



Leonardo da Vinci



Leonardo V3

V3 Solution Installation and Configuration Manual

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Abstract:

V3 Solution combines *CamStudio+*, a software enabling to record the screen activity of a computer and to merge it with the voice of the presenter, *V3 Capture*, an add-in for Microsoft PowerPoint which collects information for indexing purposes, and the XviD video codec.

This manual explains how to install *V3 Solution* and how to configure it.

Keyword list: installation, audio, video, CamStudio+, V3 Capture, XviD Codec

0 EXECUTIVE SUMMARY

V3 Solution combines *CamStudio*¹, a software enabling to record the screen activity of a computer and to merge it with the voice of the presenter, *V3 Capture*, an add-in for Microsoft PowerPoint which collects information for indexing purposes, and the XviD video codec.

This manual explains how to install *V3 Solution*. It also describes how to proceed in order to check or set the optimal settings in *CamStudio*+. Those settings are important for optimizing the output of *CamStudio*+

¹CamStudio+ is an evolution of CamStudio v2.0 by RenderSoft.

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1 INSTALLATION

1.1 Requirements/Minimal configuration

Here is the minimal configuration in order to run *V3 capture* add-in, *CamStudio+* and *XviD video Codec* on your computer :

- Processor : Pentium III 700 MHz
- Memory : 256 MB RAM
- Operating System : Windows XP and Windows Vista
- A simple sound card with a microphone which allows to record audio from it
- Microsoft Office

1.2 Installation

If you have not already downloaded the installation package please proceed. You can download a copy of *V3 installation package* from the following URL : <http://www.leonardo-v3.eu/>. The package is named “V3_solution.exe”. Then go to your download directory, double click on the file and follow the instructions. The default installation paths are set to “C:\Program Files”. At the end of the installation process you can create a shortcut for *CamStudio+* for a standalone use.

1.3 Desinstallation

If you want to uninstall *V3 Capture*, *CamStudio+* and *XviD Codec* go to *V3 Capture* directory which is located in “C:\Program Files\V3 Capture” if you have not changed the path when you installed it. In this directory you will find a file named “Uninst.exe”. Double click on it and follow the instructions. If you have stored files (i.e. : AVI video files, ...) in *CamStudio+* directory the latter is not deleted by the uninstaller.

2 CONFIGURATION

This section explains how to configure *CamStudio+* and *XviD video codec*. *V3 Capture* does not require any configuration. The optimal values for *CamStudio+* are set by default. The following sections can be used to check if the settings are still correct.

2.1 Audio options

The “Record audio from microphone” option has to be selected as shown in [Illustration 1](#). The audio options are shown in [Illustration 2](#) and detailed in the following sections.



Illustration 1: Audio options scroll-down menu

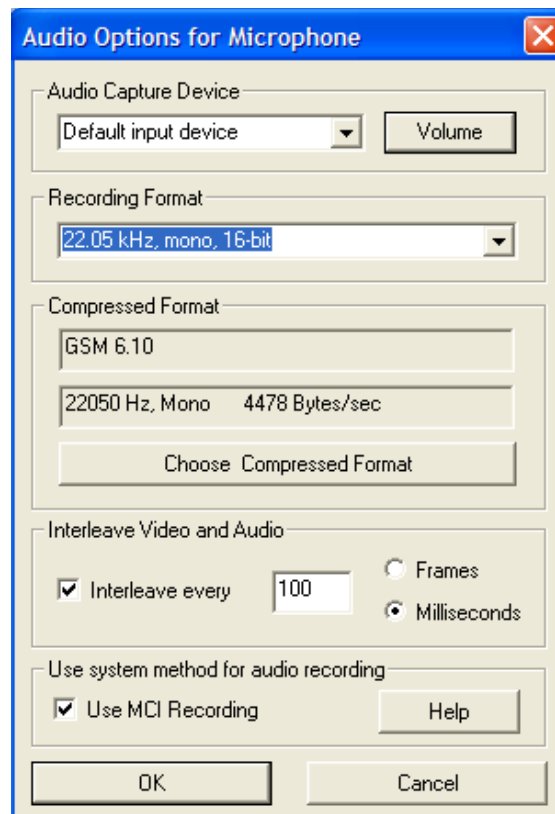


Illustration 2: Audio options window

2.1.1 Audio Capture Device

The audio capture device depends on the device you want to use. In general Microsoft Windows XP chooses automatically the connected device if you use a Bluetooth headset and the “Toshiba Bluetooth stack” which is installed on Toshiba computers (i.e. : if a Bluetooth headset is connected, it is selected and if it is not connected, the sound card device is selected). In that case you can let the audio device set to the “default input device” option. If you do not use the “Toshiba Bluetooth stack”, select “Bluetooth Audio” (this name depends on the Bluetooth device you use). If it is a sound card, select the option relative to your card.

2.1.2 Recording format

The default recording format is “22.05 kHz, mono, 16-bit”.

2.1.3 Compressed format

The compressed format is “GSM06.10, 22.05 kHz, mono”. This Microsoft audio codec is optimized for speech.

2.1.4 Interleave video and audio

It is selected by default and the figure is set to “100 milliseconds”.

2.1.5 Use MCI recording

This option is selected and is very important. It avoids loss of lipsync.

2.2 Video Options

The video codec (from main menu, choose Options -> Video Options) is set to “XviD codec”. If it is the first time you use *CamStudio+* click on “configure” button (Illustration 3). Then fill in the fields with the settings from [Illustration 4](#). The number of frames/second is set to 1.

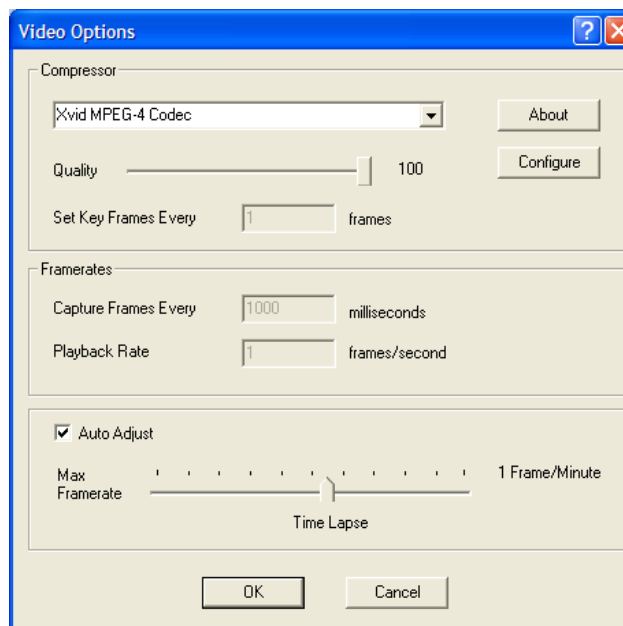


Illustration 3: Video options window

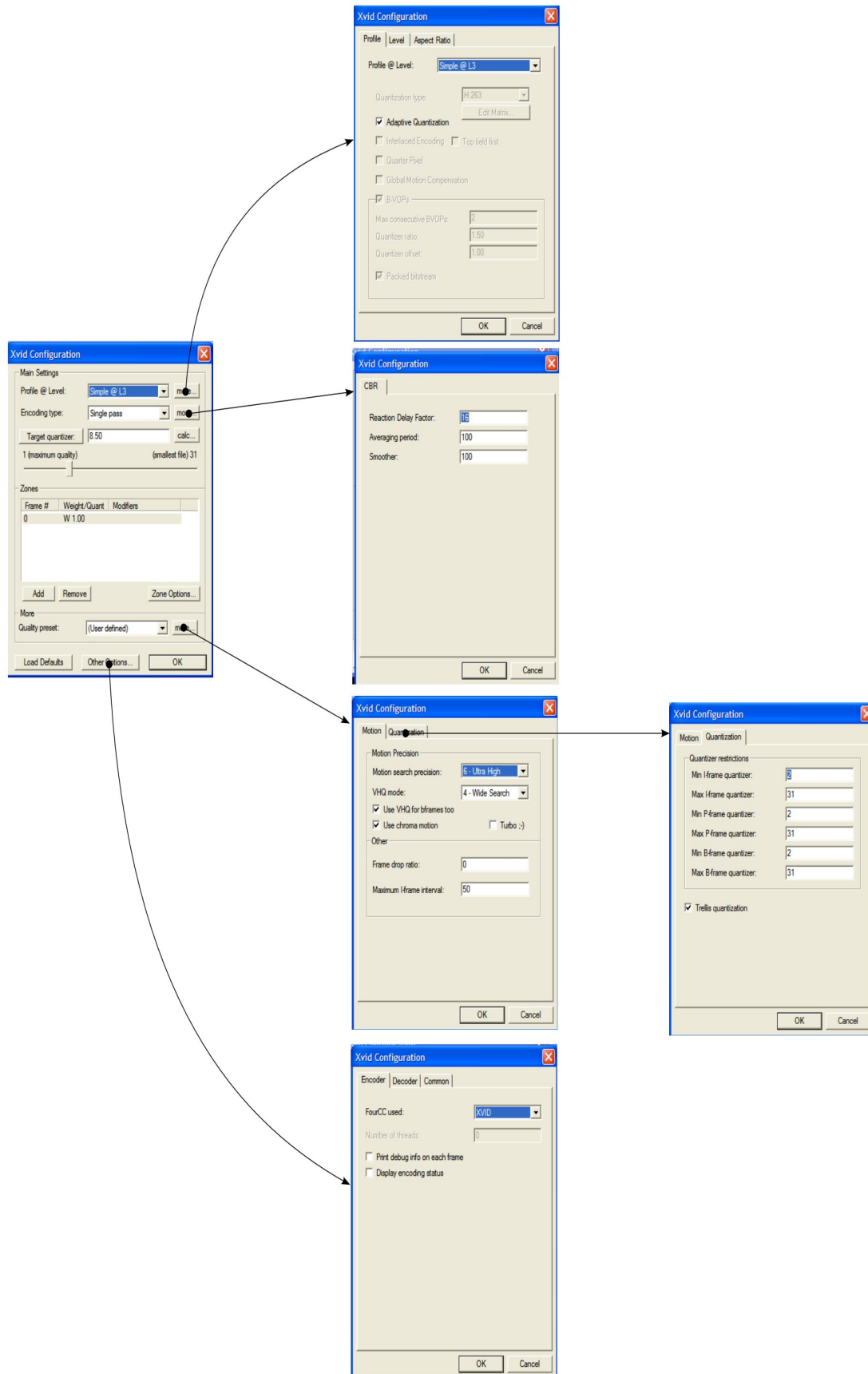


Illustration 4: XviD Video Codec Configuration Windows

2.3 Region scroll-down menu

This section enables to choose the region of the screen which has to be recorded. Default is “Full Screen”.

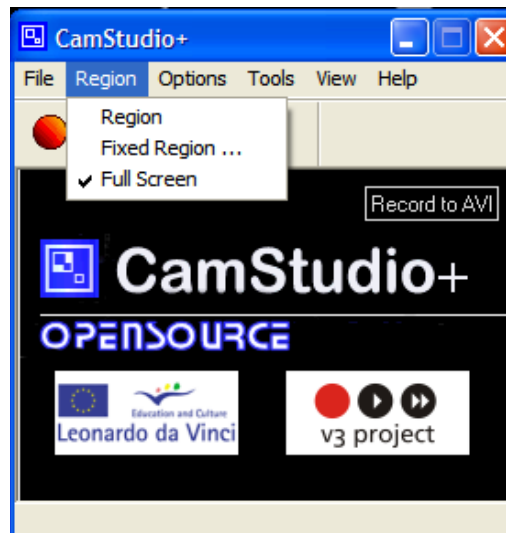


Illustration 5: Region options

2.4 Enabling presentation indexing

This options is to be used with Microsoft PowerPoint whenever indexing of video file is required. *CamStudio+* automatically activates the option if Microsoft PowerPoint is already launched and desactivates it otherwise. Please do not activate it if Microsoft PowerPoint is not launched or if you use another presentation software (OpenOffice, Adobe Acrobat, Lotus Notes, ...) because *CamStudio+* will wait endlessly information for starting the recording from it.

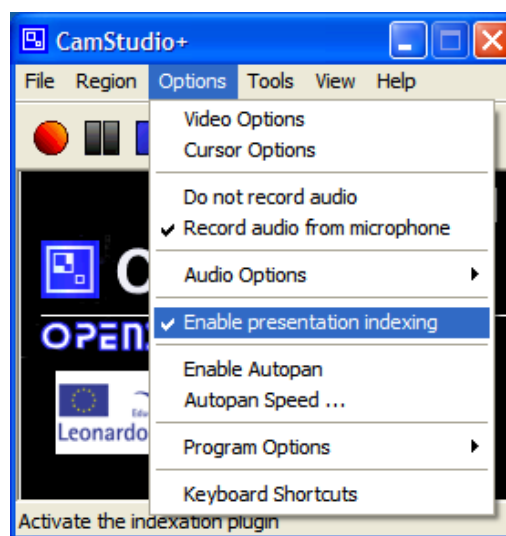


Illustration 6: Presentation indexing option

2.5 Saving CamStudio+ settings

If you modify the parameter settings, the latter are saved if the options “Save settings on exit” is set.

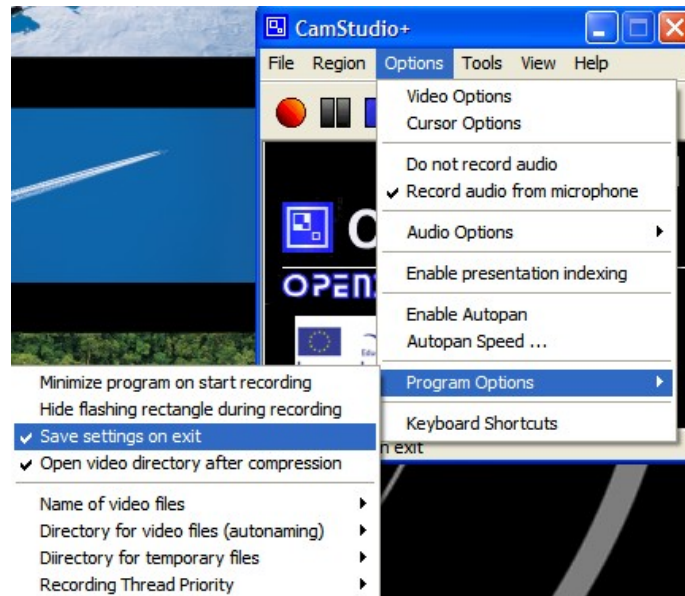


Illustration 7: Save settings on exit option

2.6 Checking the recording

When activated, this option automatically opens the directory where the output file is saved. It allows you to have a direct access to the recording in order to validate it. This option is activated by default.

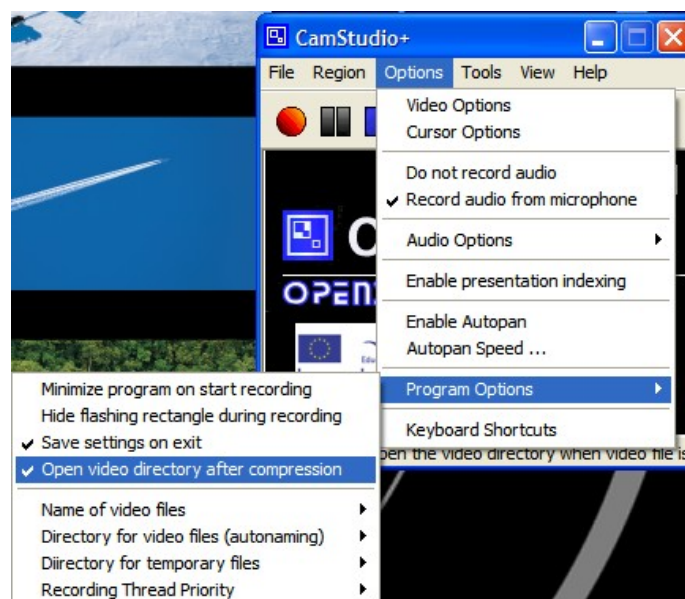


Illustration 8: Open video directory option

2.7 Output file naming

By default, *Camstudio+* is set to “automatic file naming”. If you choose the other option, you will be prompted to enter the path and name of the recording.

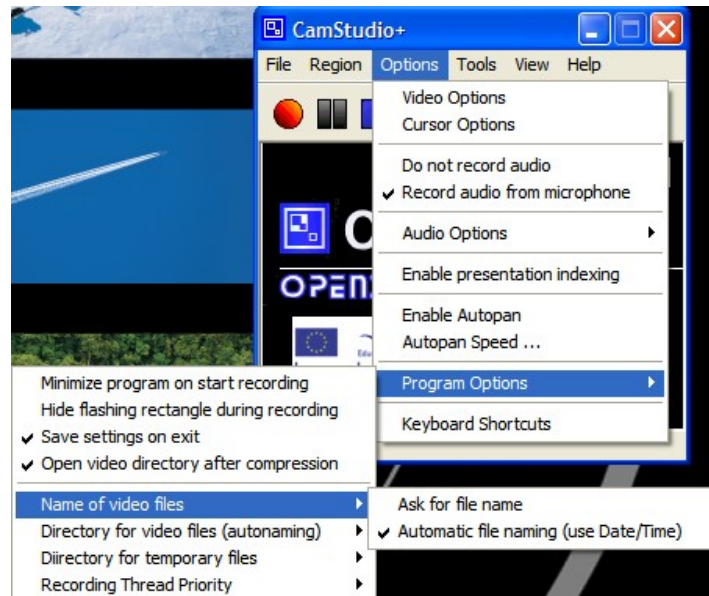


Illustration 9: Output file naming option

2.8 Directory for storing output file

CamStudio+ saves the output file in its installed directory. You can modify the location where *CamStudio+* saves the recordings by changing this option.

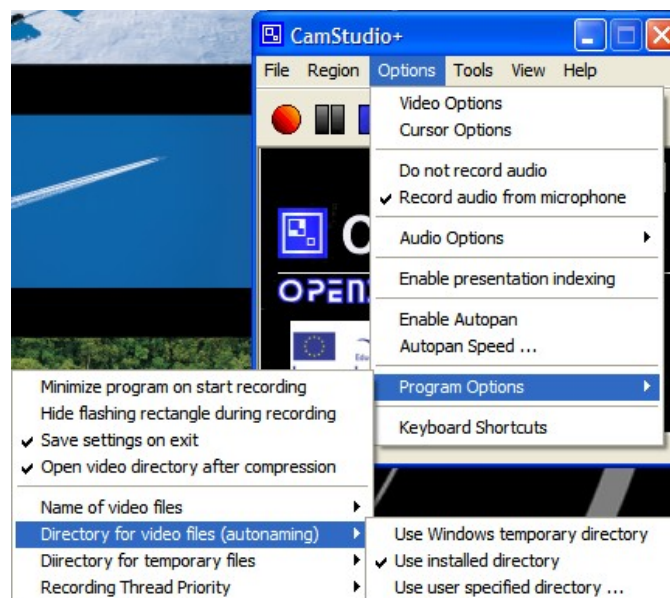


Illustration 10: Select video directory

2.9 Directory for storing temporary files

Camstudio saves the temporary video and audio files in a user-defined directory. If there is an error when merging audio and video at the end of the recording, it is still possible to merge manually the two temporary files provided they are undamaged by using a video treatment software like [VirtualDub](#). Caution! To save disk space Camstudio erases those temporary files whenever you start a new recording.

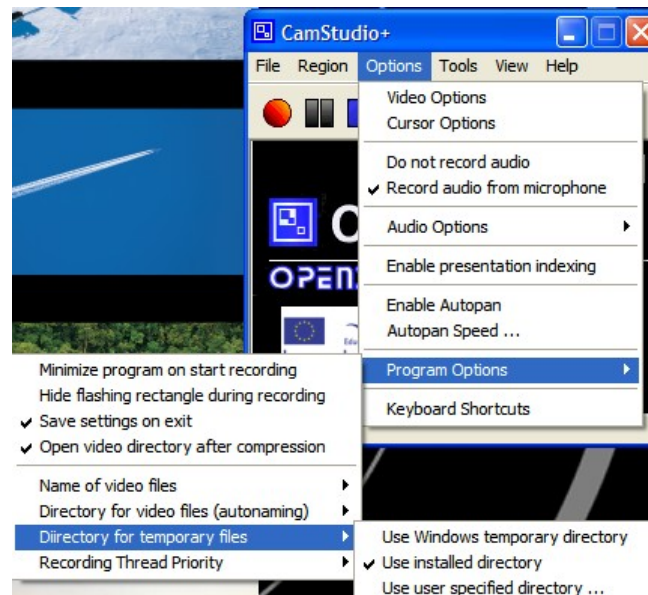


Illustration 11: Select temporary files directory

2.10 Thread priority

Do not change this option because it has an important impact on the AVI file and the use of the operating system when recording. Default is “Normal”.

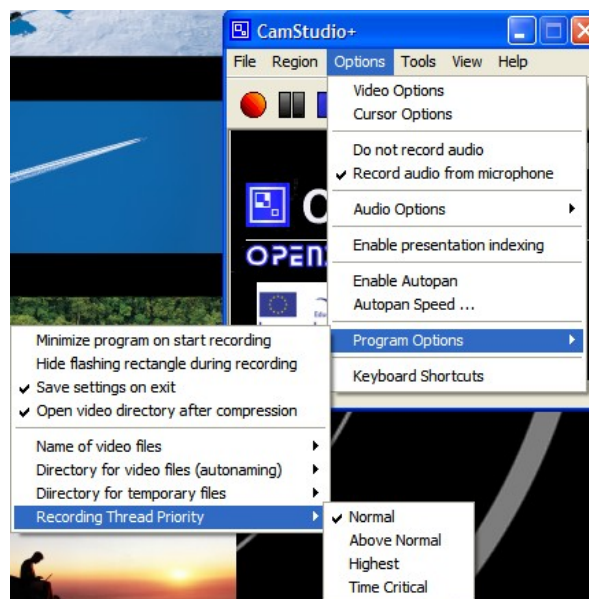


Illustration 12: Thread priority option

2.11 Keyboard shortcuts

Another way to handle the events is to use the keyboard shortcuts located in the “Options scroll-down menu”. The default shortcuts are shown in [Illustration 13](#). Notice that it is not possible to use the stop shortcut when you use the *V3 Capture* add-in. You have to follow the step described in *V3 Capture user guide* which is to click on the black screen at the end of your presentation or to press “ESC” key.

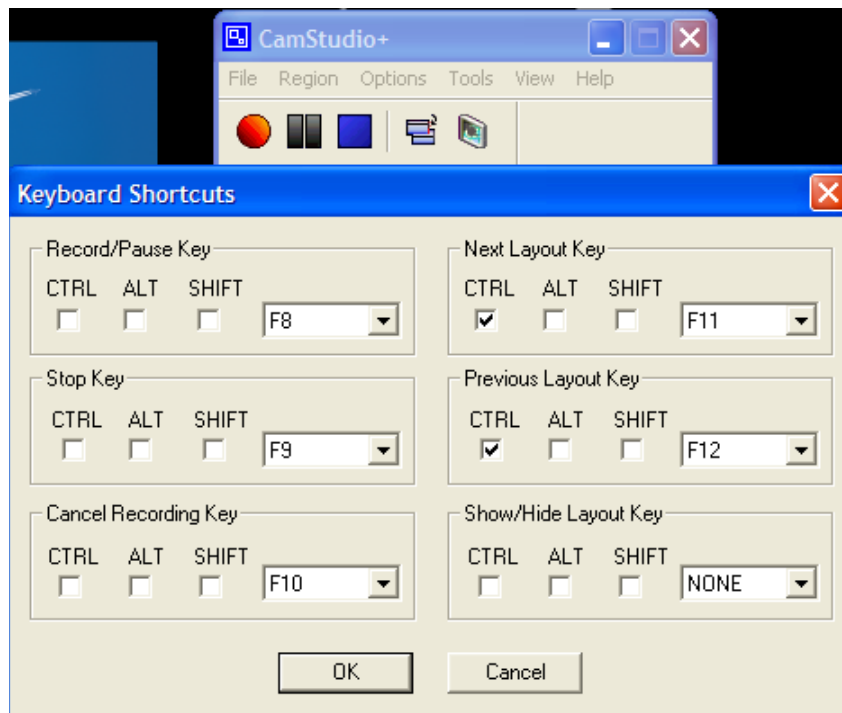


Illustration 13: CamStudio+ Keyboard Shortcuts Window

3 DOCUMENT HISTORY

Date	Revision	Author(s)	Comment
8 IX 2006	0.1	Geoffrey Miche	Initial version
17 X 2007	0.9	Geoffrey Miche	Edited version following final CamStudio+, V3 Capture version
21 XI 2007	1.0	Geoffrey Miche	Edited version following comments from Laurent Schumacher
27 XI 2007	1.1	Laurent Schumacher	Minor changes for the sake of consistency