For further information on this, refer to the "Expert Settings Tab" section of this document.)

How to Make an XSVCD

This process is a one step process that will convert the source files and burn the XSVCD in just one step. It will make an XSVCD from AVI, DivX, XviD, WMV, MPEG, MOV, iMovie or Quicktime movie source files. (For AVI, DivX, XviD, MPEG-2, WMV, refer to the "System Requirements" section of this document.)

 Follow the instructions in the "How to Make a VCD" section of this document, changing the "Media Type" tick box to "Super Video CD" and changing the "Expert Settings MPEG Bit Rate" setting to your specification. (For further information on this, refer to the "Expert Settings Tab" section of this document.)

Advanced Features

Expert Settings Tab

The Expert Settings are provided for users that wish to take advantage of iVCD's XVCD, XSVCD, KVCD, DVDs with non-standard bit rates and generic MPEG support features. If you are using iVCD to create standard VCDs, SVCDs or DVDs, don't use these settings.

• Bit Rate

Use this setting to override the standard bit rate (1152 for VCD, 2500 for SVCD, 7500 for DVD). Higher bit rate results in higher quality. Change this setting to use iVCD to encode non-standard bit rate VCDs, SVCDs and DVDs. To revert the MPEG Bit Rate back to the standard, tick Video CD, Super VCD, or DVD tick box as documented above. (Non-standard bit-rate VCDs are called XVCDs; non-standard SVCDs are called XSVCDs. Please note that although all computers should play XVCDs and XSVCDs, they are *not* playable by all component DVD players. Windows may have problems playing back non standard bit rate DVDs, although Mac does not.)

Frame Size

Use this setting to override the standard frame size setting. If you are using MPEGs for something other than VCDs or DVDs, you can adjust the frame size to suit your presentation.

The specified frame size of the output will be adjusted to take the pixel aspect ratio of the output device into account. You need to select the correct pixel aspect ratio for your planned display:

- 1:1 Adjust for computer display
- 4:3 Adjust for standard television
- 16:9 Adjust for widescreen television

To revert the Frame Size back to the standard, un-tick the "Frame Size" tick box.

Frame Rate

This option allows you to create output MPEG video with a specific frame rate. The default is 0 – Default which give you the default frame rate for the selected media and format.

• Generic Profile

iVCD can be used as a batch MPEG encoder. Tick this box to create a generic MPEG instead of a VCD/SVCD.

(You might want to do this to use an MPEG with another application, such as a Powerpoint® presentation. This will allow for a wider range of Bitrate and Frame Size settings. The advantage of creating a generic MPEG is that it is cross-platform and high quality. Generic MPEG output is not for use when making VCDs/SVCDs/DVDs.)

• KVCD

Tick this to create a KVCD. The default setting is "off".

Interlaced

By default, iVCD will de-interlace your video so that the resulting VCD looks good on both computer displays and television displays. For certain VCDs (primarily SuperVCD which is intended to be interlaced) this can result in slightly reduced quality when the video is presented on a Television.

To optimize the VCD for television display, tick the "Interlaced" tick box. The default setting is "off".

Autorun

This option allows you to create a VCD that will autorun (autoplay) when inserted into the CD Drive of a Windows computer.

To disable this, tick "Off".

To have iVCD generate a playlist and autorun file, tick "iVCD" iVCD will generate a playlist and autorun file compatible with - Windows Media Player (6.4 or above; 7 or above recommended). - Windows Me, Windows 2000, Windows XP (or later), or earlier versions of Windows provided Internet Explorer 5 (or above) is installed.

To create your own autorun.inf file, tick "Selected File Name" iVCD will use your custom file. iVCD will still generate the playlist.asx file and you may reference that file in your custom autorun.inf.

The default value is "Off".

How to convert to MPEG

This process will convert the source files to MPEG (MPG) but will not burn the DVD. It will convert from AVI, DivX, XviD, WMV .MOV, Quicktime movie, iMovie, generic MPEG to MPEG. (For AVI, DivX, XviD, WMV, refer to the "System Requirements" section of this document.)

iVCD[™] can be used as an MPEG encoder. It can encode as MPEG-1 (VCD profile), MPEG-1 (generic), MPEG-2 (SVCD profile), MPEG-2 (generic), or MPEG-2 (DVD profile):

- 1. Launch iVCD[™]
- 2. Create a new project folder in your Movies folder. For more information on the settings, refer to the "How to make a project folder" section of this document.
- 3. Drag your movie files into the movie list. Since you are not burning a disc, you can ignore the Capacity Indicator bar at the top of the screen.

To make changes to the movie list, refer to the "Using the Movies List" section of this document.

4. Configure the Project Settings. MPEG -1 (VCD profile): change "Media Type" to "Video CD" MPEG -2 (SVCD profile): change "Media Type" to "Super Video CD" MPEG -2 (DVD profile): change "Media Type" to "DVD" Generic MPEG-1: change "Media Type" to "Video CD" and configure the Expert settings (See the "Expert Settings Tab" section of this document) Generic MPEG-2: change "Media Type" to "Super Video CD" and configure the Expert settings (See the "Expert Settings Tab" section of this document) 5. Click the "Convert to MPEG" button.

Converting to MPEG takes a long time, at least four times as long as the movie length. If you're using an old, slow computer, try running this overnight.

6. When the Convert to MPEG process has completed successfully, the "Convert to MPEG" dialog will disappear.

How to make a Looping DVD

Looping DVDs are used in information Kiosks, at trade shows or anywhere where you want to show a video presentation continuously.

This process is a one step process that will convert the source files and burn the DVD in just one step.

1. Follow the instructions above to make a DVD, and tick the "Kiosk" checkbox. (For further information on this, refer to the "5 - The Project Settings Tabs" section of this document.)

How to make a Looping VCD

Looping VCDs are used in information Kiosks, at trade shows or anywhere where you want to show a video presentation continuously.

This process is a one step process that will convert the source files and burn the VCD in just one step.

1. Follow the instructions above to make a VCD, SVCD, XVCD or SXVCD, and tick the "Kiosk" checkbox. (For further information on this, refer to the "The Project Settings" section of this document.)

How to rescue video that appears cropped on a TV

Unlike computer monitors, televisions do not display the complete picture. Television defines two areas, the Action Safe Area, which occupies the middle 95% of the screen, and the Title Safe Area, which occupies the middle 90% of the screen. Action on the edges of the screen may be cropped if they fall outside the Action Safe Area. Similarly for Titles.

If you did not take these safe areas into account when you made your video, you may see come cropping of action or text on some TV screens. Rather than going back and redoing your movie, use this procedure to try an rescue it.

1. Follow the instructions above to make a DVD, VCD, SVCD and tick the "**TV Safe Black Border**" checkbox on the Settings tab. (For further information on this, refer to the "The Project Settings" section of this document.)

How to lighten dark video

Sometimes encoded video appears darker than your original movie. If the encoded movie is too dark, you can adjust the lightness and re-encode the video so that the resulting video appears brighter.

Note: Please note that adjusting the lightness will result in slower encoding as each frame needs to be processed when the movie is being encoded.

1. Follow the instructions above to make a DVD, VCD, SVCD and slide the "**Video Lightness**" slider on the Settings tab. (For further information on this, refer to the "The Project Settings" section of this document.)

Creating VCDs with Video and Music

The VCD format supports hybrid CDs that contain Video followed by Audio. The Audio portion can be played on a standard audio CD player. This format is typically used to create an Audio CD with one or more video clips. You can make hybrid VCDs, SVCDs, XVCDs and XSVCDs.

Modern DVD players can play the video and the audio on these hybrid format CDs.

This feature requires the use of CDRDAO for burning so it does not work with non-MMC or with USB CDRW Drives.

- 1. Follow Steps 1-6 of the instructions to make a VCD, SVCD, XVCD or SXVCD.
- 2. In the Movie/Music File List window, Click the Music tab. Drag .wav files into the Music List pane and set the pre-gap value in seconds.
- 3. Follow the rest of the instructions to make a VCD, SVCD, XVCD or SXVCD.

Making movies with Menus

Using the Enable Menu tab

To make a movie with a menu, use the "Enable Menu" tab.

	No Menu	Enable Menu
		• • • • • • •
	No Menu	1 2 3 4 5 6 7 8 9 0
DVD:		>> >>

Figure 3: iVCD Menu Tab

The "Menu" button

The menu button is the large one on the left of the "Enable Menu" tab. When no menu movie is selected, it is marked "No Menu". When a menu movie is selected, the name of the menu movie is displayed.

The Looping Menu controls

The three looping menu controls are at the top right of the menu tab, the time-out "clock face" button, the number of times stepper and the wait time stepper.

The mapping buttons

The numeric, |<<, >, and >> | buttons on the tab are used to map a menu item to the buttons on your remote control.

The DVD menu colors

The DVD menu color buttons allow you to select the three colors for the DVD menu. These colors represent the normal, highlighted, and selected menu states.

Configuring a Menu movie

To configure a menu movie, do the following:

- 1. In the movie list, select the movie you want to use as the menu movie.
- 2. Click the large menu button, titled "No Menu". Once you have successfully selected the menu movie, the name of the movie will be displayed on this button.

Configuring an Looping Menu movie

To configure a looping menu movie, do the following:

- 1. Configure the Menu movie (refer to the "Configuring a Menu" section of this document).
- 2. Using the number of times stepper, select the number of times you want the Menu movie to play before the time-out play list is played.
- 3. Using the wait stepper, select the number of seconds to wait after the Menu movie has played before continuing. (Limit of 59 seconds)
- 4. In the movie list, select the time-out play list you want to play if no selection is made.
- 5. Click the time-out button that looks like a clock face. Once you have successfully selected the time-out playlist, the playlist name will be displayed when you pass the cursor over this button.

Disabling a Menu

You can disable the menu for a project without losing its setup simply by pressing the No Menu Tab. To re-enable it just press the Enable Menu Tab. configure a menu movie, do the following:

Mapping a play list to the Remote Control

VCD and SuperVCD

When using the menu, the user selects a menu item to play and then enters it by selecting the corresponding button on the remote control. To configure each menu item, do the following:

- 1. In the movie list, select the play list you want to play when a particular button is pressed (0 through 9, " | <<", ">" or ">> |").
- 2. Click the corresponding button from the Mapping buttons on the Menu tab. Once you have successfully selected a play list, the play list name will be displayed when you pass the cursor over the corresponding button.
- 3. Repeat until all the selections in the Movie menu are mapped to a corresponding play list.

DVD

When using the menu, the user selects a menu item to play by using the remote control navigation keys to choose the displayed menu text and the enter button to select it. With DVDs there are 10 menu lines corresponding the the digits 0-9 and the > button – the remaining menu buttons are not used with DVD menus. To configure each menu item, do the following:

- 1. In the movie list, select the play list you want to be displayed on menu lines 0-9 and use the > button for menu line 10.
- 2. Click the corresponding button from the Mapping buttons on the Menu tab. Once you have successfully selected a play list, the play list name will be displayed when you pass the cursor over the corresponding button.
- 3. Repeat until all the selections in the Movie menu are mapped to a corresponding play list.

Displaying the Remote Control mapping

To display which playlist has been mapped to a mapping button, mouse over it without clicking. A tool tip will display the movie name.

Deleting the mapping of a play list to a mapping button

To delete the mapping of a playlist to a mapping button, press the mapping button. It will no longer be mapped to a play list.

Creating VCDs with a menu

The VCD format supports menus, similar to DVD menus. When you play a VCD with a menu, the menu of items to view is displayed on the screen with a corresponding Remote Control key to press beside each one. The user selects an item to watch, presses the corresponding key on the Remote Control and that item is played.

iVCD[™] allows you to map actions to the following keys on your DVD/VCD Player Remote Control for use with your menu:

• the number buttons 0 through 9

- the skip backwards button " | <<"
- the play button ">"
- the skip forwards button ">>|"

iVCD[™] always programs the "Return" button to return to the Menu Movie. It does not allow you to map actions to any other keys on your DVD/VCD Player Remote Control.

To implement a menu on your VCD is a 6 step process

- 1. Create a Menu movie which will allows the user to select items to watch.
- 2. Organize the movies the user will watch into play lists, each play list containing one or more movies.
- 3. Map each playlist to a mapable key on the remote control (0 through 9, " | <<", ">" or ">> | ").
- 4. Map other mapable keys on the remote control to actions. This is optional.
- 5. Decide if there is a time-out action that will be performed if the user does not make a selection in a specified amount of time. This is optional.
- 6. Burn the VCD. Follow the instructions in the "How to Make a VCD" section of this document.

These steps are explained below, using a sample movie that contains a still picture Menu Movie, five movies mapped to the numbers on the Menu Movie, the Play button ">" plays all five movies, and the time-out action is to play all five movies.

Step 1: Create a Menu Movie

Since iVCD[™] does not support still picture menus, you need to make a menu movie.

The menu movie should display what buttons you have programmed and what they do. In our example, we would remove the "My favorite movies" text, replacing it with a description and perhaps a picture from each of the four movies.



Figure 4: Menu Movie

If you want to use a still picture as a menu, import it into iMovie (or your favorite movie package) and save it as a movie that is at least 4 seconds long. Then use it as your menu movie.

If you want to use a movie as a menu, you'll want to consider making a looping menu. Otherwise, the movie will only play once when you start the movie, displaying the last frame until the time-out action occurs, if there is one. Once you have created the Menu Movie, drag it into the Movie Files window and configure it as the Menu Movie. For more information, refer to the "The Enable Menu tab" section of this document.

Step 2: Organizing the Play lists

Each menu item is mapped to a play list, even if that play list only contains a single movie. In our example we have five movies: "springtime flowers.MOV", "summer gardening.MOV", "summer vacation.MOV", "fall leaves.MOV", and "winter ski trip.MOV"

We organize them into the following four play lists:

- Spring Play list containing "springtime flowers.MOV"
- Summer Play list containing "summer gardening.MOV" and "summer vacation.MOV"
- Fall Play list containing "fall leaves.MOV"
- Winter Play list containing "winter ski trip.MOV"

To create the play lists,

- 1. Drag the five movies into the movie list
- 2. Create the four play lists above
- 3. Drag the movies into the play lists.

For more information, refer to the "How to make changes to the Movies List" section of this document.

In our example, our movie list would look like the following:

@ menu4.mov	
🖉 🗇 PL 1	
mirethmovie1.mov	
▶ 🗇 PL2	Add
▶ []] PL3	
► 🗊 PL4	Delet

Figure 5: Example Movie List

Step 3: Mapping Play lists to Numbered Remote Control Buttons

Now that the movies have been organized into play lists, we can map each play list to the Remote Control Button corresponding to a Menu Item on the Menu Movie.

In our example we have four play lists to map to the Remote Control Buttons corresponding to the four Menu Items, 1 through 4, on the Menu Movie. We'll map them as follows:

- Spring Play list to Number 1
- Summer Play list to Number 2
- Fall Play list to Number 3
- Winter Play list to Number 4

To map the play lists to the Remote Control Buttons, use the "Mapping buttons" in the Menu tabs. For more information, refer to the "The Menu Tabs" section of this document.

In our example, our map would have the buttons 1 through 4 map, like the figure below.

 No Menu	Enable Menu
menu4.mov	1 0.59 1 2 3 4 5 6 7 8 9 0 (< 5)

Figure 6: Example Remote Control Mapping

Step 4: Mapping Play lists to Other Remote Control Buttons

- You can also map play lists to the following Remote Control buttons:
- the skip backwards button " | <<"
- the play button ">"
- the skip forwards button ">>|"

In addition, iVCD[™] always programs the "Return" button to return to the Menu Movie.

In our example we will map a play list that plays all the movies to the play button ">". To do this we need to create a new play list.

To create the play list,

- 1. Create the a new play lists and name it "All"
- 2. Drag the other four play lists into the "All" play list.

For more information, refer to the "How to make changes to the Movies List" section of this document.

🔄 menu4.mov	
🖉 🕼 all	F
Summer	
▶ 🗊 fall	Add
🕨 🗊 winter	
▶ 🗊 spring	Delet

Figure 7: Movie List with "All" Playlist

In our example, our map would have the ">" button mapped to the "All" playlist, like in figure 9.

Step 5: The Time-Out Action

The Time-Out Action specifies which play list is played if no selection is made from the menu after the specified amount of time. Configuring a default action is optional.

If you've used a still picture as a menu and you want to configure a time-out action, use the "Looping Menu" feature, configuring the number of times stepper to 1. For more information, refer to the "The Looping Menu controls" section of this document.

If you've used a movie as a menu and you want to configure a time-out action, you should consider showing the menu movie more than once, with some delay between showings before performing the time-out action. Using, the "Looping Menu" feature, configure the number of times stepper to more than 1. For more information, refer to the "The Looping Menu controls" section of this document.

If you want the time-out action to be playing a particular play list, configure that play list using the "time-out" button in the "Looping Menu" controls.

In our example, we will play the Menu Movie, looping it 1 time. If no selection is made after 59 seconds, the time-out action of playing all the movies will be performed. To do this, we do the following:

- Using the looping control on the Enable Menu tab, set the number of times stepper to 1.
- 2. Set the wait stepper to 59 seconds (0:59).
- 3. Select the "All" play list as the time-out play list.

For more information, refer to the "The Enable Menu tab" section of this document.

In our example, our map have the Looping Menu controls configured, like in figure 9.

Step 6: Burn the VCD

Follow the instructions in the "How to Make a VCD" section of this document to burn the VCD. Test all the menu items and any other actions you have configured to ensure that it all performs as expected before you use it.

Creating DVDs with a menu

Follow the same steps used to create a VCD menu. A DVD menu will be created and the Playlist names will be displayed and selectable like any standard DVD menu.

Differences from VCD

The following list the things that are different when making a DVD menu instead of a VCD menu.

- 1. Only the buttons numbered 0-9 and the > button are used. If you map other buttons, they will be ignored.
- 2. The name of the play list will be displayed on top of your menu movie so, unlike a VCD, you should not include any text related to menus in your menu movie. Button 0 is at the top of the screen and the > button is at the bottom of the screen. The other buttons map to their relative positions on the screen as shown in this example so if you only mapped buttons 0, 1, and > then only the highlighted menu position would be displayed (the unused items would not be displayed):

Play list for button 0	Play list for button 1
Play list for button 2	Play list for button 3
Play list for button 4	Play list for button 5
Play list for button 6	Play list for button 7
Play list for button 8	Play list for button 9
Plav list f	or button >

3. Looping menus do not timeout, the loop delay is used to repeat the menu movie infinitely. If the menu is not set to loop it will play once and pause until a menu item is selected.

If you understand how DVD menus image files work then you can override the default iVCD menu with a custom menu of your own design. Create three PNG files named Menu_0_0.png, Menu_0_1.png, and Menu_0_2.png and put them in a folder called CustomDVDMenu. Put the CustomDVDMenu folder inside the folder where your iVCD project assets are stored. Then when you create your DVD image, iVCD will use your PNG files for the menu instead of the ones it created.

Help

Troubleshooting Guide

If you have a problem with the software, please do the following:

- Refer to the "Known Problems" section of this document for the latest information on existing problems.
- Check our site for answers to your question:

http://mireth.com

- If your question is not answered, please contact Product Support at support@mireth.com. Please include the following information:
 - Problem description.
 - If you are having problems with a particular product, please include the following information as well:
 - What product and version you are having problems with. To find the version number,
 Mac: single click the product icon and Get Info (OS8/9- File:Get Info) (OSX- File:Show Info)
 Windows: single click the product icon and show properties (File:Properties:Version tab)
 - What OS version you are running. To find the version number, Mac: OS8/9: (Apple Menu:About this Computer) OS X: (Apple Menu:About this Mac) Windows: (Start Menu:My Computer:Help:About Windows)
 - • Whether you are using the demo version or the registered version of the product

Known Problems

- *iVCD[™]creates discs with no audio if the .MOV uses MPEG media* This is a problem because Quicktime will not extract the audio from a .MOV that uses MPEG media. The solution is to use the .mpg directly (don't wrap it in a .MOV) to make your disc. If you are downloading the .mpg from the Internet, control-click the link to save the movie as a .mpg file instead of single clicking it and saving is as a Quicktime movie. This problem may also occur if you use iTunes protected songs in your iMove. To use that type of movie first export it using a DV video setting and an uncompressed audio setting.
- *iVCD*TM*creates discs with no audio if the .MOV uses protected iTunes media* This is a problem because Quicktime will not extract the audio from a .MOV that uses iTunes protected songs in your iMove. To use that type of movie first export it to Quicktime using a DV video setting and an uncompressed audio setting.
- *iVCD*[™] *needs Quicktime components for some movies iVCD*[™] *will* only create a disc from Quicktime movies if you have the component

required to play them. For example, to make a disc from an MPEG-2, you need the MPEG-2 Playback Component component.

- *iVCD[™] keeps all media in the project folder so using the same movie on different VCDs or DVDs requires it to be converted to MPEG more than once iVCD[™] keeps everything related to a VCD or DVD in the project folder. A future version of iVCD[™] may consolidate MPEG media so that multiple conversions are not required.*
- Eject button ejects all CD media if the computer has multiple CD/DVD drives iVCD[™] will eject multiple CDs if you have multiple drives attached to the computer and you press the eject button. The workaround is to use the erase or burn setup panels to eject the CD as they allow you to select a CD-RW drive. Since most Macintosh computers have only 1 optical drive, this problem may not affect you.
- *Burning VCDs fails with an error* This is a problem if you are using Mac OS X 10.2 or earlier. Upgrade to Mac OS X 10.3 which has much improved support for disc recording.

If you still have problems burning discs, open the Preferences, click the Burn tab and select CDR Disk At Once (cdrdao) instead of Apple Disk Recording. The Restart your Macintosh. If you still have problems burning discs, your CD Drive is not supported.

Appendix A - Demo

The iVCDTM DEMO is iVCDTM without a Serial Number. It is provided so that you can see how the program works. The demo looks and performs exactly like the full version of the software, but overlays a text message on the video that you produce.

Once you have purchased iVCDTM, you can enable the fully functional version of the program by entering the registration information.

How to install and run the iVCD[™] demo

- 1. To install, follow the "How to Install iVCD[™]" instructions in this document, omitting Step 3. (To run the demo, registration is not required.)
- 2. To run, follow the "How to Use iVCDTM" instructions in this document.