



# Flip Player 3.2

Multimedia Player

User's Guide



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# Preface

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Telestream, Inc.  
848 Gold Flat Road  
Nevada City, CA 95959

You can call Telestream, Inc. via telephone at (530) 470-1300.

## Telestream Contact Information

To obtain product information, technical support, or provide comments on this guide, contact us using our web site, email, or phone number.

**Table 1.** Telestream Contact Information

Resource	Contact Information
Telestream Technical Support	Web site: <a href="http://www.telestream.net/telestream-support">www.telestream.net/telestream-support</a> Support Email: <a href="mailto:support@telestream.net">support@telestream.net</a>
Flip4Mac Technical Support	Web site: <a href="http://www.telestream.net/telestream-support/flip4mac-wmv/support.htm">www.telestream.net/telestream-support/flip4mac-wmv/support.htm</a>
Telestream, Inc.	Web site: <a href="http://www.telestream.net">www.telestream.net</a> Sales and Marketing Email: <a href="mailto:info@telestream.net">info@telestream.net</a> Telestream, Inc. 848 Gold Flat Road Nevada City, CA. USA 95959
International Distributor Support	Web site: <a href="http://www.telestream.net">www.telestream.net</a> See the Telestream Web site for your regional authorized Telestream distributor.
Telestream Technical Writers	Email: <a href="mailto:techwriter@telestream.net">techwriter@telestream.net</a> If you have comments or suggestions about improving this document, or other Telestream documents—or if you've discovered an error or omission, please email us.



# Overview

## Introduction

Flip Player is a very versatile multimedia player. You can use it to view many kinds of files, including most video and audio files. Flip Player supports the most popular formats on the Internet for news, sports, education, movie trailers, and other entertainment.

Flip Player plays everything QuickTime supports by default such as MOV and MP4/H.264/AAC. Additional format support can be added through QuickTime components. Flip4Mac must be installed to play, convert and create Windows Media. For details see [Windows Media® Components for QuickTime](#).

## Topics

- [What's New](#)
- [Windows Media® Components for QuickTime](#)
- [Feature Comparison](#)
- [System Requirements](#)

## What's New

- Performance improvements when loading Windows Media files
- Aspera is the new e-commerce provider for in-app purchases

Flip Player is a newly introduced multi-format video player for playing, editing, and transcoding that replaces the WMV Player application.

## Windows Media® Components for QuickTime

Flip4Mac is the official Windows Media player on Mac OS X—supported and hosted by Microsoft. This collection of QuickTime™ components allow you to easily play, import, and export Windows Media® files. Flip4Mac can be used with Flip Player and most of your other favorite QuickTime-compatible applications such as Apple Compressor,

iMovie, Keynote, PowerPoint as well as Web browsers such as Safari, Firefox and Chrome. Flip Player works with Flip4Mac components providing an easy to use tool for viewing and exporting media; exact Flip Player features vary depending on which version of Flip4Mac you have.

For information on Flip4Mac, please read the Flip4Mac User Guide found in the Flip4Mac folder (within your Applications folder), installed as part of the Flip4Mac installation. The Flip4Mac manual discusses the components, use with 3rd-party applications, and integration with Web browsers.

By upgrading Flip4Mac to Player Pro, Studio, or Studio Pro HD, you can also import Windows Media files for editing, and create Windows Media files in SD or HD for distribution. These features are available in demo mode until you are ready to purchase an upgrade to another Flip4Mac edition. Whichever version of Flip4Mac you have installed determines the feature set of Flip Player, with more advanced features available in the Pro versions.

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**Note:** Demo mode is the default mode of operation when using unlicensed software. This results in truncated exports.

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From Flip Player, you can purchase an upgrade to Flip4Mac by going to Preferences > License, clicking the lock icon at the bottom of the screen to unlock, and then clicking the “Purchase License” button on the screen. Alternately you may also upgrade in Flip4Mac—see [Manually Entering a Serial Number](#) in the Flip4Mac User Guide. Finally, you can also purchase an upgrade online at the [Telestream Store](#).

## Licensing Levels

Flip Player has four licensing levels: Player, Player Pro, Studio, and Studio Pro HD.

### Player

Flip Player enables you to play everything QuickTime supports by default such as MOV, MP4, H.264, and AAC files. Additional format support can be added through QuickTime components. Flip4Mac is the official Windows Media player on the Mac and adds support for WMV and WMA to Flip Player. Telestream is committed to extending format support in future releases of Flip Player to provide official and legal multi-format support.

Flip Player dynamically fades-in navigation controls, but only when you need them and never on top of your video. With a simple, uncluttered design, Flip Player makes it easy to navigate through your video. You can scrub, fast-forward, rewind, skip, jump or step, without ever obscuring your video content.

For brilliant and distraction-free video playback, use the *Dim Lights* feature to dim the background of your screen. Full pixel-to-pixel fidelity without any scaling or interpolation is also provided.

You can convert your media with easy-to-use export templates optimized for import into applications such as:

- iMovie
- iPhoto
- Mail
- iPhone
- iPod
- Apple TV

## Player Pro

*Player Pro* includes all *Player* features, plus it enables you to import Windows Media video and audio for editing or for conversion to other QuickTime formats.

Player Pro enables you to convert Windows Media files to other formats for iPod, iPhone, iPad, Apple TV, iMovie, iPhoto, iTunes or Final Cut Pro. The Flip4Mac Player Pro license level is also required for performing these actions in Flip Player, regardless of whether the source or output is Windows Media:

- Scale
- Trim
- Crop
- Rotate
- Save As
- Revert
- Export to Final Cut Pro ProRes
- Export to iPhone Ringtone
- Slow Motion Playback
- JKL Controls
- Comma/period frame stepping

## Studio

*Studio* includes all *Player Pro* features, plus it enables you to create Windows Media files by exporting video and audio from a QuickTime application.

You can export Windows Media directly from QuickTime applications including Flip Player, QuickTime Player 7 Pro, Final Cut Pro 7, and Final Cut Pro X (using Compressor). You can also export Windows Media from Telestream's ScreenFlow. The export process is simplified by using a variety of preset encoding profiles to meet most needs, which cannot be modified.

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**Note:** To export WMV from Final Cut Pro X, you must do so via Final Cut Compressor.

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## Studio Pro HD

*Studio Pro HD* includes all *Studio* features, plus it adds the ability to create high-definition video and two-pass HD encoding profiles. The WMV 9 Advanced Video codec, WMA 9 Professional codec, and WMA 9 Lossless audio codec are also available.

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**Note:** License badges are used in this User's Guide when a feature requires a license level above the free player:

PRO

STUDIO

STUDIO PRO HD

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## Feature Comparison

Use these tables to determine which features are provided at each license level (basic and upgrades). One-pass standard definition encoding presets are provided on all license levels. However, Studio Pro HD also enables you to create custom two-pass high definition presets.

**Table 2.** Flip Player Import and Export Features at each License Level

License	Features	Restrictions
Player	<ul style="list-style-type: none"><li>• Playback</li></ul>	<ul style="list-style-type: none"><li>• Video and audio watermarks on Windows Media file conversions to MOV files.</li><li>• Windows media exports truncated to thirty seconds. If the source file is less than thirty seconds, it is truncated to half the duration.</li></ul>
Player Pro	<ul style="list-style-type: none"><li>• Playback</li><li>• Importing (Transcoding from WMV)</li></ul>	<ul style="list-style-type: none"><li>• Windows Media exports truncated to thirty seconds. If the source file is less than thirty seconds, it is truncated to half the duration.</li><li>• Only one-pass encoding presets available.</li><li>• Only standard-definition encoding presets available.</li></ul>



**Table 2.** Flip Player Import and Export Features at each License Level

License	Features	Restrictions
Studio	<ul style="list-style-type: none"> <li>• Playback Importing (Transcoding from WMV)</li> <li>• Exporting</li> <li>• (Transcoding to WMV)</li> </ul>	<ul style="list-style-type: none"> <li>• Only one-pass encoding presets available.</li> <li>• Only standard-definition encoding presets available.</li> <li>• Custom settings disabled. Must use a preset.</li> <li>• WMV 9 Advanced not available.</li> <li>• WMA 9 Professional and WMA 9 Lossless not available.</li> <li>• Unavailable 4:3 frame sizes: 384 x 288, 480 x 360, 768 x 576, 960 x 720, 1280 x 1080</li> <li>• 4:3 CCIR frame sizes unavailable.</li> <li>• Unavailable 16:9 frame sizes: 960 x 540, 1280 x 720, 1920 x 1080</li> <li>• Maximum 48 kHz audio in exports.</li> <li>• Variable bit rate encoding is not supported (VBR).</li> </ul>
Studio Pro HD	<ul style="list-style-type: none"> <li>• Playback</li> <li>• Importing</li> <li>• Exporting</li> <li>• Creating Custom Presets</li> <li>• Two-Pass Encoding</li> <li>• High Definition Exports</li> <li>• WMV 9 Advanced</li> <li>• WMA 9 Professional</li> <li>• WMA 9 Lossless</li> <li>• Up to 96 kHz audio</li> <li>• Variable Bit Rate (VBR) encoding methods are available.</li> </ul>	<ul style="list-style-type: none"> <li>• No restrictions.</li> </ul>

**Table 3.** Flip Player Application Features at each License Level

License	Features	Restrictions
Player	<ul style="list-style-type: none"> <li>• Playback</li> </ul>	<ul style="list-style-type: none"> <li>• Editing (crop, rotate, trim, and scale) can be performed in the Flip Player, but not saved or exported.</li> <li>• Slow motion playback is not available.</li> <li>• iPhone Ringtone exports are not available.</li> <li>• Final Cut Pro exports are not available.</li> <li>• Frame stepping using comma and period keys is not available.</li> <li>• JKL keyboard controls are not available.</li> </ul>

**Table 3.** Flip Player Application Features at each License Level

License	Features	Restrictions
Player Pro	<ul style="list-style-type: none"><li>• Playback</li><li>• Editing</li><li>• Slow Motion Playback</li><li>• iPhone Ringtone Exports</li><li>• Final Cut Pro Exports</li><li>• Command/Period Frame Stepping</li><li>• JKL keyboard controls are available.</li></ul>	<ul style="list-style-type: none"><li>• Windows media exporting requires Flip4Mac Studio or Studio Pro HD</li></ul>

## System Requirements

The operating system requirement is: OS X (on Intel) Version 10.7 Lion and later.

# Installing and Upgrading

## Introduction

This section will demonstrate how to install, remove, update, and customize Flip Player.

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**Note:** Installers are available on [Telestream.net](http://Telestream.net) for installing Flip Player by itself or installing Flip4Mac and Flip Player together.

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## Topics

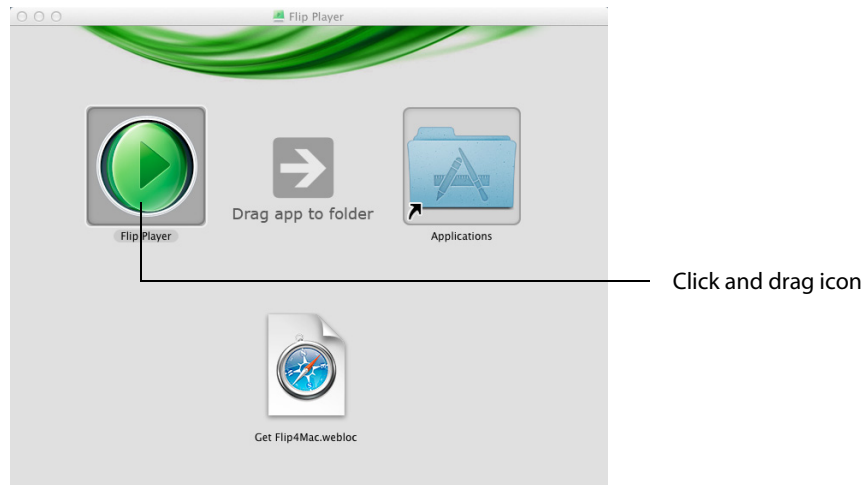
- [Installing Flip Player](#)
- [Uninstalling Flip Player](#)
- [Upgrading Flip Player](#)
- [Checking for Updates to Flip Player](#)
- [Manually Entering a Serial Number](#)
- [Deactivating a Serial Number](#)
- [Activating a Serial Number](#)

## Installing Flip Player

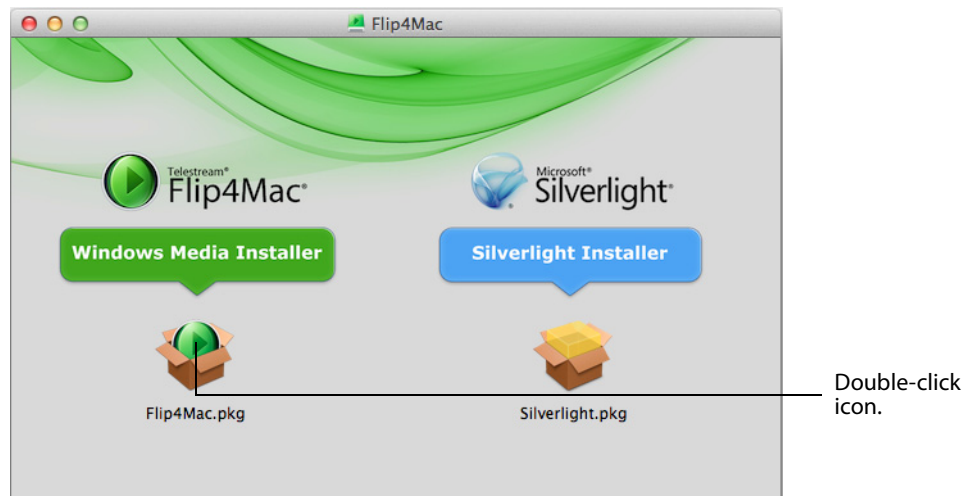
To install Flip Player, you must be logged on as a user with administrator rights, and you must provide your administrator name and password during installation. Quit all QuickTime applications (Safari, Firefox, Google Chrome, Flip Player, QuickTime Player, etc.) and follow these steps:

1. Download the DMG file from the Web site or obtain it on media.
2. Locate the DMG file (in your Downloads folder, if you obtained it from the Web).
3. Double-click the disk image file to mount the disk image.

4. Click and drag *Flip Player* icon into the Applications folder.



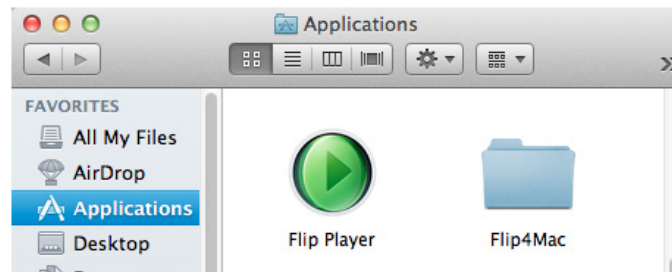
5. If you are installing Flip4Mac, double-click *Flip4Mac.pkg* icon, and follow the steps to install both Flip4Mac and Flip Player software.



6. Relaunch your Web browser and QuickTime applications.

If both Flip Player and Flip4Mac are installed, there will be a Flip Player application and Flip4Mac folder in your Mac Applications folder, otherwise only the Flip Player

application will be present. You can run Flip Player at any time by double-clicking the application icon. You can drag the icon to your dock for easy access in the future.



## Uninstalling Flip Player

To remove Flip4Mac and Flip Player from your computer when both are installed, follow these steps:

1. In the Finder, open the *Applications > Flip4Mac* folder.
2. Double-click *Flip4Mac Uninstaller.pkg* and follow the instructions.
3. Relaunch your Web browser and QuickTime applications.

---

**Note:** The uninstaller does not remove the Flip Player preferences or serial numbers you have purchased.

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To remove only Flip Player, drag the Flip Player icon to the trash.

## Upgrading Flip Player

Upgrading Flip Player unlocks certain features which enable you to import Windows Media files for editing and create Windows Media files for distribution. You do not need to download a new version. To enable these features, visiting the [Telestream Store](#) to purchase and activate Flip Player.

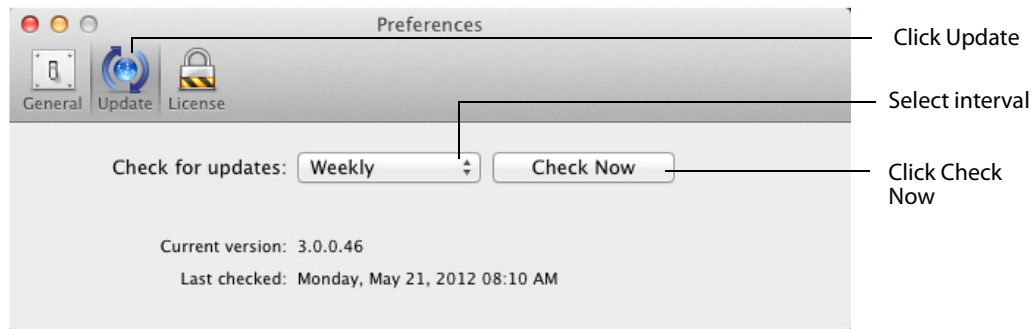
## Purchase Online at the Telestream Store

If you installed Flip Player on a computer without Internet access, you can purchase an upgrade by visiting the [Telestream Store](#) on another computer. When the purchase is complete you'll receive an email containing your serial number. Review the [Manual Activation Guide](#) ([www.telestream.net/pdfs/user-guides/Manual\\_Activation\\_Guide.pdf](http://www.telestream.net/pdfs/user-guides/Manual_Activation_Guide.pdf)) on the Telestream Web site for step-by-step instructions on manually activating your serial number.

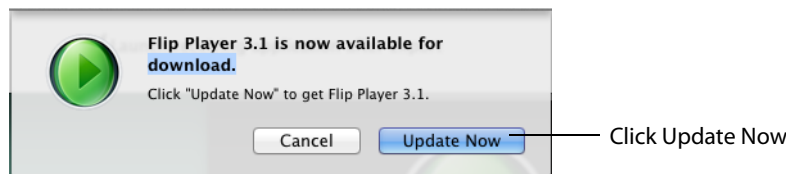
## Checking for Updates to Flip Player

To use Flip Player Preferences to check for software updates manually (or at scheduled intervals), follow these steps:

1. Select *Flip Player > Preferences*, then click the *Update* icon.
2. To change the interval at which Flip Player checks for updates, choose Daily, Weekly, Monthly or Never from the *Check For Updates* menu.
3. To check for updates manually, click *Check Now*.



4. If an update is available, you'll be notified. If a notification displays, click *Update Now*.



## Manually Entering a Serial Number

If your computer is connected to the Internet and you purchased an upgrade via the Telestream Store online, you may use the email receipt (which contains your serial number) to manually activate Flip Player. Manual activation is also used for activating a serial number in Flip Player on another Mac.

To enable the upgraded features when you purchase a serial number in this manner (or if you are entering the same serial number in additional copies of Flip Player), you must have access to the Internet, and you must manually enter the serial number to activate the features you purchased.

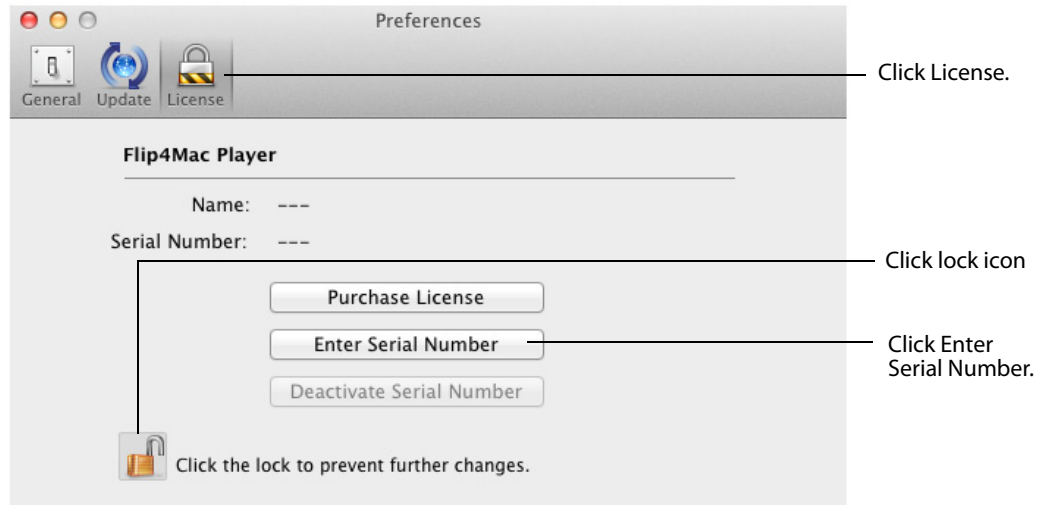
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**Note:** If your Mac does not have Internet access, do not use this process. Instead, use a separate computer with Internet access to open the [Manual Activation Guide](http://www.telestream.net/pdfs/user-guides/Manual_Activation_Guide.pdf) on the Telestream Web site ([www.telestream.net/pdfs/user-guides/Manual\\_Activation\\_Guide.pdf](http://www.telestream.net/pdfs/user-guides/Manual_Activation_Guide.pdf)) for a step-by-step guide to manually activate the component after purchasing an upgrade.

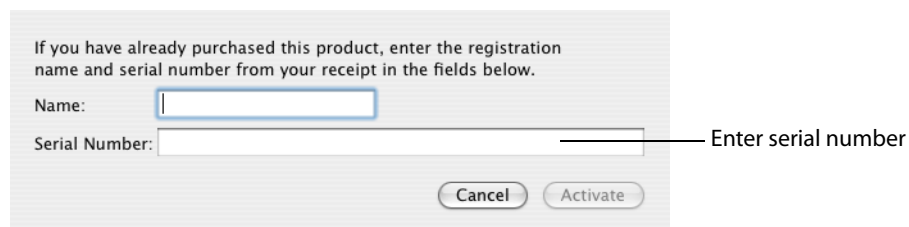
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1. Select *Flip Player > Preferences*, then click the *License* icon.

2. Click the lock icon, enter your administrator name and password, and then click OK to enable the Serial Number button. Click *Enter Serial Number* to enter your serial number.



3. When the Serial Number dialog displays, enter the registration serial number exactly as it exists in your receipt email. (It is best to copy and paste the serial number to avoid typing mistakes.) When typing it in, be sure to enter only zeroes (no letter O's), capitalize all letters, and include all hyphens. The Name field is optional except for users with very old serial numbers.




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**Note:** If you experience problems activating, contact Telestream Customer Support at: [desktopsupport@telestream.net](mailto:desktopsupport@telestream.net) or 877-681-2088.

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4. When the serial number is entered correctly, the Activate button is enabled, and you can click *Activate*. The Telestream Store is contacted and activates the serial number for your computer.

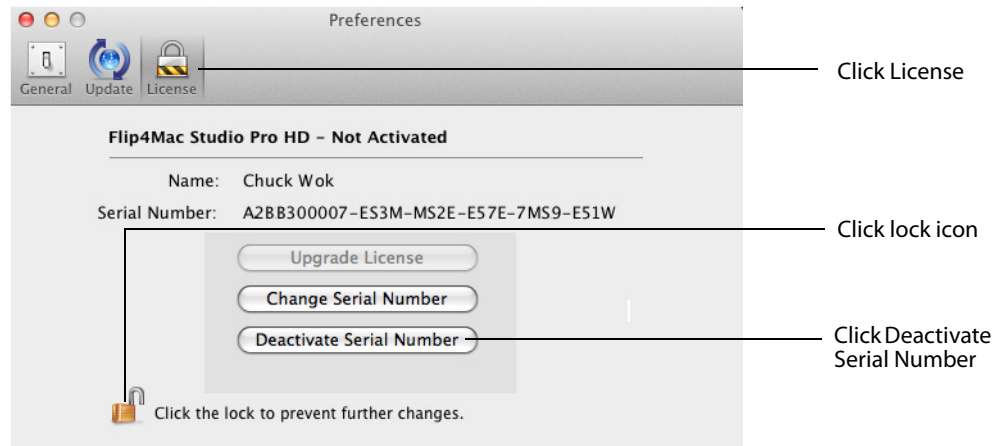
## Deactivating a Serial Number

A Flip Player serial number can only be active on one computer at a time. But, you can enter it on multiple computers (see [Manually Entering a Serial Number](#)), making it available on many. Before activating Flip Player on a different computer, you must deactivate where ever it is currently activated. In other words, you can deactivate it and

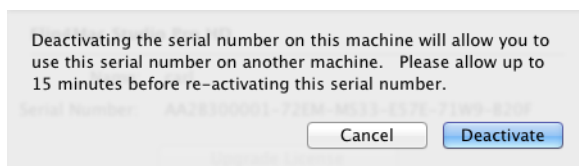
then activate it elsewhere as needed. (See [Activating a Serial Number](#).) This makes the use of the serial number more flexible, and avoids unnecessarily purchasing extra licenses.

To deactivate a Flip Player serial number on a particular computer follow these steps:

1. Select *Flip Player > Preferences*, then click the *License* icon.
2. Click the lock icon and enter your administrator name and password and click OK to enable the buttons. Click *Deactivate Serial Number*.



3. When the dialog box displays, click *Deactivate* to deactivate your serial number on your computer (which must have Internet access). This enables you to activate this same serial number on another computer.



## Activating a Serial Number

If you previously deactivated a serial number to make it available on another computer, you can activate it by following these steps:

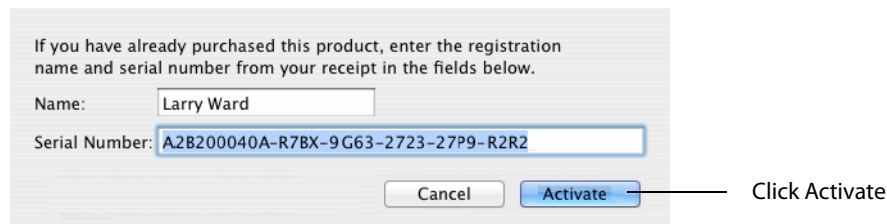
1. Select *Flip Player > Preferences*, then click the *License* icon.



- Click the lock icon and enter your administrator name and password, then click OK to enable the buttons. Click *Activate Serial Number*.



- When the Serial Number window displays, click *Activate*. The Telestream Store is contacted and your serial number is activated on your computer.





# Basic Features

## Introduction

This section presents the basic features of Flip Player.

### Topics

- [Opening Media with Flip Player](#)
- [Editing Media Files](#)
- [Movie Playback and Editing Controls](#)
- [Setting Audio Volume and Muting](#)
- [Viewing Controls](#)

## Opening Media with Flip Player

When Flip Player is installed, Windows Media files become automatically *associated* with Flip Player. When you open a Windows Media file, Flip Player is automatically launched and plays that file.

To manually associate a Windows Media file with Flip Player hold down the control key and click the file icon in Finder (or right-click) to display the shortcut menu, then select *Open With > Flip Player*. Finder changes the file association and opens the file.

To permanently change the file association, select a file in Finder, right-click and select *Get Info*, click *Open With*, choose *Flip Player*, then click *Change All*.

Other media file types, in addition to Windows Media, can also be opened and played similarly. (See the list of [Supported Codecs, Formats, & Protocols](#).)

For convenience, you can add the Flip Player application to your dock by dragging it from the Applications folder. To open other Windows Media files, drag and drop them onto the Flip Player icon.



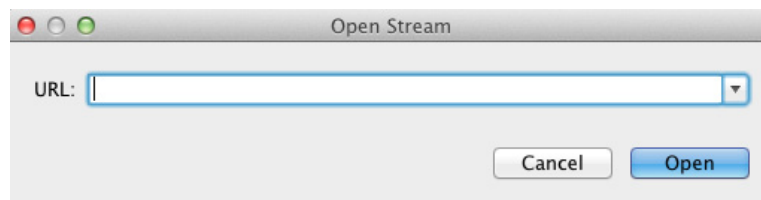
Drag and drop Windows Media files onto the Flip Player icon

## Opening a video file

Select *File > Open File*, or press the command + O keys, to open a media file in Flip Player. When the Open dialog box displays, navigate to the file you want to open and click *Open*. Click *Cancel* if you decide to not open any media files. The file navigation window provides a variety of display and sorting options, accessed by clicking the icons at the top of the window.

## Opening a Movie Stream

To open a movie stream in Flip Player, select *File > Open Stream*, enter a valid URL for the movie source then click *Open*.



## Opening Recent Media Files

You can re-open previously opened media files by selecting *File > Open Recent*. This displays your most recently accessed media files. Every time a file is opened or saved it is entered into the list.

---

**Note:** The number of recent items is dependent on the user's settings in the General pane of the System Preferences.

---

## Simultaneously Playing Multiple Movies

You can have more than one Flip Player window open at a time.

To open more than one Flip Player window, do one of the following:

- Double-click another video file.
- Control-click (or right-click) a movie file and then select *Open With Flip Player*.

When you have more than one Flip Player window open, the audio plays only on the active (top) window.

## Editing Media Files

The Edit Menu offers selections for editing of video and audio content.

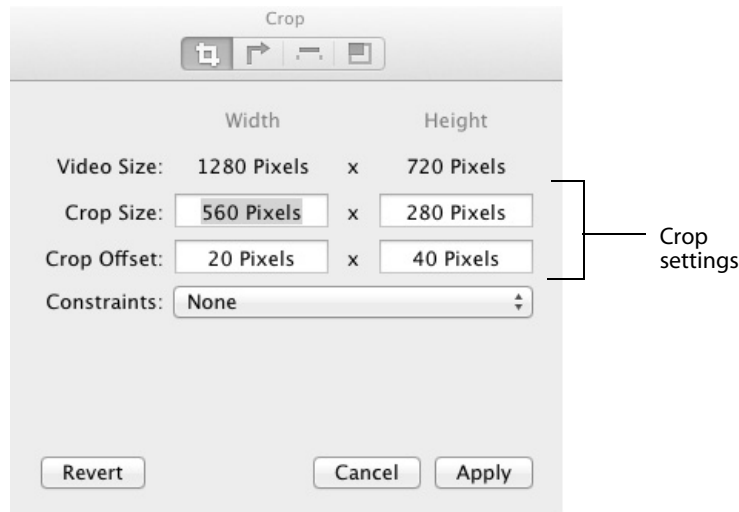
Edit	Control	Audio	View	Exp
Undo				⌘Z
Redo				⇧⌘Z
Cut				⌘X
Copy				⌘C
Paste				⌘V
Paste and Match Style				⇧⌘V
Delete				
Select All				⌘A
Select None				
Crop				⌘K
Rotate				⌘R
Trim				⌘T
Scale				⌘G
Special Characters...				⇧⌘T

Cut, Copy, Paste, Delete, and Select All can be used when in Trim mode for basic video clip editing. You can also cut, copy, and paste between multiple video clip files. Crop, Trim, Rotate, and Scale are editing functions to edit the movie clip itself; these functions are described in the topics that follow.

## Cropping the Movie Frame PRO

The crop tool enables you to use just a portion of the visible picture. You might use this to make the picture frame smaller for fitting in a Web window application, or for fitting

a 4:3 or 16:9 aspect ratio that is sized smaller than the existing frame geometry. You can access the crop tool by selecting *Edit > Crop*, or by pressing the command + K keys.



The crop tool enables you to set the crop size, crop offset, and constraints (full screen, wide screen, or none). The settings selected in the crop settings window above are manifested in the video screen shown below. Each of the four settings represents one of the cropping edges.



*Crop Offset Width* is the amount of pixels that the selection is offset from the left side of the frame.

*Crop Size Width* is how wide the crop selection is in pixels.

*Crop Offset Height* is the amount of pixels that the selection is offset from the bottom of the frame.

*Crop Size Height* is how tall the crop selection is in pixels.

When you enter a new value, the screen will adjust its cropping frame when you enter another setting field. You can also click and drag on any of the handles of the crop selection to resize it, or in the center to move it.

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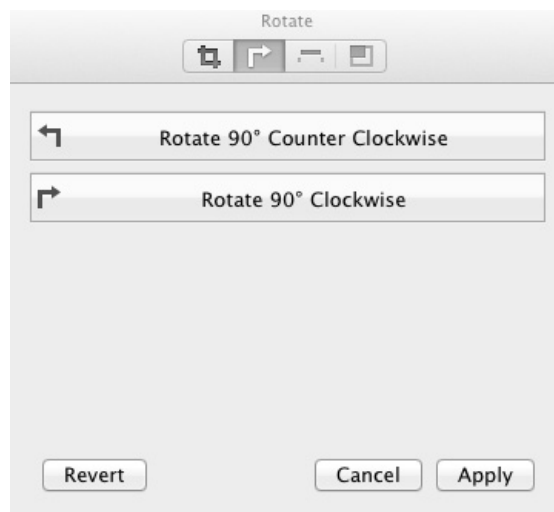
**Note:** Do not click *Apply* or press the Enter key until you have made all your cropping settings.

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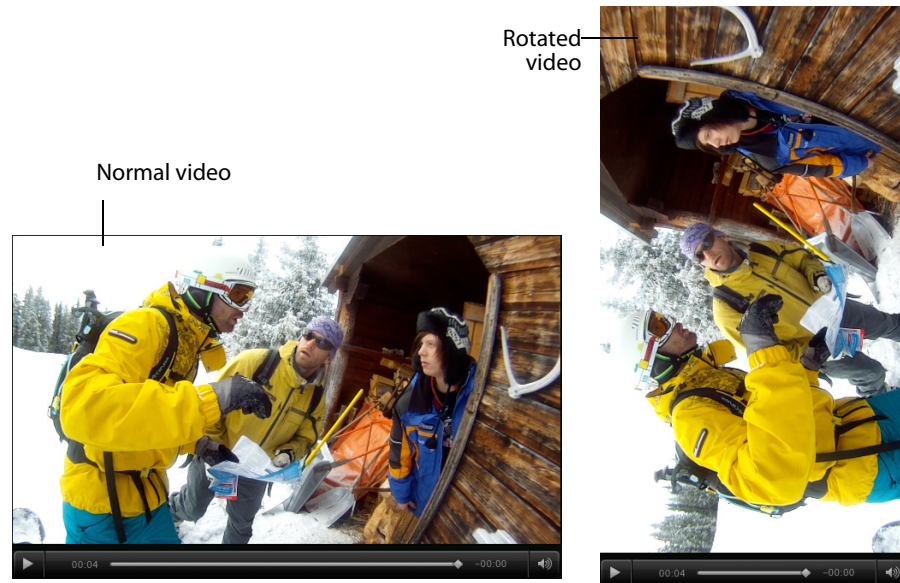
Once you are satisfied with the crop area selected, click *Apply* to implement your settings. Or, you can click *Cancel* to discard your changes. Once applied, you can re-enter the crop settings window and make cropping changes. Clicking *Revert* undoes all edits and restores the video to its original size. Revert cannot be undone.

## Rotating the Video **PRO**

You can change the orientation of a video by rotating it 90, 180, or 270 degrees. To rotate a video, open the rotation settings window by clicking *Edit > Rotate* or by pressing the command + R keys.



The rotate window enables you to rotate the video either clockwise or counter-clockwise by 90 degrees. Shown below is the result of a counter-clockwise rotation.



Multiple clicks of either rotation button causes additional rotations of the video. After rotating, click *Apply*, or press the Enter key, to implement your settings. Click *Cancel* to discard your changes. Once applied, you can re-enter the rotation settings window and make changes. Clicking *Revert* undoes all edits and restores the video to the way it exists in the file when it was first opened. Revert cannot be undone.

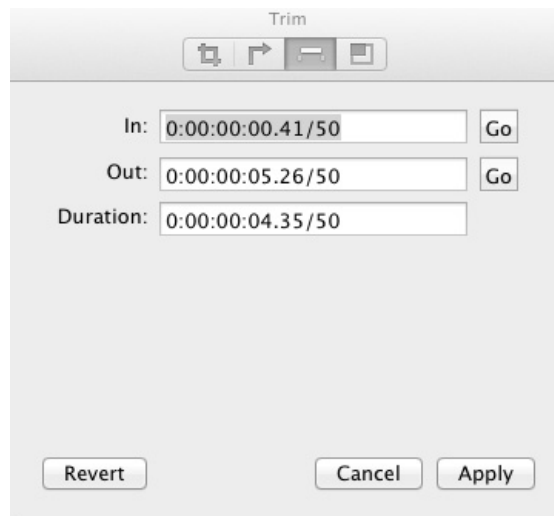
## Trimming the Video **PRO**

You can choose where a video clip begins and ends by setting trim points. Select *Edit > Trim*, or press the command + T keys, to open the trim settings window. The time format is: days, hours, minutes, seconds, fractional seconds, and scale (d:mm:hh:ss.ss/scale).

You can also enter partial values and have the rest filled in automatically, such as entering 30 for thirty seconds. However, you should make sure the scale is the same for all three fields, otherwise the calculations might not be what you expect (10.00/50

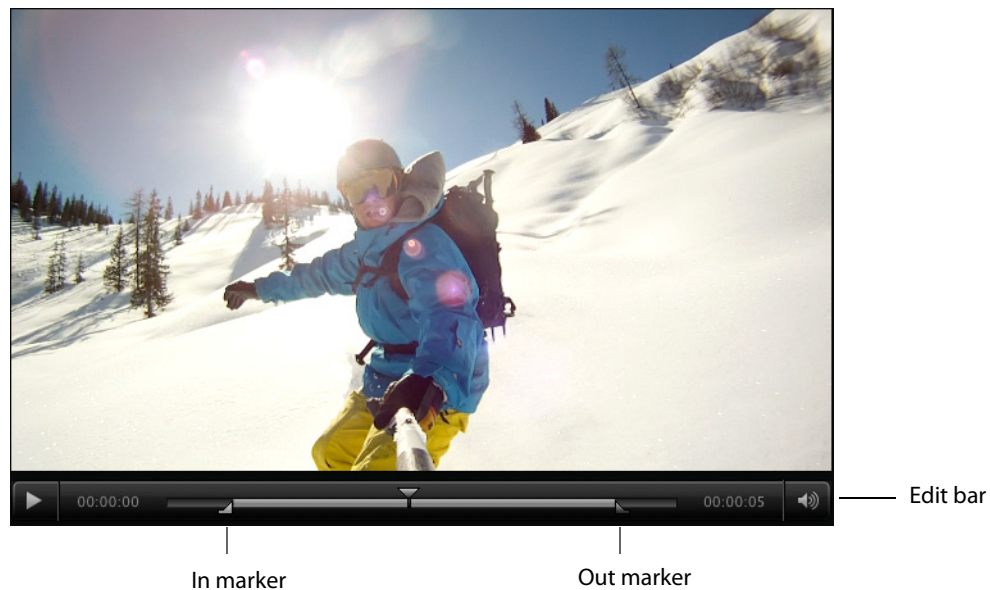


would be the same as 20.00/100). *Scale* is not the frame *rate*, even though it looks similar.



Enter a start time for the *In* marker and click *Go* to set the marker. Then enter an end time for the *Out* marker and click *Go* to set that marker. You can also set in and out markers by sliding them in the edit bar below the video.

To select a portion of a movie, move the *In* and *Out* selection markers or use the “I” and “O” keys on your keyboard. The lighter colored area between the two markers indicates the selected portion. To fine-tune the selection, select a marker and move it with the arrow keys.

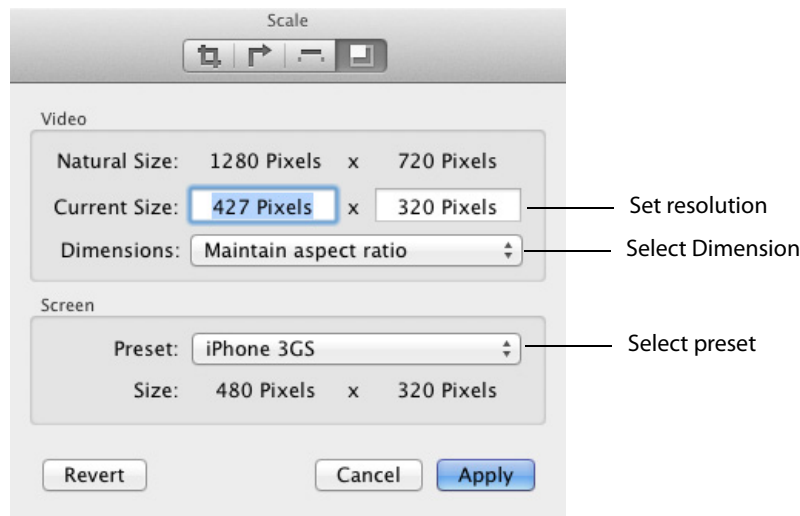


Cut, Copy, Paste, Delete, and Select All can be used when trimming video clips. Select the portion of the clip you want to Cut, Copy, or Delete, then select the Paste to place it in your target location. You can also cut, copy, and paste between multiple movies.

After trimming, click *Apply*, or press the Enter key, to implement your settings. Click *Cancel* to discard your changes. Once applied, you can re-enter the trim settings window and make changes. Clicking *Revert* undoes all edits and restores the video to its original length. Revert cannot be undone.

## Scaling Picture Resolution **PRO**

You can scale the picture (and optionally change the aspect ratio) for different devices or applications. Select *Edit > Scale*, or press the command + G keys, to display the scale settings window. In this window you can set the video resolution by entering the pixel size for the video height and width. You can also choose if the aspect ratio will be maintained or not in the Dimensions menu.



The Scale settings window displays the Natural Size (original size) and Current Size in pixels. If *Maintain aspect ratio* is selected, re-sizing will keep the aspect ratio intact as you change the size of the video. You cannot scale less than 240 x 240.

A variety of screen presets are available from the *Preset* menu. When a selection is made, the video re-sizes accordingly. Here are the available presets:



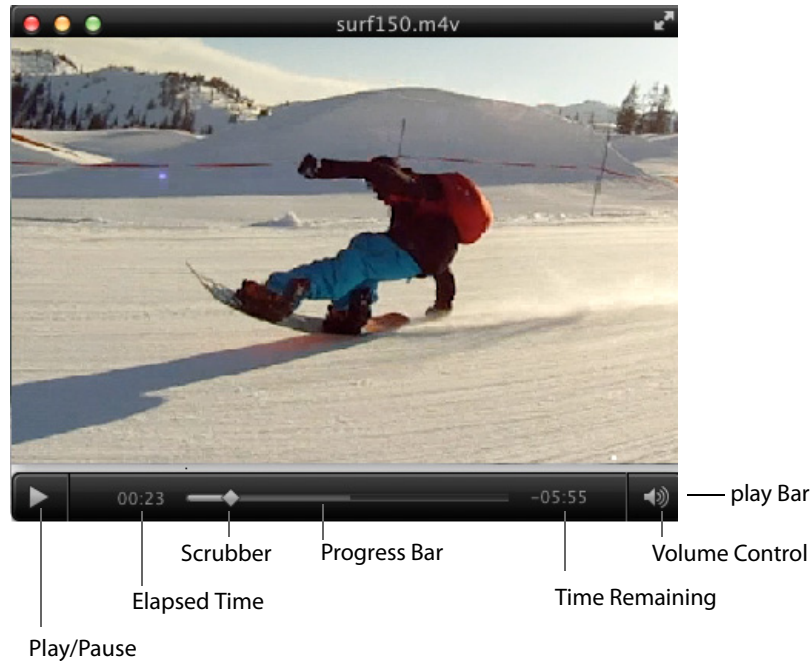
After scaling, click *Apply*, or press the Enter key, to implement your settings. Click *Cancel* to discard your changes. Once applied, you can re-enter the scale settings window and make changes. Clicking *Revert* undoes all edits and restores the video to its original size. Revert cannot be undone.

## Movie Playback and Editing Controls

Flip Player provides a variety of Control menu options and a play bar to allow you to move around within the movie for viewing or editing.

## Play Bar

The features of the play bar are shown below.



**Play/Pause** Click to play the video; click again to pause it.

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**Note:** In addition to clicking Play/Pause on the play bar, you can also play and pause by pressing the spacebar. It acts as a toggle between play and pause modes.

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**Elapsed Time** Displays time the video has been playing.

**Scrubber** Click and slide to change the location in the video you are viewing. You can also click on any position in the scrubber to jump the play head to that location.

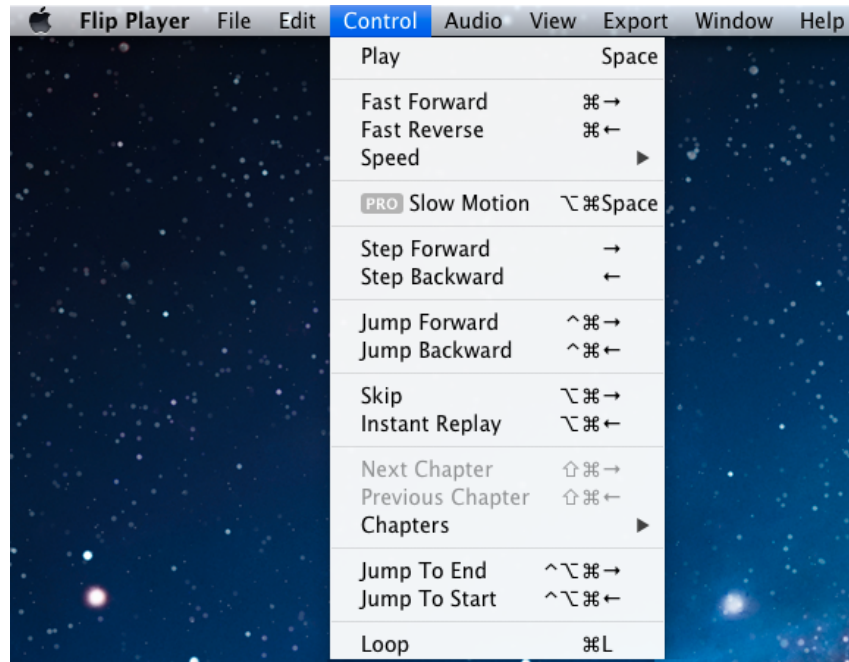
**Progress Bar** The progress bar indicates how much of the media has been downloaded.

**Elapsed Time** Displays time remaining for the video to play.

**Volume Control** Click to display a volume control slider.

## Play Controls

To access Control selections, select the *Control* menu. Control features include: Play, Fast Forward/Reverse, Slow Motion (Flip Player *Pro* only), Step, Jump, Skip, Instant Replay, Chapter selection, and Loop.



**Play** Click *Play* to begin playing your video. The word *Play* changes to *Pause* while playing media.

**Fast Forward/Reverse** Fast Forward speeds up playback and Fast Reverse plays backward rapidly. This enables you to move quickly to other locations in the video. Repeated clicks cause increased speeds (2x, 4x, etc.) of forward and reverse.

**Speed** Speed enables you to set the playback speed in increments of 1x, 2x, 4x, 8x, 16x, 32x, and 64x. When playing, the playhead displays the speed selected.



### PRO

**Slow Motion** Enables you to playback video at one fourth of normal playback speed. This feature is only available in the *Pro* (or above) version of Flip Player. Slow motion also available when pressing L and K keys together (forward slow motion) or J and K keys together (reverse slow motion).

**Step Forward/Backward** Step Forward moves the video one frame forward; Step Backward moves it one frame backward. You can also press the right and left arrow keys, or the comma and period keys to step forward and backward.

**Jump Forward/Backward** Selecting Jump forward or backward results in moving 10 seconds ahead or behind in the video.

**Jump To End/Start** Jump To End moves the video to the last frame; Jump To Start moves it to the first frame. If the video is paused, it will remain paused after the jump is executed.

**Skip** Skip enables you to jump forward 30 seconds into the video.

**Instant Replay** Instant Replay enables you to jump backward 8 seconds in the video. If video is playing, it will jump back and continue playing; if paused, it will jump back and stay paused.

**Previous/Next Chapter** Moves from the current location in the video to the previous or next chapter.

**Chapters** Moves to the chapter selected in the chapter list.




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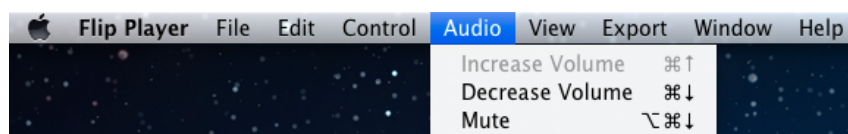
**Note:** The Chapter menu items (Next Chapter, Previous Chapter, and Chapter) are only enabled if the video has chapter markers embedded in it. If no chapter markers are present, the menu items are greyed out. Chapter markers are sometimes embedded in longer movie clips to divide sections of the media topically or by edit points.

---

**Loop** Enables you to play a video repeatedly. If Loop is selected, the movie will play again from the beginning whenever it reaches the end.

## Setting Audio Volume and Muting

Flip Player enables you to change playback volume. From the Audio menu select *Increase Volume* to increase the volume of the video, select *Decrease Volume* to decrease it, and select *Mute* to silence it entirely.



## Viewing Controls

Flip Player provides a number of viewing controls: full screen display, Flip Player window highlighting, screen sizing, and aperture control.

## Full Screen Display

You can set the screen so that only the movie is visible. This presentation setting is called *Full Screen* mode. (You can also size the movie player so it will play at whatever screen size you need.)

To play a movie at full screen, do one of the following:

- Select *View > Enter Full Screen*.
- Press the *command + F* keys.
- In the Flip Player screen, click on the Full Screen arrows icon in the top right hand corner

To quit full-screen mode, press the *esc* key, or press the *command + F* keys.

To adjust the picture to fit your screen, move the pointer to any corner of the active picture area, click to select the corner, and then drag the corner to the needed size.

---

**Note:** You must click on the corner of the *viewing area* of the screen—not on the title bar or play bar—to resize the movie player.

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**Note:** As long as *Full Screen* is selected, you can make hidden controls appear by moving the cursor over the video. However, the play bar can be made visible by moving the cursor over the video at any time, whether in full screen or not. The title bar will not appear in full-screen or edit modes.

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## Highlighting the Flip Player Window

To make viewing the Flip Player player window easier when you have lots of windows open, select *View > Dim Lights*. This isolates the Flip Player player window visually from all others on the desktop by fading everything else to a dark gray. Select *Dim Lights* again to disable this feature.

## Screen Sizing

Flip Player lets you adjust the size of the video display by providing four sizes: Half Size, Actual Size, Double Size, and Fit To Screen. Actual Size is a combination of the dimensions of the video essence in the file, the aperture mode, any scale edits, any crop edits, and any rotation edits. Half Size adjusts the display to half of the actual size. Double Size makes the display twice the size of actual. Fit To Screen causes the display to expand to the limits of the display.

## Aperture Control

The Aperture setting enables you to control the dimensions of the video, which may change the aspect ratio.

Flip Player provides five aperture settings:

**Classic** Content appears as it did in previous versions of QuickTime.

**Clean** The recommended setting for most video. Crops the video to the area of frame free from digitization artifacts and applies pixel aspect ratio correction. A 4:3 DV NTSC track appears as 640 x 480; a 16:9 DV NTSC track appears as 853 x 480.

**Production** Used for video production. Shows all pixels in the video including the edges and corrects for pixel aspect ratio. A 4:3 DV NTSC track appears as 654 x 480; a 16:9 DV NTSC track appears as 873 x 480.

**Encoded Pixels** Neither crops nor scales the video. A DV NTSC (4:3 or 16:9) track appears as 720 x 480.

**None** No aperture control is used.

For more detailed information on Aperture settings, see [QuickTime Pro: About the "Conform aperture to" setting](#) and [About QuickTime Aperture Display Modes](#).



# Advanced Features

## Introduction

This section presents the advanced features of Flip Player, including how to export Windows Media files, how to edit video and audio settings, and how to create custom encoder profiles.

## Topics

- [Exporting Media](#)
- [Exporting to Applications](#)
- [Exporting to Devices](#)
- [Exporting to a Format](#)
- [Export Settings](#)
- [Video Encoder Settings](#)
- [Advanced Video Settings](#)
- [Audio Encoder Settings](#)
- [Advanced Audio Settings](#)
- [Metadata Settings](#)
- [Silverlight Settings](#)
- [Creating Custom Encoder Profiles](#)

## Exporting Media

A powerful feature of Flip Player Pro is the ability to re-encode video and export a new movie clip for use by other applications and many popular devices (iPhone, iPod etc.). While not having the powerful features of Telestream Episode or Vantage, Flip Player is

handy for doing quick conversions of all container formats, audio codecs, and video codecs that are available in QuickTime.




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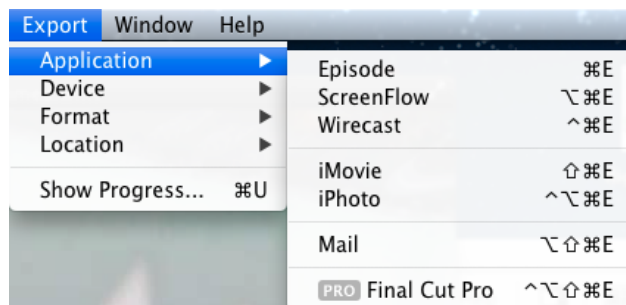
**Note:** You can export *from* all QuickTime supported formats, but you cannot export *to* all QuickTime supported formats.

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## Exporting to Applications

You can export Flip Player files to a variety of popular applications including: iMovie, iPhoto, Final Cut Pro X (Player Pro only), Episode, ScreenFlow, and Wirecast. This may or may not require transcoding, depending on the source format and which application you have selected. To export a video to an application, follow these steps:

1. Load a media file into Flip Player.
2. Select *Export > Application* and select an application from the list.




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**Note:** Episode, ScreenFlow, Wirecast, iPhoto, and Mail are all H.264 format. (H.264 is a video format in which the audio format and container format varies.) iMovie is AIC format. Final Cut Pro is ProRes format.

---

3. Once you have made a selection, Flip Player presents a Save dialog box asking you for a filename and a location then creates a new media file that works with the selected application. When you click *Save*, Flip Player displays a progress window that tracks progress. When completed, the newly exported file is ready for use with your application.

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**Note:** To automatically launch export-receiving applications such as Episode, ScreenFlow, Wirecast, iMovie, etc., they must reside in the Applications folder and they must not be renamed.

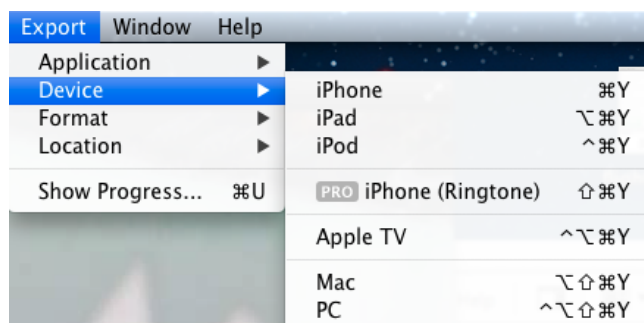
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## Exporting to Devices

Since so many devices play video (iPod, iPhone, iPhone-Ringtone (Player Pro only), iPad, AppleTV, Mac, and PC computers), Flip Player acts as a simple and fast tool for exporting video to them. Based on the selected device and the source format, Flip Player picks the appropriate file container, codec, and encode settings. This makes Flip Player very fast and easy to use. (See [Supported Codecs, Formats, & Protocols](#) for a table of applications and file formats supported for export.)

To export a video to a specific device, follow these steps:

1. Load a media file into Flip Player.
2. Select *Export > Device* and select a device from the list (iPhone, iPad, iPod, etc.)



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**Note:** iPhone, iPad, iPod, Apple TV, and Mac are all H.264 format. iPhone (Ringtone) is AAC format. H.264 is a video codec and AAC is an audio codec, but they are not mutually exclusive. Many of the devices export using both H.264 and AAC.

---

3. Once you have made a selection, Flip Player creates a new media file that works with the selected device then presents a Save dialog box asking you for a filename and a location. Click Save and Flip Player displays a progress window that tracks progress and completion. When it's done, the newly exported file is ready for use with your device.

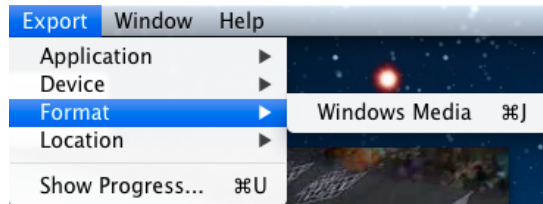
## Exporting to a Format STUDIO

You can also export a Windows Media file from Flip Player. Which media formats you can export from Flip Player depends on the upgrade you have licensed.

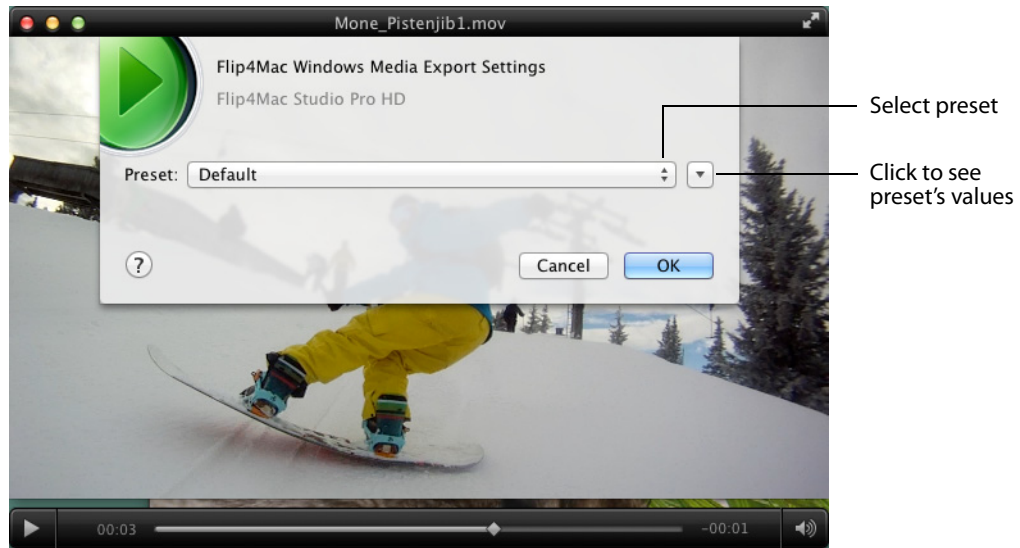
To export a Windows Media file, follow these steps:

1. Load a media file into Flip Player.

2. *Export > Format > Windows Media*, or press the command + J keys.



3. Select a preset from the list of presets, then click the down-arrow to edit/view the preset's values.

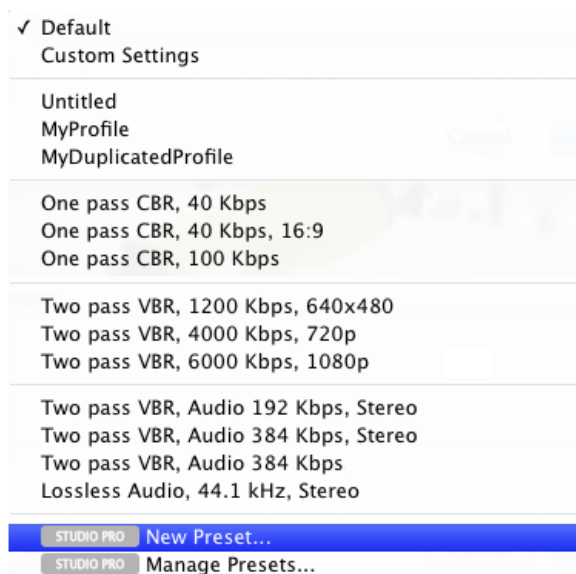


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**Note:** You can create and edit these presets if you have the *Studio Pro HD* license.

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To select a preset, click the Preset pull-down menu to display all the presets available (for your license level). You can also select *New Preset* to create a new preset (if you have a Studio Pro HD license).



## Export Settings

To edit the preset's values, click the down-arrow to display the Media Export Settings window which contains four tabs:

- **Video** Displays video encoder settings
- **Audio** Displays audio encoder settings
- **Metadata** Displays metadata values stored into the output file
- **Silverlight** Displays Silverlight settings

How you can export media in Flip4Mac depends on which F4M license you have:

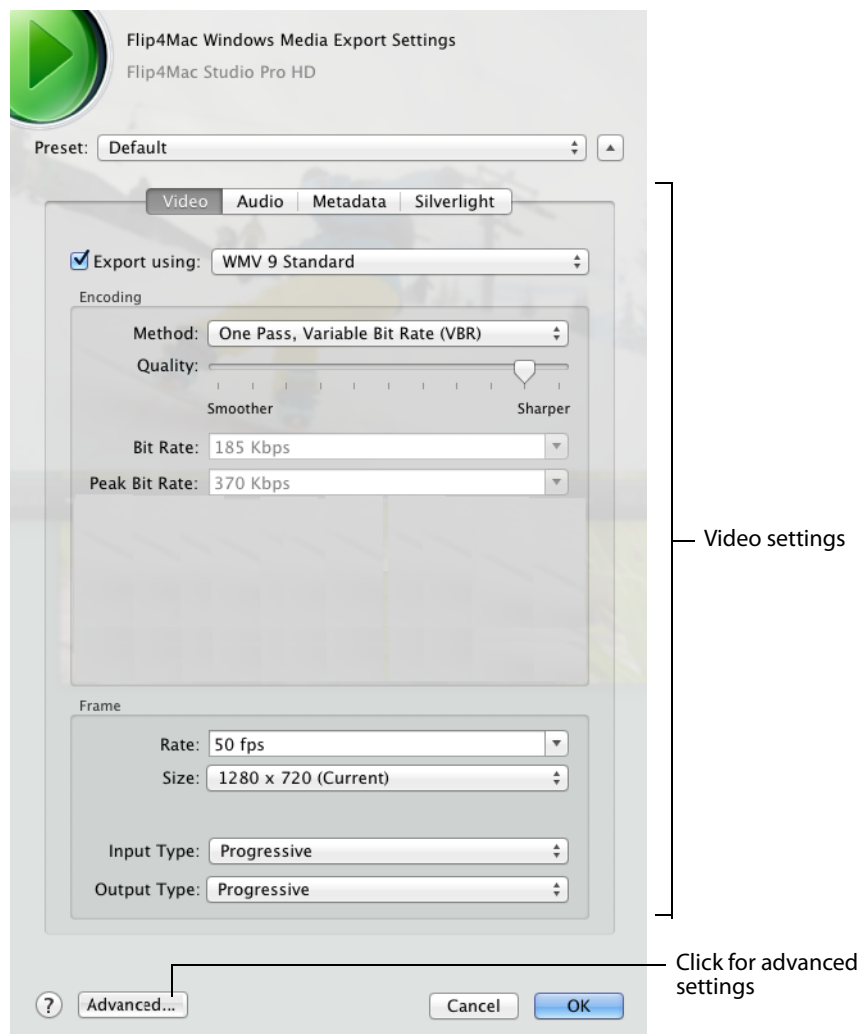
- **Player**—You can export complete WMV files to MOV files (or any other format), but the file is watermarked. You can also export MOV files to WMV files, but the exports are limited to 30 seconds (or half the source media duration) and the files are not watermarked.
- **Player Pro**—You can export WMV files to MOV files. You can export MOV files to WMV files, but the exports are limited to 30 seconds (or half the source media duration) – the files are not watermarked.
- **Studio**—You can export WMV files to MOV (and other format) files, and you can export MOV files to WMV files. You can select from a wide variety of preset encoder profile choices, which can not be customized. Export resolution is limited to 960x540 pixels.
- **Studio Pro HD**—When exporting MOV files to WMV format, you can change individual WMV encoder settings and save those changes in a new preset (note the Preset

drop-down list at the top of the Flip Player Export Settings dialog). You can also select New Preset from the popup menu (near the bottom of the drop-down list), to create a new, custom interlaced or progressive encoder profile with custom settings. See Creating Custom Encoder Presets later in this manual for more information. You can also export WMV files to MOV files.

## Video Encoder Settings

The Video settings tab enables you to specify how the video track is encoded when exporting.

**Note:** The video settings tab is disabled if your source media does not contain a video track.

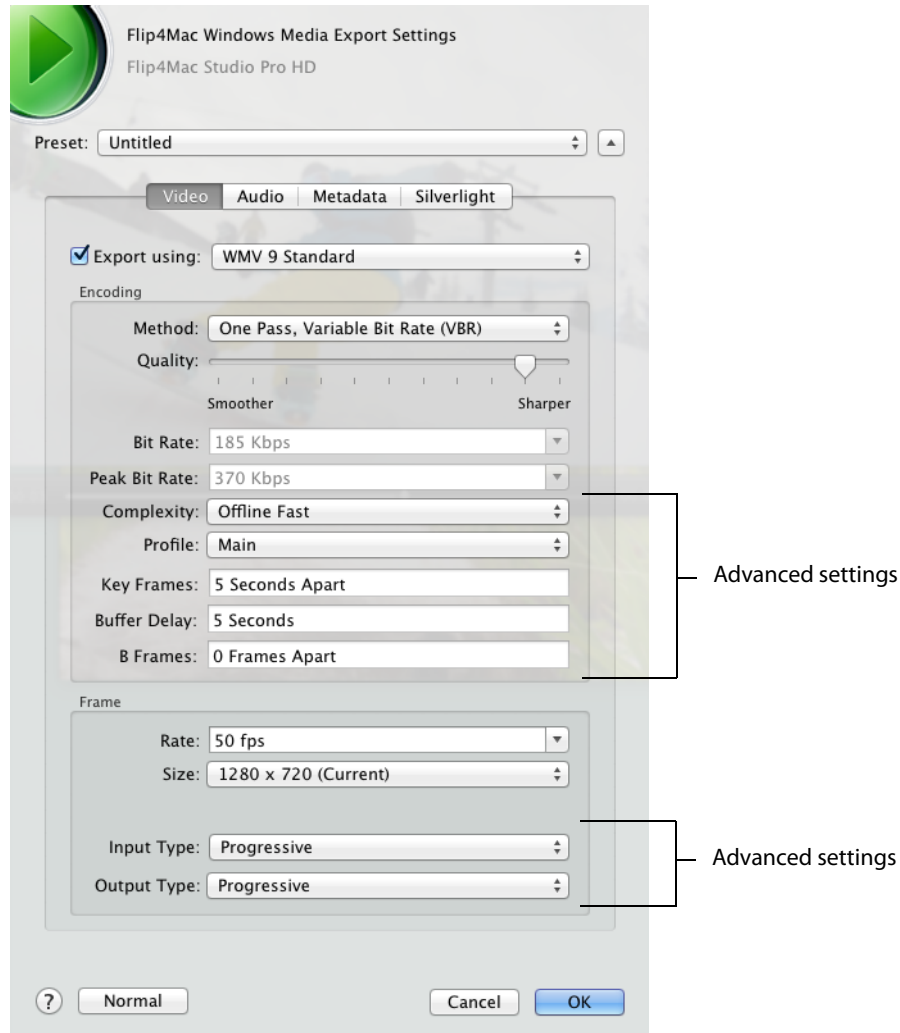


Use the controls on this dialog to change your basic video settings. For more options, you can click *Advanced* to display additional controls. (Settings displayed vary with the selected preset).

- **Export using** When checked, the video track is encoded using the selected video codec. If unchecked, the Windows Media file will not contain a video stream.
- **Method** For constant bit rate (CBR) encoding, enter the desired bit rate—the encoder dynamically adjusts quality to maintain that bit rate, by adjusting the quality of each frame or by dropping frames completely.
- **Quality** The quality setting emphasizes which method the encoder should use. For variable bit rate (VBR), set the desired quality to emphasize smoother or sharper output. Smoother quality produces better motion, but may reduce the quality of each frame. Sharper quality produces better images. During encoding, the bit rate varies (based on frame size, rate, and complexity). In two-pass VBR, you can specify the target bit rate, but in one-pass VBR you cannot edit the bit rate.
- **Bit Rate** Select data rate from the drop-down list.
- **Peak Bit Rate** Select the peak data rate from the drop-down list.
- **Frame Size and Rate** Determines the width, height and frame rate of the encoded video track.
- **Advanced** Click to display the Advanced panel to make special adjustments for encoding.

## Advanced Video Settings

When you click *Advanced*, additional settings are displayed:



- **Complexity** This setting controls the effort used to identify areas of similarity in consecutive frames. *Live* modes apply less effort and may sacrifice image quality for encoding speed. *Offline* modes apply more effort and take more time, but produce the best image quality.

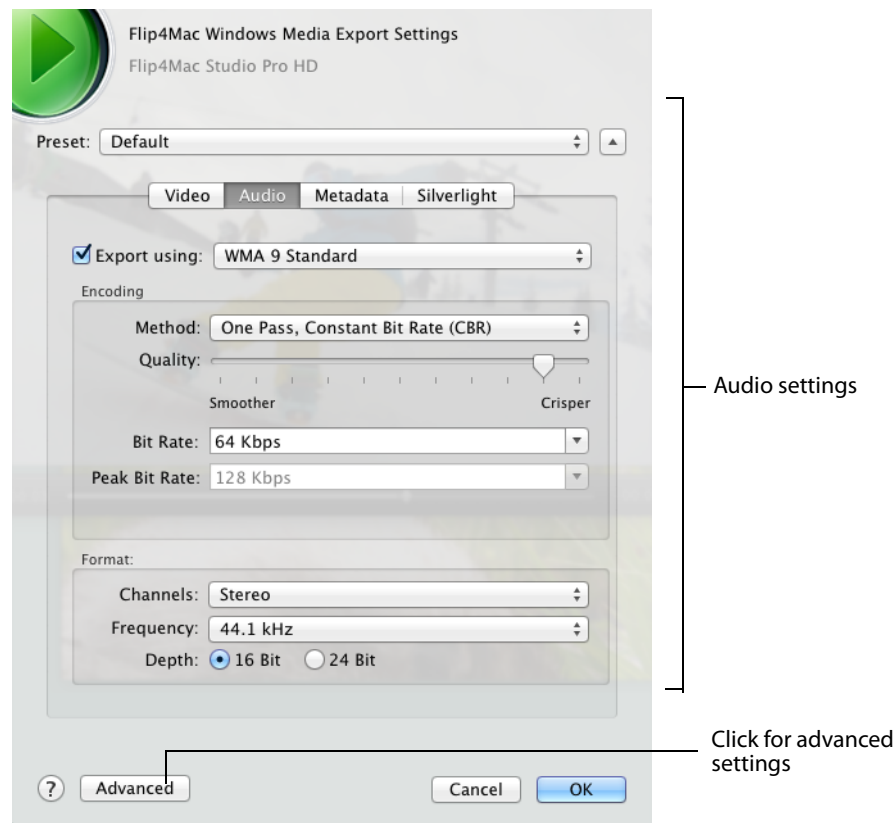


- **Profile** Specify *Simple* or *Main* (WMA 9 Standard), or *Advanced* (WMV 9 Advanced).
  - **Simple**—This profile targets low-rate Internet streaming and low-complexity applications (mobile communications, or playback of media in personal digital assistants).
  - **Main**—This profile targets high-rate Internet applications (streaming, movie delivery via IP, or TV/VOD over IP).
  - **Advanced**—This profile targets broadcast applications. It is the only profile available for WMV 9 Advanced.
- **Key frames** Select the maximum interval allowed between successive key (I) frames.
- **Buffer Delay** Select the duration of the delay buffer used for bit rate control. Longer delays produce better overall quality (at the expense of larger fluctuations in the bit rate).
- **B Frames** The Windows Media video codec employs intra (I), predictive (P) and bidirectional (B) coded frames. Select the number of B frames to insert between successive I or P frames.
- **Input Type/Output Type** Select the format of the source (input) video track and the desired format of the encoded (output) video stream. The encoder uses this information to optimize the conversion between interlaced and progressive formats.

## Audio Encoder Settings

Use the Audio settings tab to control how the audio track is encoded.

**Note:** The audio settings tab is disabled if your source media does not contain an audio track.



Use these controls to change your audio settings:

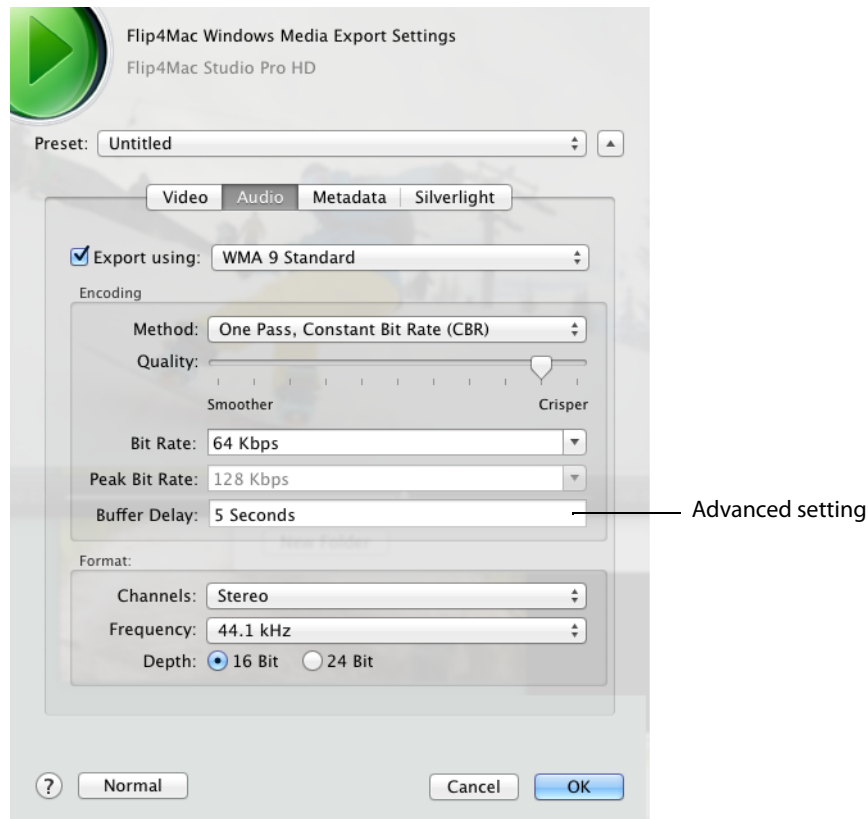
- **Export using** When checked, the audio track is encoded using the selected audio codec. If unchecked, the Windows Media file will not contain an audio track.
- **Method** For constant bit rate (CBR) encoding, you can select the audio format (sample rate and number of channels) and the desired bit rate. The encoder converts the track to that format and dynamically adjusts the quality to maintain the selected bit rate.  
For variable bit rate (VBR) encoding you select the audio format and desired quality. During encoding the bit rate will vary based on the complexity of the audio content.
- **Quality** The quality setting emphasizes which method the encoder should use. Smoother quality produces better sound flow, but potentially reduces the quality

of each sample. Crisper quality produces better sound, but potentially drops more samples.

- **Bit Rate** Select data rate from the drop-down list.
- **Peak Bit Rate** Select the peak data rate from the drop-down list.
- **Channels** Select the number of audio channels.
- **Frequency** Select the sampling frequency.
- **Depth** Select an audio sample bit depth from the radio buttons presented.
- **Advanced** Click to display the Advanced panel to make special adjustments for encoding.

## Advanced Audio Settings

When you click *Advanced*, additional settings are displayed:



- **Buffer Delay** Specifies the duration of the delay buffer used for bit rate control. Longer delays can produce better overall quality at the expense of larger fluctuations in the bit rate.

## Metadata Settings

The Metadata tab provides optional metadata information stored inside the exported file:



This information is stored in the Windows Media file and displayed by most Windows Media players.

## Silverlight Settings

When encoding media for use with Silverlight, click the *Silverlight* settings tab. Check *Embed video in Silverlight package* to embed video into Silverlight. Select a Silverlight

template. Templates specify a particular skin that will encase your video, which can be one of any number of stylized designs that include playback elements.



Due to the way QuickTime works, you cannot name the exported media the same as another file that exists. Check *Copy presentation to unique subfolder* to create a new folder for the presentation (in a new directory) named with a date and time stamp.

---

**Note:** If QuickTime prompts you to overwrite an existing file, click *No* and change the filename. Attempting to overwrite an existing file when exporting a Silverlight presentation will cause the export to fail at the end of the encoding process.

---

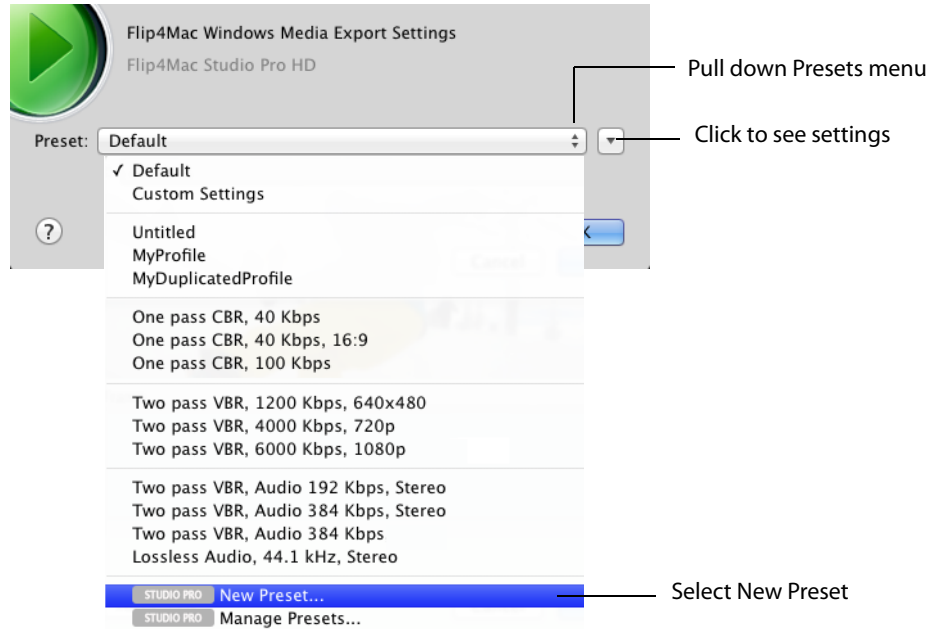
## Creating Custom Encoder Profiles STUDIO PRO HD

Flip Player Studio provides a number of preset audio and video encoder profiles. These presets are designed to meet a wide variety of media distribution needs, including Web streaming, Web download, and desktop presentation. When you upgrade to Flip Player

Studio Pro HD, you can create your own encoder profiles (a specific set of encoder settings).

To create a new profile, follow these steps:

1. Select *Export > Format > Windows Media*, pull down the Presets menu, then go to the bottom of the drop-down list and select *New Preset*.



2. When the dialog window displays, enter a name for the new profile and click *Done*. Your new custom profile displays at the top of the Presets list.
3. Click the expand settings button to edit/view individual video and audio encoder settings as described in the preceding sections. Once edited, click OK to save your changes to the new profile.

# User Interface

## Introduction

These topics describe the menus and menu items in Flip Player.

## Topics

- [Flip Player Menu](#)
- [File Menu](#)
- [Edit Menu](#)
- [Control Menu](#)
- [Audio Menu](#)
- [View Menu](#)
- [Export Menu](#)
- [Window Menu](#)
- [Help Menu](#)

## Flip Player Menu

**About Flip Player** Displays the version of Flip Player you are running.

**Check for Updates** Provides a short-cut to *Preferences > Check Now*.

**Preferences** Opens the Preferences window. If the Preferences window is already open, it becomes the active window.

**Services** Presents the Macintosh Services available.

**Hide Flip Player** Hides the Flip Player application window.

**Hide Others** Hides all application windows other than Flip Player.

**Show All** Shows all application windows.

**Quit Flip Player** Closes all files and exits. If a file has been modified but not saved, you are notified and you must save the file (or discard changes) before exiting Flip Player.

## File Menu

**Open File** Displays the Open dialog window for opening a media file.

**Open Stream** Displays the Open Stream dialog window for opening a stream from a location determined by the URL provided.

**Open Recent** Displays the most recently accessed media files. Every time a file is opened or saved it is entered into the this list.

**Close** Closes the currently active media file window. If the file has not been saved, you are asked to save the document before closing.

### PRO

**Save As** Displays the *Save As...* dialog window enabling you to save the file using a new file name.

### PRO

**Revert** Enables you to discard all changes you have made to a file and revert it to its last saved state.

## Edit Menu

**Undo** Reverses your last change in Flip Player. Flip Player offers an unlimited number of undo actions (within computer memory limitations). Undo information is stored on a per-window basis. Also, if you close window then reopen it, your undo information is lost. Undo does not undo edit actions.

**Redo** Reverses your last undo action. Flip Player offers an unlimited number of redo actions (within computer memory limitations). Redo information is stored on a per-window basis. Also, if you close window then reopen it, your redo information is lost. Redo does not re-do edit actions.

**Cut** Copies (and removes) the selected media and stores it on the clipboard allowing you to paste it into a selected target.

**Copy** Copies (but does not remove) the selected media and stores it on the clipboard allowing you to paste it into a selected target.

**Paste** Duplicates the content in the clipboard into the currently selected location. Media is placed in the clipboard using Cut and Copy.

**Paste and Match Style** Duplicates the content in the clipboard into the currently selected location, maintaining the style resident in the target location.

**Delete** Deletes the currently selected media.

**Select All** Selects all items in the currently active window.

**Select None** Deselects all items in the currently active window.

### PRO

**Crop** Displays the Crop window, enabling you to crop the selected media.

### PRO

**Rotate** Displays the Rotate window, enabling you to rotate the selected media.



**PRO**

**Trim** Displays the Trim window, enabling you to trim the selected media.

**PRO**

**Scale** Displays the Scale window, enabling you to scale the selected media.

**Special Characters** Displays the Special Characters window, enabling you to create a list of favorite special characters. This is useful for entering characters into text fields that are difficult or impossible to type using the keyboard.

## Control Menu

**Play/Pause** Plays the selected media file. When playing, the word *Pause* is displayed and when selected causes the media to stop playing. When paused, the word *Play* is displayed.

**Fast Forward** Causes the selected media to enter the Fast Forward mode.

**Rewind** Causes the selected media to enter the rewind mode.

**Speed** Enables you to select the speed at which the selected media is played.

- **Increase** Increases the speed of the selected media
- **Decrease** Decreases the speed of the selected media
- **1x - 64x** Enables you to select one of seven pre-set speeds of the selected media

---

**Note:** The unlicensed version of Flip Player allows you to pick 1x, 2x, 4x, 8x, 16x, 32x, and 64x playback speeds, Player Pro users can use the JKL keyboard controls to achieve 1x, 2x, 3x, 4x, 5x, 6x, ..., up to 64x speeds.

---

**PRO**

**Slow Motion** Places the currently playing media into slow motion mode. Slow motion can also be started while paused.

**Step Forward** Moves selected media forward one frame.

**Step Backward** Moves selected media backward one frame.

**Jump Forward** Moves selected media forward ten seconds.

**Jump Backward** Moves selected media backward ten seconds.

**Skip** Enables you to jump forward 30 seconds into the video.

**Instant Replay** Enables you to jump backward 8 seconds in the video.

**Next Chapter** Moves media to the next chapter.

**Previous Chapter** Moves media to the previous chapter.

**Chapters** Displays list of chapters. Moves media to selected chapter.

**Jump To End** Moves current location in media to first frame. If the media is playing, it will continue playing. If it is paused, it will continue to be paused.

**Jump To Start** Moves current location in media to last frame. If the media is playing, it will continue playing. If it is paused, it will continue to be paused.

**Loop** When checked (selected), media loops back to start when end is reached.

## Audio Menu

**Increase Volume** Turns the media volume up.

**Decrease Volume** Turns the media volume down.

**Mute** Mutes the media audio.

## View Menu

**Enter Full Screen** Expands the selected media to full screen. Press Escape to return to normal mode. This differs from the *Fit To Screen* option in that it hides the menu bar, and the desktop.

**Dim Lights** When checked (selected) dims the brightness of all windows other than the currently selected Flip Player window.

**Half Size** Changes the size of the selected media to half of its actual size.

**Actual Size** Changes the size of the selected media to its actual size.

**Double Size** Changes the size of the selected media to twice its actual size.

**Fit to Screen** Changes the size of the selected media to the max size of the screen.

**Aperture** Enables you to specify how the outside edges of the video are cropped during playback.

## Export Menu

**Application** Exports selected media to other applications (Wirecast, iMovie, etc.).

**Device** Exports selected media to a device (iPhone, iPad, PC, etc.).

**Format** Exports selected media into a format (Windows Media, etc.).

**Show Progress** Displays the *Progress* window.

## Window Menu

**Minimize** Minimizes the front-most window.

**Zoom** Maximizes the front-most window (zooms to the full size of the screen).

**Bring All to Front** Brings all Flip Player windows to the front (above any other open application windows).

**Available Windows** All open windows are listed at the bottom of this menu. Selecting a listed window makes it the active window.

## Help Menu

**Search** Enables you to search the help system for any topic or key word.

**Flip Player Help** Opens the online help version of the Flip Player User Guide.

**Flip Player User Guide** Opens the PDF version of the Flip Player User Guide.

**Flip Player Forum** Opens the Telestream Flip Player Community Forum Web page.

**Flip4Mac Help** Opens the online help version of the Flip4Mac User Guide.

**Flip4Mac User Guide** Opens the PDF version of the Flip4Mac User Guide.

**Flip4Mac FAQ** Opens the Flip4Mac FAQ Web page.

**Flip4Mac Forum** Opens the Telestream Flip4Mac Community Forum Web page.

**Gather Support Information** Gathers support information and enables you to save a file with this information to your Mac desktop. A unique filename is generated. Sending this file to Telestream enables the support team to diagnose any problems you have reported.



# Reference

## Introduction

This section provides important reference information including supported codecs and formats, and network protocols.

## Topics

- [Supported Codecs, Formats, & Protocols](#)
- [Network Stream Protocols](#)

## Supported Codecs, Formats, & Protocols








The following audio and video codecs and general file formats can be processed in Flip Player and Flip4Mac.

---

**Note:** Flip Player can play all codecs, formats, and protocols provided by QuickTime. Windows Media Audio Voice, Windows Media Video Screen (and variants), and Windows Media Video Image (and variants) formats are not yet supported in Flip4Mac or Flip Player.

---













**Table 4.** Supported Audio Codecs

Audio Codec	Play/ Import	Export
Windows Media Audio 9 Professional		
Windows Media Audio 9 Lossless		
Windows Media Audio 9 Standard		
Windows Media Audio 7/8		






**Table 4.** Supported Audio Codecs

Audio Codec	Play/ Import	Export
Microsoft G.726		
Microsoft IMA ADPCM		
Microsoft ADPCM		

**Table 5.** Supported Video Codecs

Video Codec	Play/ Import	Export
Windows Media Video 9 Advanced (WMVA)—Broadcast Profile		
Windows VC1		
Windows Media Video 9 Standard (WMV3)		
Windows Media Video 8 (WMV2)		
Windows Media Video 7 (WMV1)		
ISO MPEG-4 V1.1 (M4S2)		
ISO MPEG-4 V1.0 (MP4S)		
Microsoft MPEG-4 V3 (MP43)		
Microsoft MPEG-4 V2 (MP42)		
Microsoft Motion JPEG (MJPG)		

**Table 6.** Supported File Formats

File Format	Play/ Import	Export
Advanced Systems Format (ASF)		
Advanced Stream Redirector (ASX) ( <a href="#">ASX Support PDF</a> )		
Audio/Video Interleaved (AVI)—WMV media wrapped in AVI file format.		
WVX and WAX files		

**Note:** <sup>1</sup> ASF files are the same as .wmv and .wma files, and also .wm amd .wmp files.

**Table 7.** Supported Export to Applications and Related File Formats

Application	Versions	Video	Audio	Container	Extension
iMovie	9.0.4 and later.	Apple Intermediate Codec (AIC)	AAC-LC 128 Kbps, 16-bit, 44.1kHz, Stereo	QuickTime	MOV
Final Cut Pro	10.0.3 and later.	ProRes 422 HQ	AAC-LC 128 Kbps, 16-bit, 44.1kHz, Stereo	QuickTime	MOV
iPhoto	9.2.1 and later.	H.264	AAC-LC 128 Kbps, 16-bit, 44.1kHz, Stereo	QuickTime	MOV
iPhone Ringtone	n/a	n/a	AAC-LC 128 Kbps	MP4	M4R
Mail	5.2 and later	H.264	AAC-LC 128 Kbps, 16-bit, 44.1kHz, Stereo	QuickTime	MOV
Episode	6.2.2 and later.	AIC	PCM	QuickTime	MOV
ScreenFlow	3.0.3 and later.	H.264 (GOP Size 6)	AAC-LC 128 Kbps, 16-bit, 44.1kHz, Stereo	QuickTime	MOV
Wirecast	4.1.3 and later.	H.264 (GOP Size 6)	AAC-LC 128 Kbps, 16-bit, 44.1kHz, Stereo	QuickTime	MOV

## Network Stream Protocols

You can use MMS-RTSP, MMS-HTTP, HTTP, with Flip Player and/or Flip4Mac.

**Table 8.** Supported Stream Protocols

Stream Type	Name	Protocols
MMS	Microsoft Media Server	MMS, HTTP, RTSP, and TCP
HLS	HTTP Live Streaming	HTTP and TCP



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