VTimer 1.0 user manual

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1. Activation and first start

Before you can start using VTimer you should purchase a product key.

First time you start the application you will be prompted to activate it.

product_ke product_na	y: "" me: "VTi	mer"		
product_ve	rsion_ma	ajor: 1 nor: 0		
machine_id	: "00:1E	C2:18:5E	E2"	
Product ke	v:			
Product ke	y:			
Product ke	y: code:			

There are 2 ways to activate the product:

- over the Internet (you will need only the product key)
- manually (you will need to send email to the support team to obtain activation code)

1.1 Activation via Internet

Simply enter the product key:

product_name: "\	VTimer"
product_version_ product_version	_major: 1 minor: 0
machine_id: "00:	1E:C2:18:5E:E2"
Product key:	dama licanca
Product key:	demo-license
Product key: Activation code:	demo-license
Product key: Activation code:	demo-license

And press activate:

product_key.		
product_name: '	"VTimer"	
product_version	_minor: 0	
machine_id: "00	:1E:C2:18:5E:E2"	
Activation reque	ested	
Product key: der	mo-license	
Activated!		
Product key:	demo-license	
Product key:	demo-license	
Product key: Activation code	demo-license	
Product key: Activation code	demo-license	

If everything went OK, you should see the "Activated!" message, and "Activate" button will become inactive. You can close the activation info window and start using VTimer.

If you don't see this message please proceed with manual registration.

1.2 Manual activation

Press "Copy Info" button in the activation info window. This will copy the required information to the clipboard. Then send an email to support@acontests.com, with activation info in the message body (press Ctrl+V on Windows, or #+V on OS X to paste it there). We will reply to you with your activation code.

Enter both product key and activation code:

product_key: ""	
product_name: "\ product_version	Timer" major: 1
product_version_	minor: 0
machine_id: "00:1	LE:C2:18:5E:E2"
Product key:	demo-license
Product key: Activation code:	demo-license 1d2a3b5adeb115e8ccba45d3b508851a2a
Product key: Activation code:	demo-license 1d2a3b5adeb115e8ccba45d3b508851a2a

And press "Activate":

product version	major: 1 minor: 0	0
machine_id: "00:1	.E:C2:18:5E:E2"	r
Activation reques Product key: dem Activation code: c6569c1d2a3b5a Activated!	ted o-license deb115e8ccba45d3b508851a2a	4
Product key:	demo-license	
Product key: Activation code:	demo-license 1d2a3b5adeb115e8ccba45d3b50885	51a2a

If everything went OK, you should see the "Activated!" message, and "Activate" button will become inactive. You can close the activation info window and start using VTimer.

In case of any problems please contact support@acontests.com

1.3 First start

Whether on not activation was successful closing the activation info window will bring you to VTimer's main window:



If you will ever need to bring activation info window back select "About \rightarrow Show license info" from application menu.

2. Using VTimer

We strive to make VTimer as handy as possible. So we will be glad to hear any feedback at support@acontests.com.

2.1 Common operations

2.1.1 Open video

To open the video file press the "Open" button (Ctrl+O on Windows, \Re +O on OS X).



2.1.2 Select seek step

Do not forget to select appropriate seek step for your video using "Seek step" menu. Usually you want to select seek step matching the frame rate of video.

Sometimes, however, it is necessary to have sub-frame timing precision. For example if exact landing moment is between frames. For this purpose you can select appropriate

seek step from the menu. It will allow you, for example, to move 20ms forward in 25 FPS video (that wouldn't change the frame, but will improve time accuracy).

2.1.3 Navigate through video

You can navigate through the video with arrow keys, or use GUI controls:

Video controls
Seek slider

To play/pause video press Space key.

2.2 Measure time

VTimer 1.0 is customized for measuring the flight time for the Trampoline competitions. It allows to measure sequence of flight times and calculates sums to each skill automatically.

Because of such customization we advice you to use VTimer only for single execution videos.

2.2.1 Mark skill start/end

To measure the flight time:

Navigate to the first moment of the skill and press Enter, or



You will notice that the time was saved to the timing table. Navigate to the end of the skill (net touch) and press Enter again. You will notice that VTimer had calculated current flight time and sum of flight times up to this skill.

Navigate to the start of next skill and repeat further.

	Start time	End time	Duration	Sum
1	0:01:190	0:03:353	02:163	0:02:163
2	0:05:095	0:06:318	01:223	0:03:386
3				
			•	

2.2.2 Moments navigation and correction

All moments you've marked are automatically bookmarked, so you can navigate to them by double clicking the corresponding cell. (For example double click cell in column 1, row 2 to go to the start of the second skill)

To correct some moment, select it in the table, navigate to the more appropriate moment in the video and press Enter again.

To delete all measured data press



2.2.3 Save the data

Measured data is stored automatically inside "vtimer" folder in you home directory. So if you want to work with data only inside VTimer you do not need to do anything special to save data. Moreover - data is associated with the video contents, not the file name, so you can move and rename your video files freely.

To make any further processing of data you will need to export it. To export current video's data to CSV file (which can be opened in Excel) press



Also, you can simply select required cells with the mouse and standard copy-paste to transfer the data almost anywhere.

2.3 Deinterlacing video

It is relatively common for video files to be recorded interlaced: that is, each frame of the video actually contains 2 images, taken at different times, and interlaced row-by-row. While this may be acceptable for slow motion videos, for others it can create visible artifacts:



Moreover, interlaced video recorded at e.g. 50 FPS is actually played back at only 25 FPS (because 2 half-frames are required to create one "full" frame). However, smart algorithms that can transform e.g. 25 FPS interlaced DV video into 50 FPS deinterlaced one do exist.

VTimer allows you to apply deinterlacing to your videos. To do this, select "File \rightarrow Deinterlace video" menu.

⊖ ○ ⊙	Deinterlace video
Input file:	Select
Input file framerate:	25 FPS 🗧
Output video codec:	Microsoft MPEG4v2
Output file:	
Convert	

Select the file you want to deinterlace, specify its frame rate, and press "Convert".

00	Deinterlace video		
Input file:	/Users/gp/Movies/test.avi		
Input file framerate:	25 FPS 🛟		
Output video codec:	Microsoft MPEG4v2		
Output file:	/Users/gp/Movies/test.avi.deinterlaced.avi		
Convert			

Wait for VTimer to report the end of deinterlacing. It can require quite some time (usually roughly comparable to the video length), so please be patient.

To open deinterlaced video file on OS X, you'll need to install some addition video codecs. <u>Perian</u> is one widely-used open source codec pack.

If you are using Windows version of VTimer, and use H.264 codec for deinterlaced videos, you'll need a decoder for that as well. <u>K-Lite Codec Pack</u> includes suitable decoder, among others.