MAUI X-STREAM, INC.

Video Streaming Technologies

VX30 Flash Encoder for OS X

VX30 FLASH ENCODER FOR OS X

Users Manual

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Introduction

Welcome to the VX30 Flash Encoder for OS X! The VX30 Flash Encoder is the easiest to use and most versatile Flash Video Encoder on the market today. The VX30 Flash Encoder has over a hundred customizable options neatly wrapped in a simple step by step graphical user interface. Like its OS X host the VX30 Flash Encoder is highly intuitive and easy to use. Novices will be delighted in the easy operation of the tool while experts will revel in the depth and time saving macros that it offers. Please take the time to skim through this manual; it is intended to be both a step by step guide and a reference tool.

What is an encoder?

A video encoder (in this case) is a software tool that allows you to convert digital video signal from one format to another. In this case you can convert QuickTime movies into Flash video files.

What is flash video?

Flash video is the video format created by Adobe Corporation that allows video to be played back through their ubiquitous web browser plug-in, *Flash Player*. Flash Player is a standard for creating video and animation within a web page.

Why use VX30 Flash Encoder?

#1 The Tool. The VX30 Flash Video Encoder has dozens of options, while still being intuitive and easy to use.

#2 Compression Techniques. VX30 uses MPEG4 (via the open source FFMPEG library) to create the flash video files. MPEG 4 is the new standard for high quality video that will ultimately replace the current MPEG 2 standard that is used for applications such as DVDs and digital cable television.

#3 Bandwidth Detection. VX30 uses our patented bandwidth detection technique to identify the type of network the user is on and stream to them the appropriate file size. The number of bandwidth formats you wish to support is easily set up with a couple clicks of the mouse during the encoding process.

#4 Full Screen Viewing option. Out of the box VX30 comes with a full-screen viewing option that will allow the users to toggle between in-line mode and full screen viewing. Setting up this option is done with a single click of the mouse during the encoding process.

#5 Encode straight from camera. VX30 has the option to encode video via a USB/Firewire camera or the built-in camera that comes with the new iMac, MacBook or MacBook pro.

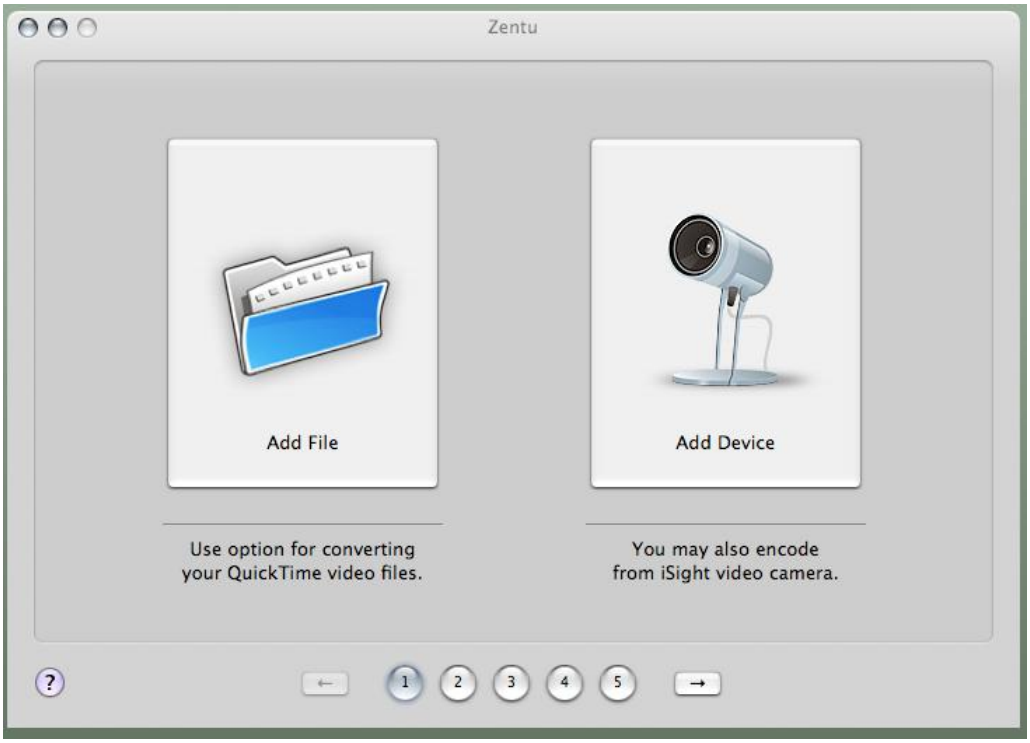
#6 Universal Binary. VX30 will work equally well on either your legacy PPC system or your brand new Intel machine.

#7 Built-in FTP client. You can have your video set to be uploaded while it is behind encoded. Saving yet another step in the video creation process.

Encoding Video

From File

The VX30 can encode a variety of different video formats. These formats include mpg, mov, avi, mp4, wmv, and rm. To encode from a file select "Add File" from the first window. Next select the video you would like to encode. Now on the second window you have the choice to add another file or add a device. You also have the ability to edit your video by selecting the Fine Tuning Section.



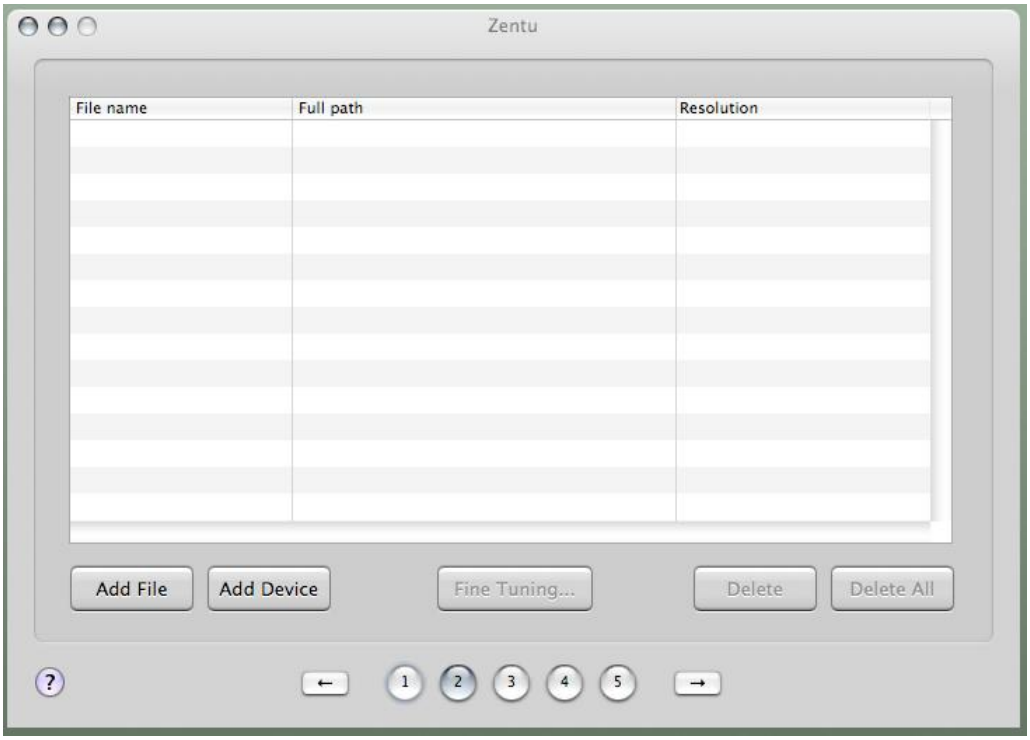
From Camera

Connect your camera and select “Add Device"

Now you should see a preview window. If your camera allows you will have the ability to select the source aperture, this should be set as close to the final frame size as possible. Once you are happy with the video shown in the preview window press “Start Recording”. When you are done press “Stop Recording”. You are now at the “Fine Tuning Section”.

Batch Processing Window

The Batch Processing Window is the second step in the encoder process. Here you can add videos for batch encoding.



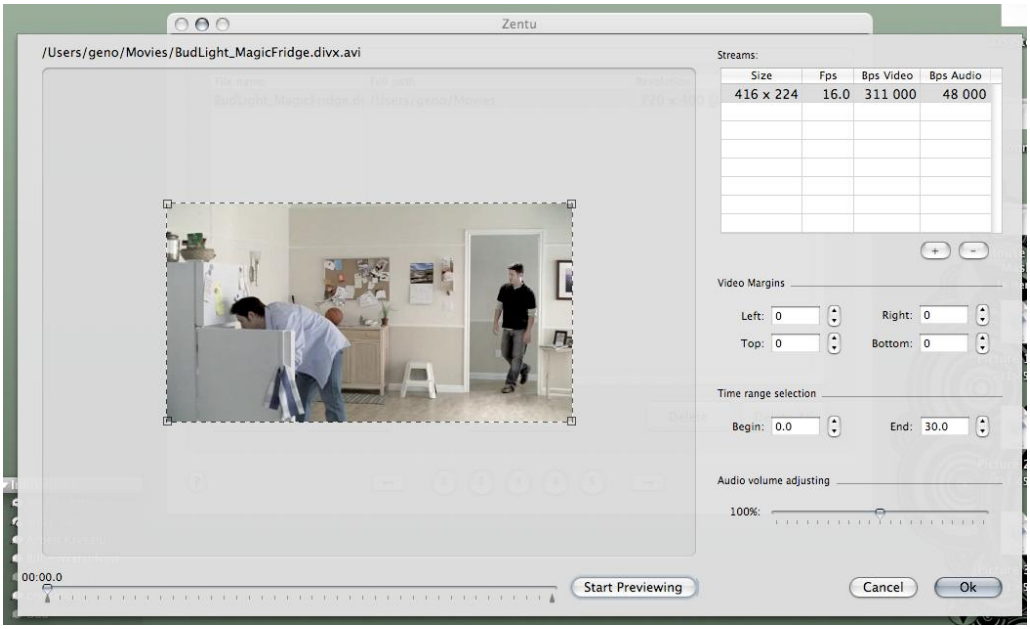
Fine Tuning Section

Resizing

If you would like to change the size of the output video you can do so here. To change the size of a particular stream highlight the stream and use the mouse to resize the video window in the preview. This will only affect the stream highlighted.

Margins

"Video margins" allow you to crop your video before output. This is helpful if there is a black boarder or side artifacts in your video that you want to get rid of. The video margins are based on pixels. If a 320x240 video has interference on the very top of it then a video margin of 5 at the Top would take away the top 5 pixels.



Time Range Selection

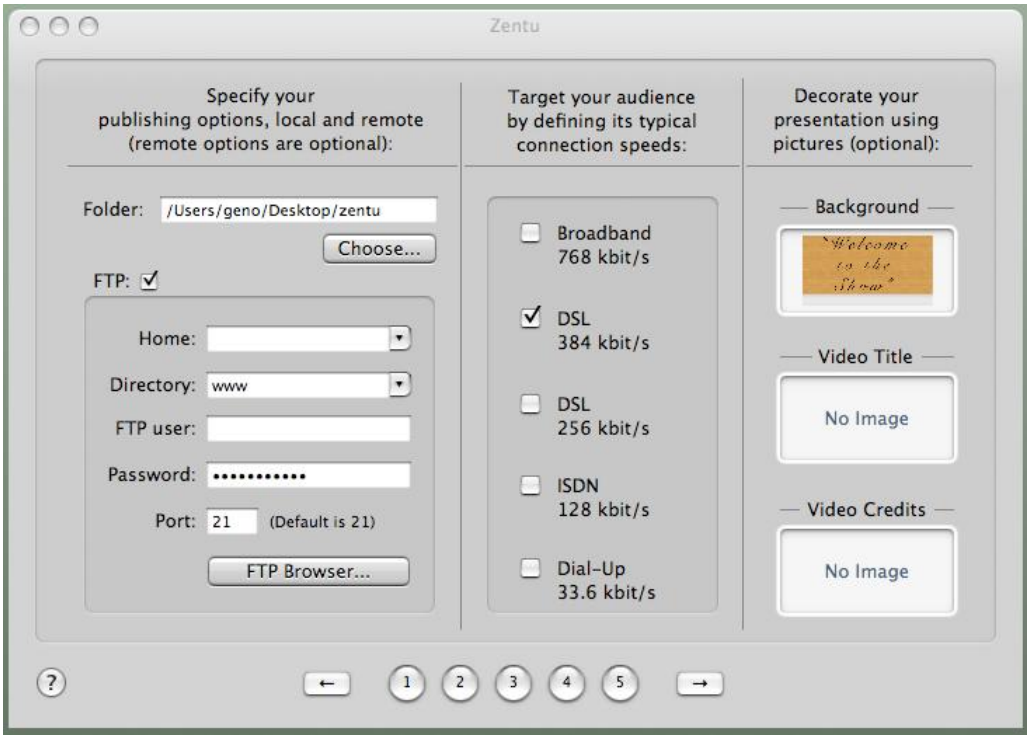
"Time Range Selection" is your chance to edit the length of your video. This would be useful if you wanted to only encode a preview of the total video or a certain segment of the original video.

Audio Volume Adjusting

"Audio Volume Adjusting" is where you can increase or decrease the audio level of the output video.

Encoding Options

Choose what folder you want the Vx30 files to be placed in after encoding. We recommend that you create separate folders for each batch of videos that you create. While not completely necessary we have found that this is the best way to organize your video clips.



Destination Location

Remote FTP

You can also choose to have your Vx30 files uploaded to your website by using the built in FTP client. To set up your FTP client select the button to the left of the window. You can now enter your ftp information in the fields provided

Bandwidth Detection

Choose your bandwidth according to what your customers have available to them. Are your customers on cable, dsl, or are they on a dial-up connection? Our recommendation is to choose three- DSL 384 kbit/s, ISDN 128 kbit/s, and Dial-Up 33.6 kbit/s.

Using Images

Adding an Image to your video is as easy as selecting the corresponding button. A brief description of these buttons is below.

Video Title - The value of this setting is an image file that will appear before the video starts to play. This can be useful for corporate branding or adding useful static information to the beginning of your video clip.

Video Credits - The value of this setting is an image file that will appear at the end of the video clip.

Background Image – The value of this setting is an image file that will appear in the background of the video clip. This can be handy for adding continuity to your web page.

Designing the Player

Alpha Values

This will set the transparency level of the video with 0 being fully transparent and 255 being opaque.

Background Color

By default the background color is white. However you can adjust this to another color by clicking on the value box. This will load a color chart in a new window. Choose your desired setting and press OK.

Control Panel

You can turn on/off the control panel with this setting. The control panel is the bar that contains the play/pause, stop and mute buttons.

Full Screen Option

You can turn on/off the Full Screen option.

Playback Characteristics

Loop Playback

If this is enabled the video will restart playing when it reaches the end. If left disabled the video will only play once.

Mute Audio

This determines whether to turn the sound on or off.

Rewind When Done Playing

This value is used in conjunction with the title and credits images that you specified in the previous section. When enabled the video end with the video title image. If left disabled it will load the video credits image when done playing.

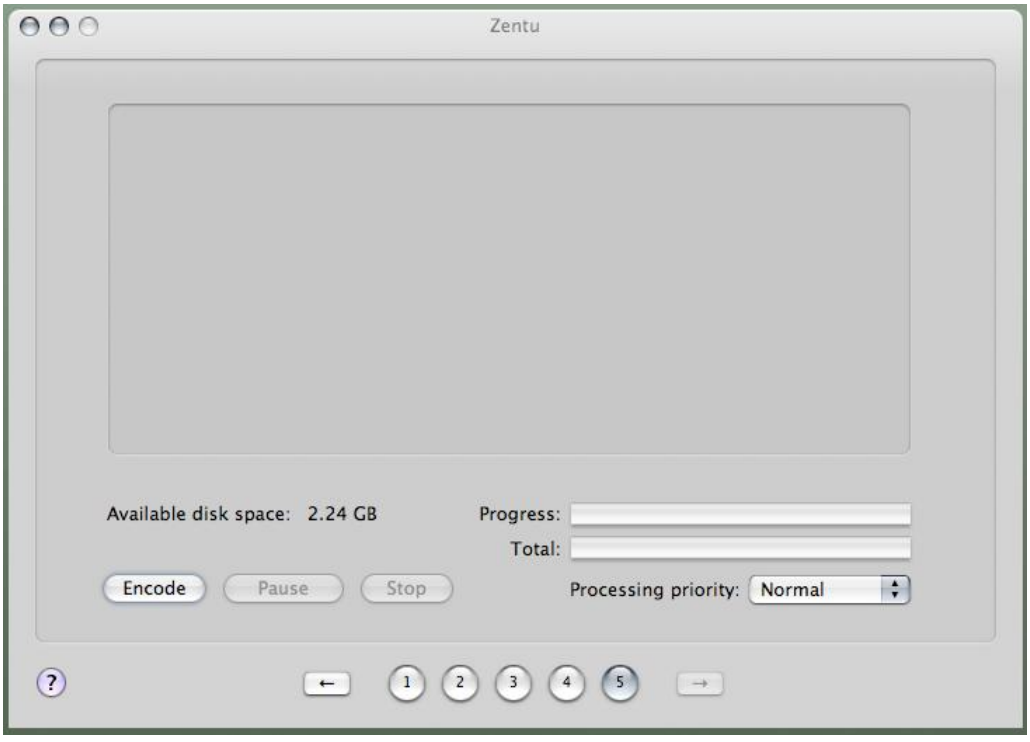
Auto Playback

This determines when the video will start playing. If left enabled the video will start playing as soon as it has buffered. If you disable auto playback the video will start playing when the play button has been pressed. The final option is to set it to Rollover, which sets the video to start when the mouse rolls over the video.

Status Messages

This value controls what color the status messages will be. We recommend that you use a color that will be visible against the background color you chose for the applet's background color.

Encoding



Encode – This will start the encoding process

Pause – This will pause the encoding process

Stop – This will stop the encoding process

Output

To see what kind of files the encoder creates lets go to one of your "destination" folders. The Vx30 Encoder creates several types of files a brief description of each is given below.

Types of files

FLV - This file contains the parameters of your flash video. You can manually change these parameters here. These parameters are similar to those in the java video.

HTML - This is an auto-generated web page. You can preview your Vx30 video by opening this file with your web browser. You can link to this file from your web page(s) or you can copy and paste the object code contained within into your web page.

XML - This file contains the parameters of your flash video. You can manually change these parameters here.

SWF - These are the flash player and the buttons that are responsible for the playback of the FLV files.

JavaScript – This is the file responsible for enlarging the Vx30 video.

Images – These are the images you chose for Video Title, Video Credits, and Background Image.

How to put your video in a web page

You can embed your Flash video in your pre-existing web page. This is done by doing two things:

#1 Place the JavaScript and Object Code into your web page.

#2 Configure your .xml file to know the location of your .flv files.

You can find the JavaScript and object code within the HTML file created by the encoder. Simply open the HTML file with your favorite text editor (i.e. notepad, Dreamweaver, etc...) and locate the line that contains `<script`. Than scroll down the page until you find the closing </*object*> tag. Then copy all the lines contained within including the object tags.

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">
<head>
<meta http-equiv="Content-Type" content="text/html;
charset=%%CharSet%%">
<title>BudLight_MagicFridge.divx</title>
</head>
<body>
<script language="JavaScript" type="text/javascript"
src="Vx30Helper.js" ></script>

<object id="FlashPlayer" width="426" height="266"
classid="clsid:d27cdb6e-ae6d-11cf-96b8-444553540000"
      codebase="http://fpdownload.macromedia.com/pub/shockwave/
cabs/flash/swflash.cab#version=8,0,0,0">
  <param name="allowScriptAccess" value="always">
  <param name="swLiveConnect"     value="true">
  <param name="movie"             value="FlashPlayer.swf">
  <param name="quality"           value="high">
  <param name="bgcolor"           value="#ffffff">
  <param name="FlashVars"
value="metaUrl=BudLight_MagicFridge%2Edivx%2Exml&urlBase=Docume
ntBase">
  <embed name="FlashPlayer" src="FlashPlayer.swf" width="426"
height="266"
flashvars="metaUrl=BudLight_MagicFridge%2Edivx%2Exml&urlBase=Do
cumentBase"      quality="high" bgcolor="#FFFFFF"
swliveconnect="true" allowscriptaccess="always"
```

```
type="application/x-shockwave-flash"
pluginspage="http://www.macromedia.com/go/getflashplayer">
</object>
</body>
</html>
```