

SimViewer

Direction for Use

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1 Introduction

SimViewer is a standalone application for viewing and editing exported SimView debriefing files and SimPad log files.

If you license SimViewer you can also record the activities during a Standardized Patient Recording or Laerdal manikin scenarios controlled by Instructor Applications. When a USB-camera and a microphone are added to the PC, can you record both video and audio to support the debriefing of the scenario with the students after the training session. In the following you will find instruction on how to connect and use USB cameras and microphones with SimViewer .

2 Cautions and warnings

- By using this product, Laerdal® Medical does not condone the use of this system for violating any government, state or local laws or personal rights.
- Laerdal® Medical will not be responsible for loss or stolen property due to the use nor failure of operation of this equipment.
- Read understand, and follow all equipment instructions, safety warning and guidelines before operating the Laerdal® SimView and all associated equipment.

3 Installing the software

SimViewer PC requirements:

Hardware

Minimum:

CPU: 2.2Ghz dual core

RAM: 2GB

HD: 500MB free

Recommended:

CPU: 2.2Ghz dual core or higher

GPU: NVIDIA GeForce 500 series or higher
(Must be a NVIDIA card that supports CUDA 4.0+)

RAM: 3GB

Hard disk: 500MB free.

Software

Minimum:

OS: Windows XP fully updated with Internet Explorer 8 installed.

Note! On Windows XP licensing and recording is not possible.

Supported USB Cameras:

Minimum: Newer models of Logitech or Microsoft.

Recommended: Newer models of Microsoft or Logitech, possibly supporting h.264 video encoding such as the Logitech C920.

The SimViewer software can be downloaded from www.laerdal.com under the download tab.

Downloaded the file and follow the directions for installing the application.

When installed read on in chapter 3.1 on next page.

3.1 Starting SimViewer

On your desktop you will get a SimViewer icon:



double click it and the program will start.

This will be the first message you will get from SimViewer:

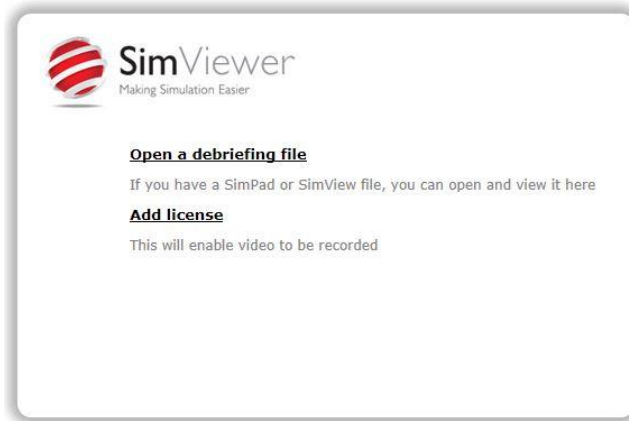


Figure 1

If you only want to see and edit debriefing files just click the “Open a debriefing file” and read on in the next chapter.

If you want to create activities and record video, you need a license key from Laerdal.

You can purchase the license from www.laerdal.com.

Note! If you are using a PC running Windows XP you cannot add a license.

When you have obtained the license file click the “Add license” button, and click “Yes” on the next screen. Insert the license in the “License key” field and click “Add”

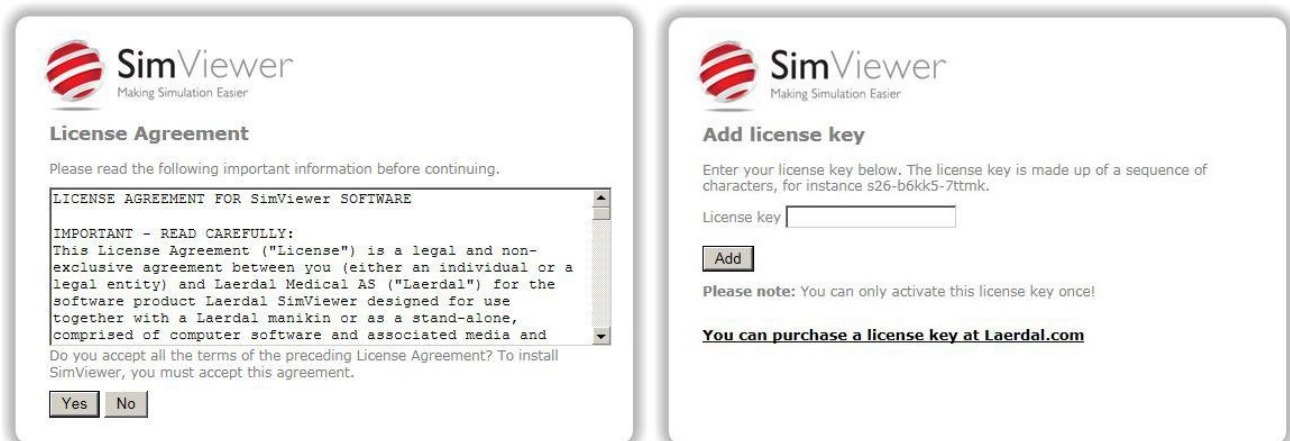


Figure 2

4 Functions in SimViewer

In order to work with SimViewer you must choose one of the options on the start-up screen. Using Windows XP will only give you one option: “Open a debriefing file”.

4.1 Open a debriefing file

The SimViewer can be started in more than one way:

- By double clicking an appropriate file (.ssx) in Windows Explorer.
- By double clicking the application itself on the desktop.

When SimViewer starts after double clicking the application icon you will get the choice of open a debriefing file or add a license. If you have a licensed version you can “Create new activity” or “Start video recording”.



Figure 3 The possible selection windows in the start-up window

When you have clicked the “Open a debriefing file” the normal Windows “Open file” window will be opened. (See next chapter describing the use of SimPad files).

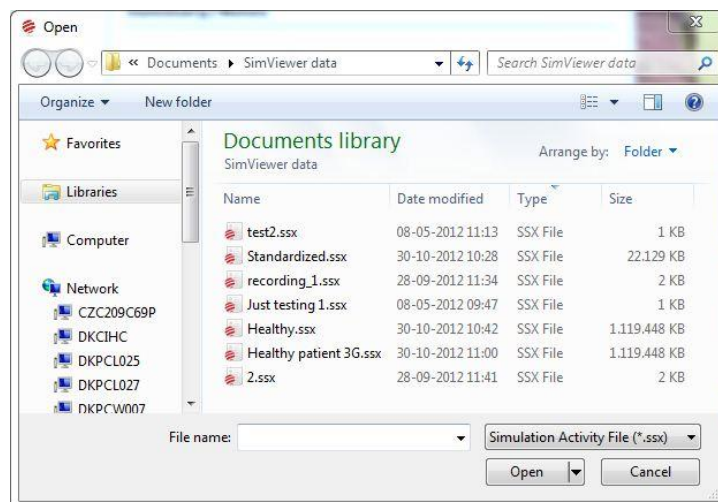


Figure 4 The Windows “Open file” window

Select the file you would like to see, and open it by double clicking.

If SimViewer is started by double clicking a simulation file (.ssx) then it starts directly by showing the simulation file.

4.2 Using SimPad with SimViewer

SimViewer can read the simulation log files saved on a SimPad and show the Simulation Activity, with a SimPad connected to the PC. The function in SimViewer is the same as with other .ssx files, there is no difference between .ssx files exported from SimView or log files from the SimPad.

Connect the SimPad to the PC and use the “Open folder to view files” option

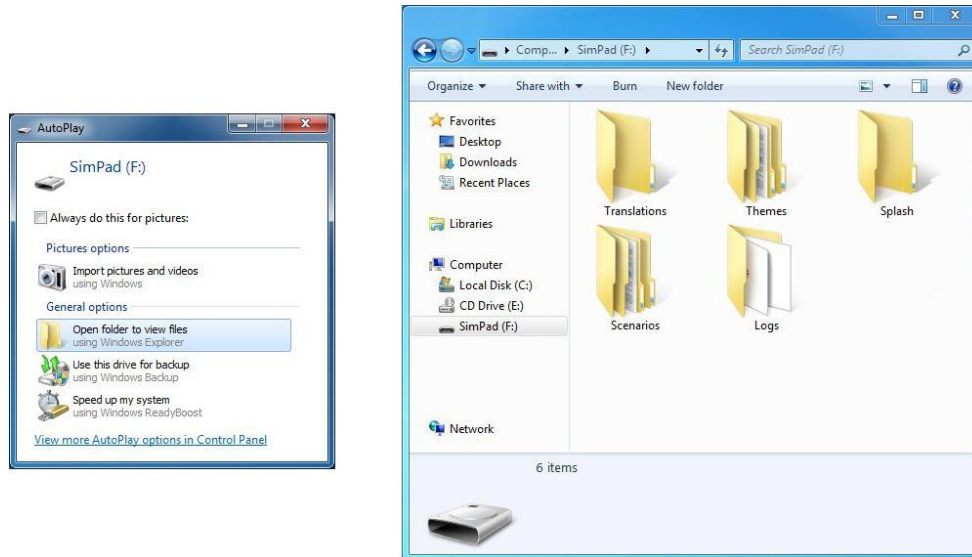


Figure 5

Open the “Logs” folder

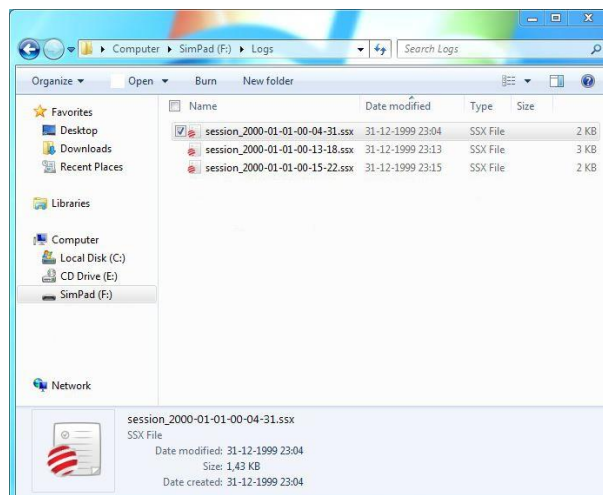


Figure 6

Select the file you want to look at and double click; SimViewer will then open and show the contents of the file. If you do any editing you can either save the file as a new file or just update the original file.

4.3 Viewing the opened files

By opening an .ssx file you can view the recordings and do debriefing, and edit the “Event log”.

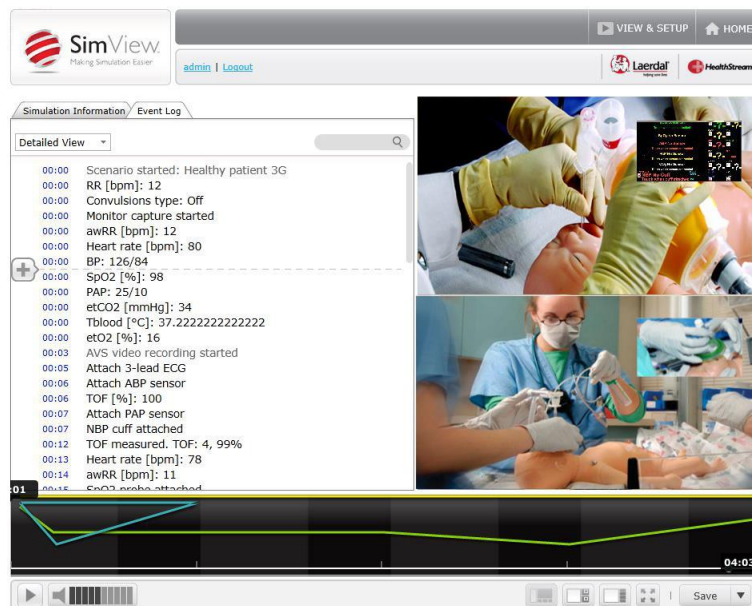


Figure 7 Debrief window

You can use the timeline to skip forward and backward in the file, you can also jump to an event by clicking in the event log. You can search in the event log and jump to the desired point by clicking the found event.

4.3.1 Saving or printing the debriefing file

When you have added comments etc. to an opened debriefing file you will not be asked to provide a name if you press “Save”, the original file will be overwritten. If you want to have both the original file and the one with your additions you must use the “Save as” option and provide a folder and a name for the new file.



Figure 8 The save button.



Figure 9 The save options.

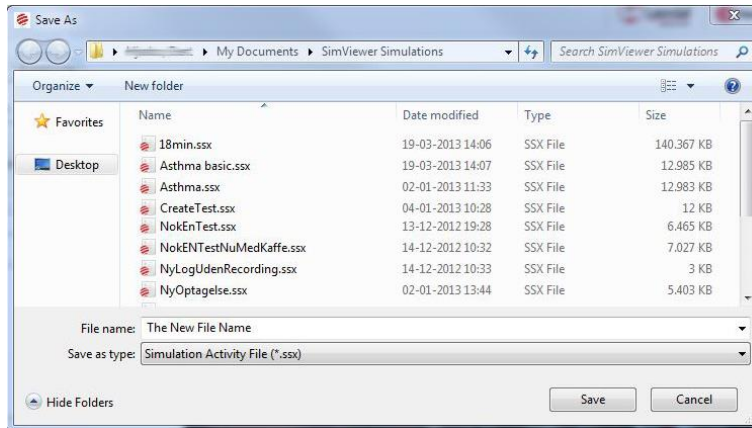


Figure 10 Saving the debrief file

The print option give the possibility to make a PDF file of the “Event log”.

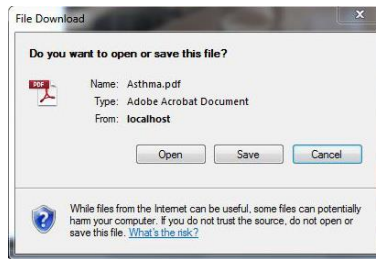


Figure 11 The options when doing a “Print”.

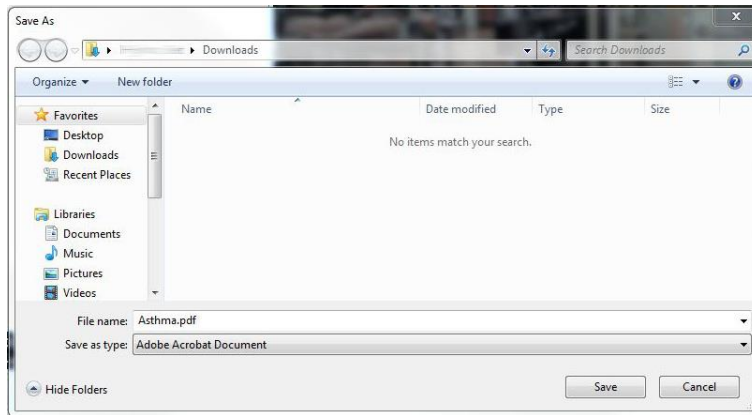


Figure 12 Saving the print file.

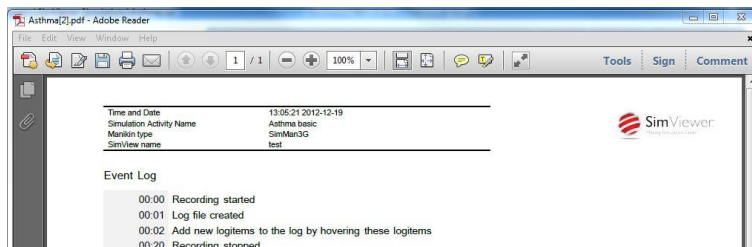


Figure 13 The print file, showing the “Event log”.

5 Working with a licensed SimViewer



Figure 14 The start-up screen.

If you want to do setup and recording, and also get access to all features press **“Start video recording”**.

The next chapters will go through the possibilities in **“View & Setup”**.

5.1 Configuration

To change the configuration by adding equipment to the SimViewer press the **“Start video recording”** link on the start-up window as shown on Figure 14.

You can add one USB camera and one audio source to SimViewer.

After clicking in the **“Start video recording”** you will get the SimViewer main **“View & Setup”** window. This is where you can add a camera and/or a microphone, open .sx files or create new recordings.

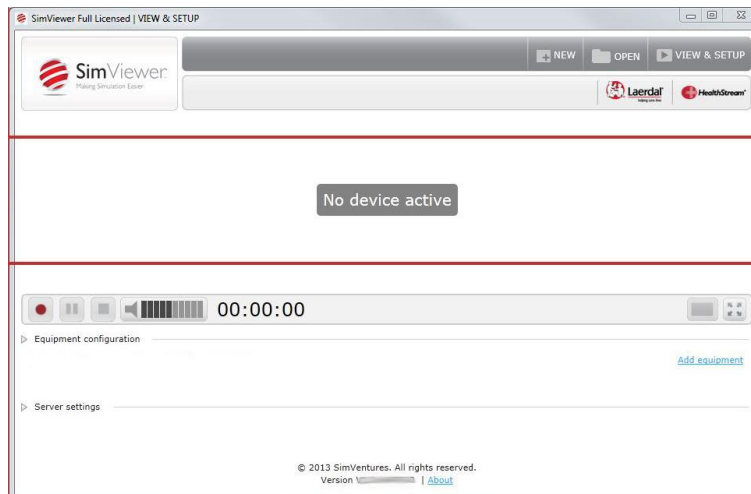


Figure 15

5.2 Server settings

In the server setting for SimViewer you can provide a name for the Server. This is the name that will be added to all recordings done with this particular installation. In this way you can provide different names if you have more PCs running SimViewer. You can then when opening the recording see on which PC it was recorded, as it will be in the **“Simulation Information”** under **“SimView name”** see Figure 16.

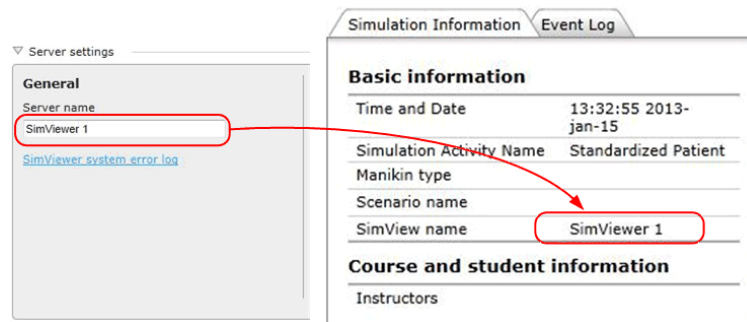


Figure 16

5.3 Adding USB Camera

To add a USB Web camera to SimViewer, start SimViewer and choose **Start video recording** on the start window. See pictures on the next page.

Laerdal recommends using new models and particularly Microsoft or Logitech web cameras including ones with support for H.264 video encoding.

If the web-cam includes a microphone, you will have the possibility to use it instead of any other installed microphone.

Note! When you have added a camera you cannot add one more until you have deactivated the first; you can only have one camera active at one time.

1. From the Home screen click the **“VIEW & SETUP”**
2. Click the **“Add equipment”** (1)
3. Click the in the **“Select device to add”** (2) box.
4. Select USB camera from the drop down list (3).
5. Wait while the list of connected USB cameras is updated.
6. Click in the **“Found devices”** (4) to get the drop-down list and select the desired camera
7. Click the **“Add equipment”** (5).
8. You can now select the resolution on the video quality by clicking the **“Video quality”** (6) drop-down list and selecting the video quality you want.
9. The camera is activated by default. If you want to deactivate the camera later then uncheck the **“Active”** check box (8).
10. Press **“Save changes”** (7) if this was the last device to add, otherwise add a new device by clicking the **“Add equipment”** button (1) again and continue until you have added all the needed devices.



Figure 17 Add equipment starting point

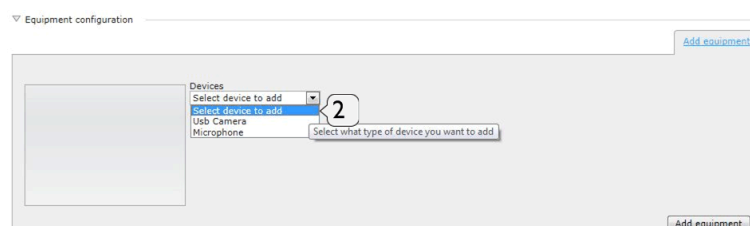


Figure 18 How to enable the drop-down list

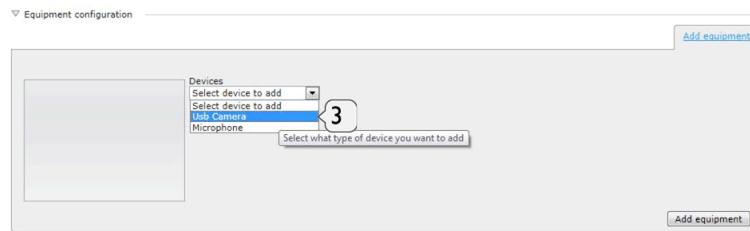


Figure 19 Drop-down list of possible type of equipment

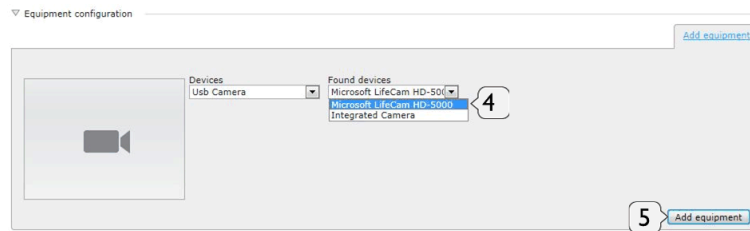


Figure 20 USB Camera selected

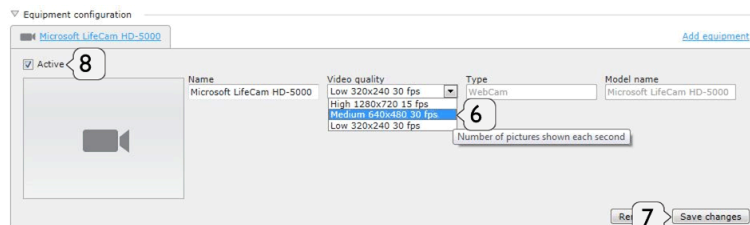


Figure 21 Video resolution selection

Note! Depending on the performance of your PC (laptop) you may have to avoid using the HD resolution and running any other application, as it may make your PC unresponsive.

5.4 Audio setup

To add a microphone to the simulation setup, start SimViewer and then click the **Start video recording** on the start window.

1. From the Home screen click the **“VIEW & SETUP”**
2. Click the **“Add equipment”** (1)
3. Click to enable the drop down menu (2) box.
4. Select Microphone from the drop down list (3).
5. Click the **“Add equipment”** (4)
6. The Microphone is active by default.
7. If you want to add another device click the **“Add equipment”** button (1) again and continue until you have added all the needed devices installed.

After you have installed the microphone, you have some options. If you have added audio equipment to the line input, you may have to select which channel the audio should be taken from, as the SimViewer only records in mono. On Figure 25 you can see the options, enable the drop down list (5) and select the option you want, then press save changes(6).



Figure 22 Add microphone or audio equipment

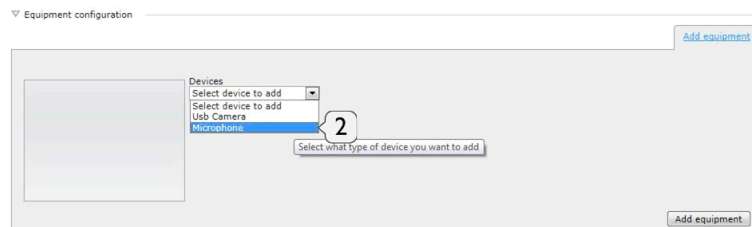


Figure 23 Select microphone

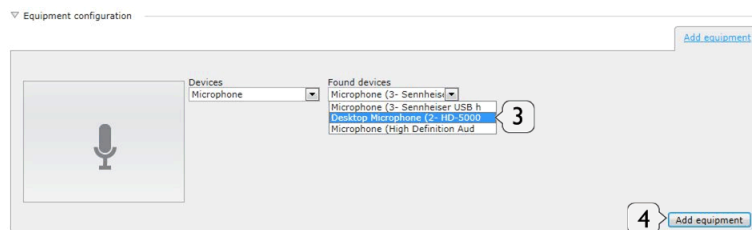


Figure 24 Select the wanted microphone

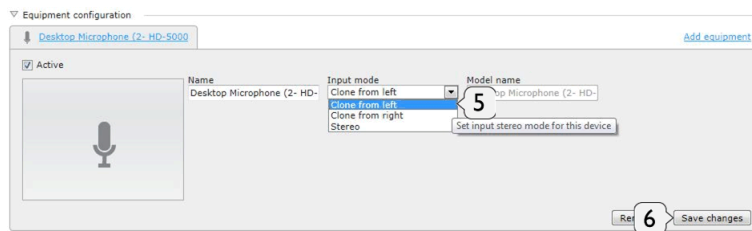


Figure 25 Microphone and audio options

5.5 Create new activity

To create a session log either press the “Create new activity” on startup screen or if SimViewer already is running use the “New” in the top bar.

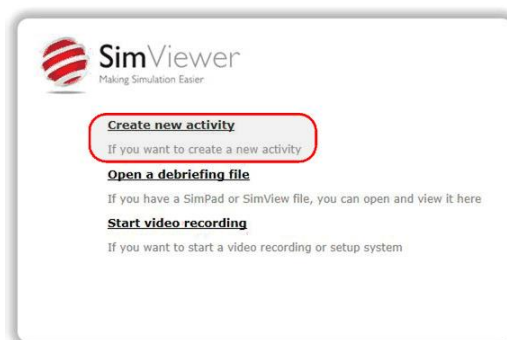


Figure 26



Figure 27

You can add text in all the highlighted fields, they will get highlighted one at a time, when you hold the cursor over the area.

Figure 28

Figure 29

Figure 30

5.6 Making a video recording

Video recording is started by pressing the red record button, input from USB camera, PM and audio will be recorded if they are activated.

Note! Only on licensed versions.

Note! The recording button is only active if either a camera or a patient monitor is activated and you have a license.

Note! Do not run any other application on the PC when in “View & Setup”, it may make your PC unresponsive.

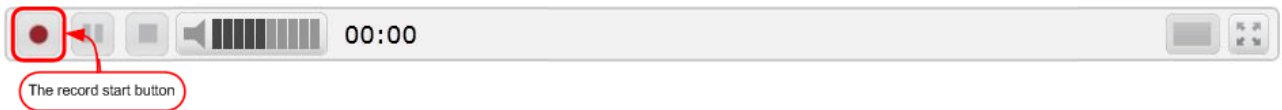


Figure 31 Start recording

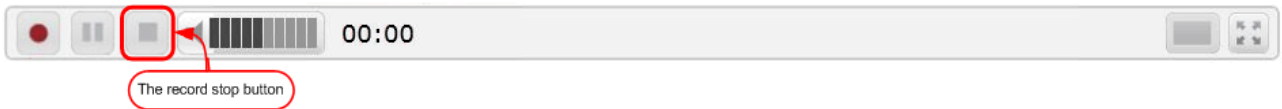


Figure 32 Stop recording



Figure 33 Press “Yes” to stop the recording, opening the debrief window

Note! You cannot add comments during the recording, see next chapter how to add comments and events to the recording later.

5.6.1 View and edit the recording

When viewing the recording you can add comments to the “Event log”.



Figure 34 The debrief window.

To add comment to the event log place the cursor over the event log and a big plus sign will occur, the click on the plus sign and you will be able to edit the event log, see figures Figure 35 to Figure 37.

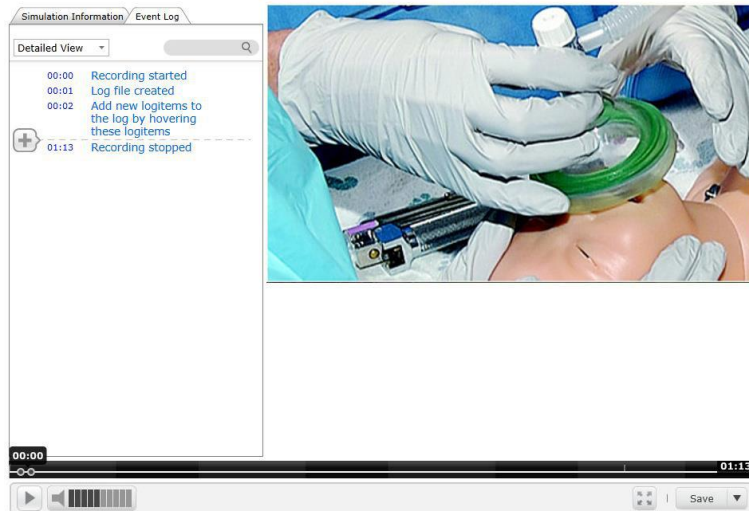


Figure 35 Hovering over the “Event log” to add comments.

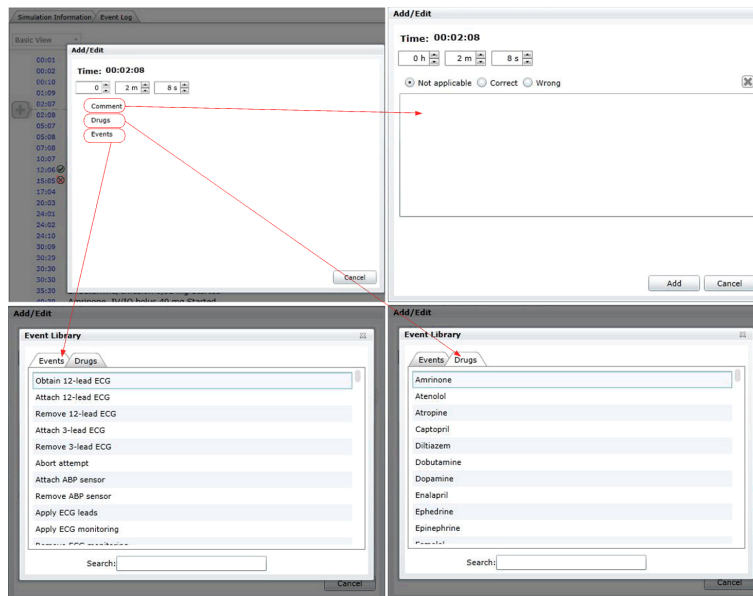


Figure 36 The four type of comments that can be added

After choosing and event or drug, you get a new window to add comments or change the dose size, you can also enter the time for the event or dose, press **Add** when you have entered the needed data or **Cancel** if you don't want to add the comment or dose.

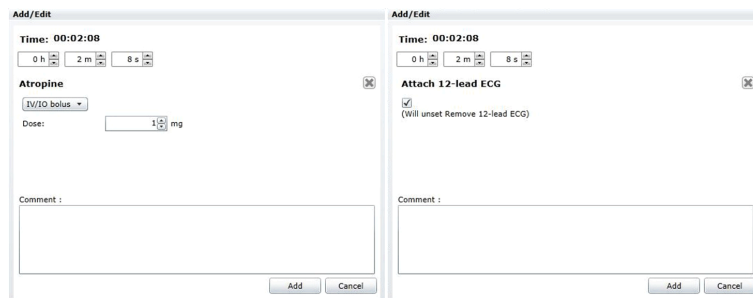


Figure 37 Adding a drug or event with comments

5.6.2 Saving or printing the recording

The first time you save a file you will be asked for a where to save and a name for the recording. When you have added comment etc. to a previously saved recording you will not be asked to provide a name. If you want to have both the original recording and the one with your additions you must use the “Save as” option and provide a folder and a name for the recording.

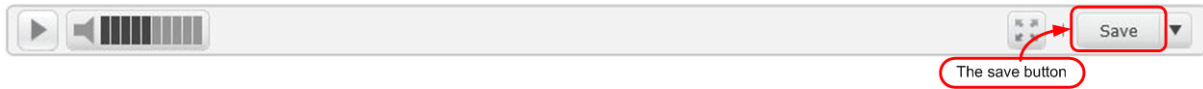


Figure 38 The save button.



Figure 39 The save options.

The print option give the possibility to make a PDF file of the “Event log”.

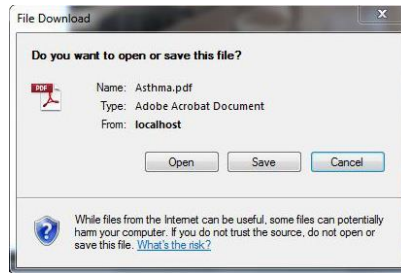


Figure 40 The options when doing a “Print”.

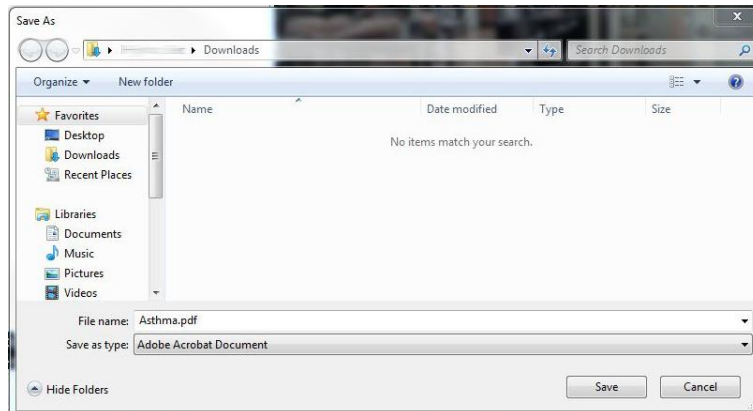


Figure 41 Saving the print file.

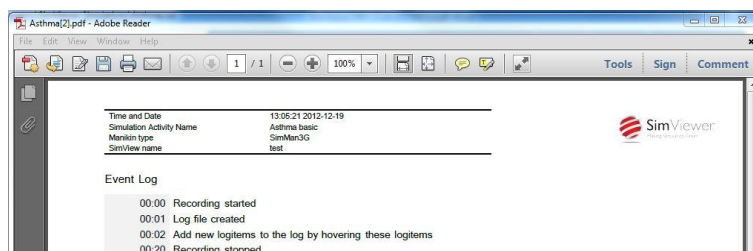


Figure 42 The print file, showing the “Event log”.

6 Troubleshooting

Q: I have added a microphone, but I do not get any sound recorded?

A: You may have to change the input modes clone setting default is clone from left, but your equipment may only use the right input in the line-in plug, change to clone from right in input mode.

Q: I have added a USB camera, but I get the message “Device not found” instead of the video?

A: You may have moved the camera from one USB port to another port. In the setup window remove the camera, and then add the USB camera again, then you will get video.

Q: I get the message: “Audio: Media source not ready”

A: If the microphone is a USB camera, it may have been move from one USB port to another port. See above for a solution.

Q: My PC stopped working properly when I was in View & Setup?

A: Try stopping SimViewer by clicking on the red X in the upper right corner, it may take some time before you get the pop up window asking you if you want to stop, but wait and click yes. You should only run SimViewer on the PC no other programs, if you did not run other programs consider upgrading your PC.

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