Overview

The VENUS Video Recorder library is a custom library that allows video recording/capture from an attached camera device (e.g., Webcam) or desktop recording.

Download Materials

VENUS Video Recorder Library

Installation

The installer will add the library and associated files to the HAMILTON\Library\VideoRecorder folder. An XVid video codec will also be installed, this is to reduce the overall file size of the captured videos.

Virtual Dub will automatically be included in the HAMILTON\Library|VideoRecorder\VDub folder and needs to be configured to desired settings

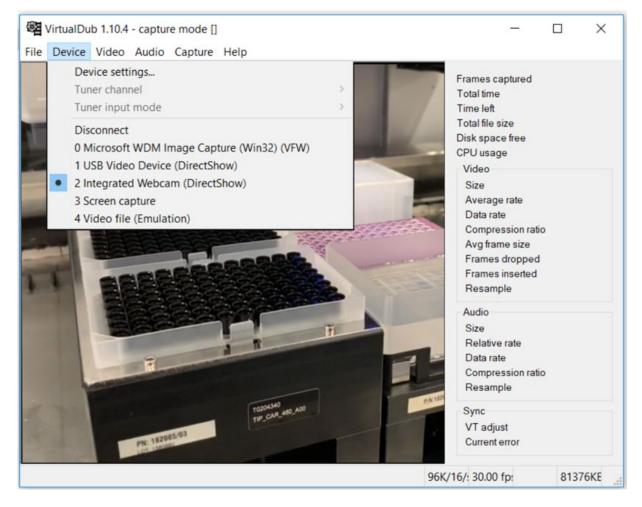
1. Open Veedub64.exe from the above folder

2. Click File --> Capture Avi to go to capture settings

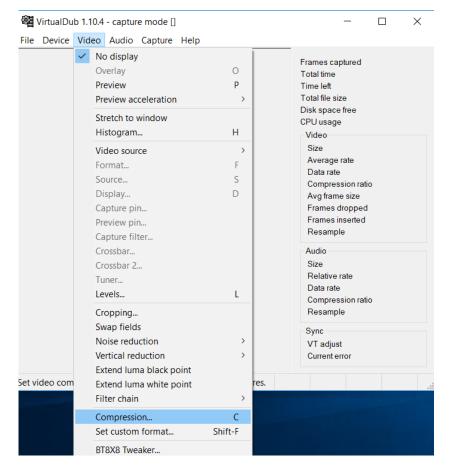
Ò.	🎕 VirtualDub 1.10.4 (build 35491/release-AMD64) by Avery Lee 🦳 🗆 🗙										
File	Edit View	Go Vio	leo ,	Audio	Options	Tools	Help				
	Open video file		(CTRL+O	1						
	Reopen video	pen video file		F2							
	Append AVI segment Preview input										
				SPACE							
	Preview filtered			ENTER							
	Preview output from start		tart		F5						
	Run video analysis pass										
	Save as AVI				F7						
	Save old format AVI Save segmented AVI Close video file Export Queue batch operation			SF	HIFT+F7						
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	File Information										
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	Quit										

HAMILT®N[®] Quick Guide – VENUS Video Recorder Library

3. Click Device and make a note of the desired video input name e.g., "USB Video Device" (this will be needed in the initialization step of the library later). If you select a device it will display in the window, so this can be used to check the desired device name.



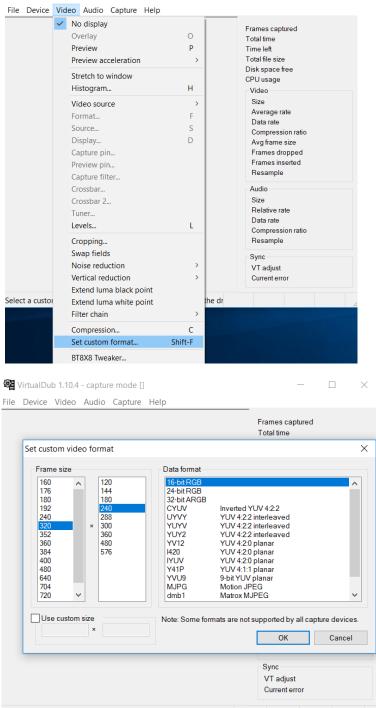
4. Click Video --> Compression, select XVid MPEG-4 Codec (this will create compressed video files that take less disk space). Click Configure --> Other Options... and uncheck "Display encoding status" this will remove an annoying pop up that would otherwise run each time the library is used. Click OK on all open windows to save.



📴 VirtualDub 1.10.4 - capture mode []	— C				
File Device Video Audio Capture Help					
Select video compression	? ×	Xvid Configuration	\times	Xvid Configuration	×
(Uncompressed RGB/YCbCr) Intel IYUV codec Intel IYUV codec Microsoft RLE Microsoft Video 1 Xvid MPEG-4 Codec Show all codecs, even if they may not work Quality 10 Use target data rate of kilobytes/sec Force keyframes every frames		Main Settings Profile @ Level: Xvid Home Encoding type: Single pass Target quantizer: 4.00 1 (maximum quality) Zones Frame # Weight/Q Modifiers 0 W 1.00	v more v more calc (smallest file) 31	Encoder Decoder Common FourCC used: Print debug info on each frame Display encoding status	XVID v
	Relative rate Data rate Compression ratio Resample Sync VT adjust Current error	Add Remove More Quality preset General purpose Load Defaults Other Options	Zone Options v more OK	E	OK Cancel

5. Click Video --> Set custom format, then you can select your desired resolution etc., the video output will be visible in the main window, giving an indication of what will be recorded. Click OK on open windows to save. Х

VirtualDub 1.10.4 - capture mode []



6. You can now close VirtualDub and the capture settings will be saved.

You will find a test method in the HAMILTON\Methods\VideoRecorder folder

Dependencies

Hamilton VENUS Software Virtual Dub XVid Codec

Library Functions

The VENUS Video Recorder library is a submethod library that contains Initialize, Start and Stop record steps.

- 👷 VideoRecorder
- VIDEORECORDER::Initialise
- VIDEORECORDER::StartRecord
- VIDEORECORDER::StopRecord

The initialize requires the name (as a string) of the desired capture device (see above) and a location folder to store the output videos.

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	REC	Description: No descriptio	on available.		^
Sub	1	arameters:			
		Name	Description	Value "USB Video Device"	
2	i_strInput	putFileFolder [i	Name of the input device to record fro Location to save output file	"C:\\Program Files (x86)\\HAMILTON\\Methods"	
					<u> </u>

The start step will record using the capture device until told to stop. It's recommended to put a StopRecord step in the On Abort tab for this reason.

Additional Information

Virtual dub and supporting help can be found here Virtual Dub

XVid codec can be found here <u>XVid Codec</u> (other codecs can be used if there is a preferred one, settings just need to be changed in the VDub software)

VLC Media Player may be necessary to view created videos VLC Media Player