

# Session Viewer

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*User Guide*

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## 1 Introduction

Session Viewer is a standalone application for recording, viewing and editing exported SimView debriefing files, SimPad log files and BLS result files.

If you add a license to Session Viewer, 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 and or a Patient Monitor 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 camera, Patient Monitor and a microphone with Session Viewer.

## 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® Session Viewer and all associated equipment.

## 3 Technical requirements and installing the software

Session Viewer and LLEAP computer requirements:

<b>Hardware</b>	<b>Minimum:</b>	<b>Recommended:</b>
CPU	i3 or higher (multi core)	i5 or higher (multi core)
CPU Mark	2500 or higher	3500 or higher
RAM	2GB	4GB
Hard drive	50GB free	100GB free
<b>Software</b>	<b>Minimum:</b>	<b>Recommended:</b>
Windows Edition	7 Pro, 7Ultimate, 8 Pro and 8.1 Pro.	7 Pro, 7Ultimate, 8 Pro and 8.1 Pro.
Display resolution	1280x1024 or higher	1366x768 or higher
Supported USB cams	Logitech c920, c920C and c930e	

Session Viewer is installed as a part of LLEAP, or separately from a downloaded installer.

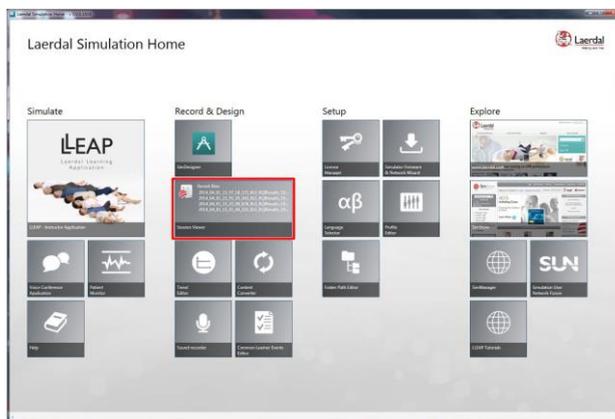
When installed read on in chapter 3.1 on next page.

### 3.1 Starting Session Viewer

In your start menu you will get a Session Viewer icon double click it and the program will start.



If you have installed LLEAP, you can start Session Viewer within LLEAP by clicking the Session Viewer tile from the LLEAP home page.



This will be the first message you will get from Session Viewer:

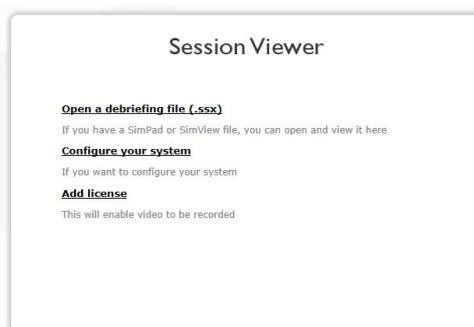


Figure 1

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](http://www.laerdal.com).

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

### Add license key

Enter your license key below. The license key is made up of a sequence of characters, for instance s26-b6kk5-7ttmk.

License key

Please note: You can only activate a license key on one machine!

**[You can purchase a license key at Laerdal.com](#)**

### License Agreement

Please read the following important information before continuing.

LICENSE AGREEMENT for SimView Server software and Session Viewer software

**IMPORTANT - READ CAREFULLY:**  
This License Agreement ("License") is a legal and non-exclusive agreement between you (either an individual or a legal entity) and Laerdal Medical AS ("Laerdal"), a company incorporated under the laws of the State of Norway, and Healthstream Inc., a company incorporated in the State of

Do you accept all the terms of the preceding License Agreement? To install Session Viewer, you must accept this agreement.

Figure 2

## 4 Functions in Session Viewer

In order to work with Session Viewer you must choose one of the options on the start-up screen.

### 4.1 Open a debriefing file

The Session Viewer can open a debrief in more than one way:

- By double clicking an appropriate file (.ssx) in Windows File Explorer.
- By opening SessionViewer and selection **Open Debriefing file (.ssx)**

When Session Viewer 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 Start video recording.

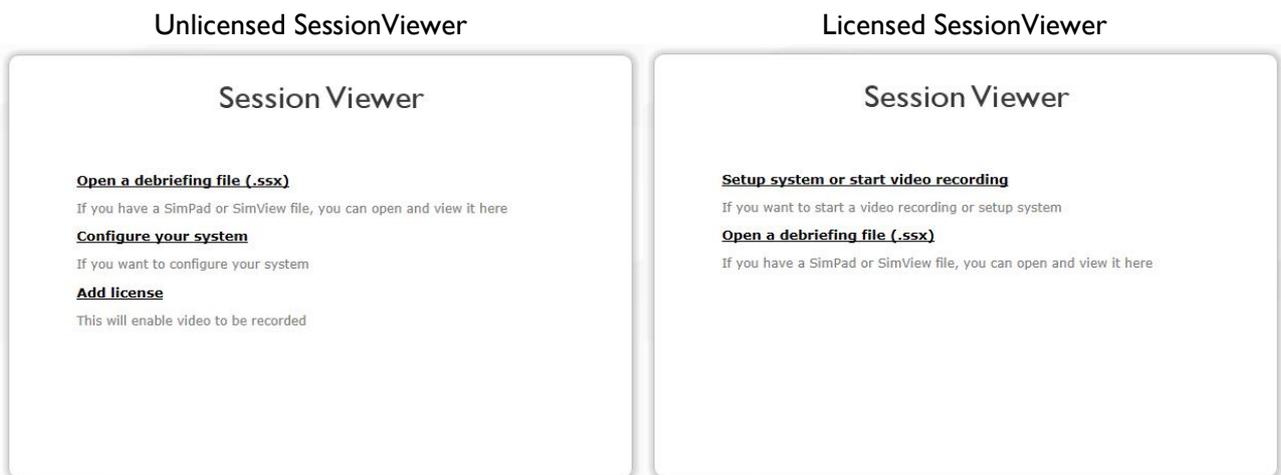


Figure 3 The possible selection windows in the start-up window

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).

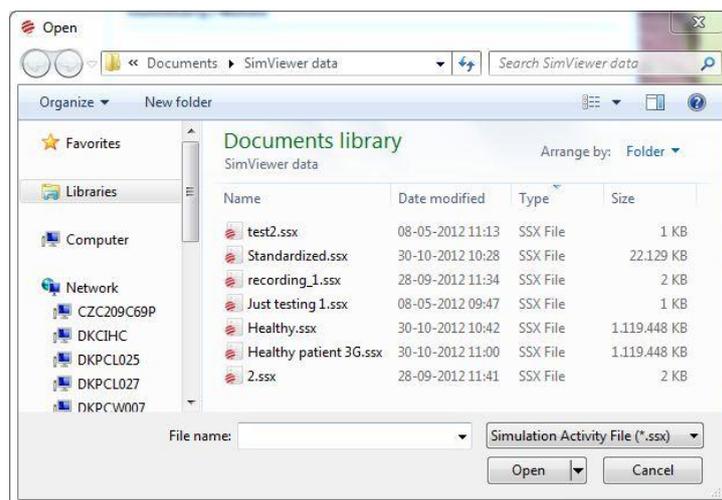


Figure 4 The Windows “Open file” window

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

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

## 5 Configure & Setup of Session Viewer

Below is a picture of the home page of an Unlicensed and Licensed version of SessionViewer highlighting the links to configure the system. Please refer to chapter I for an explanation of unlicensed and licensed versions.

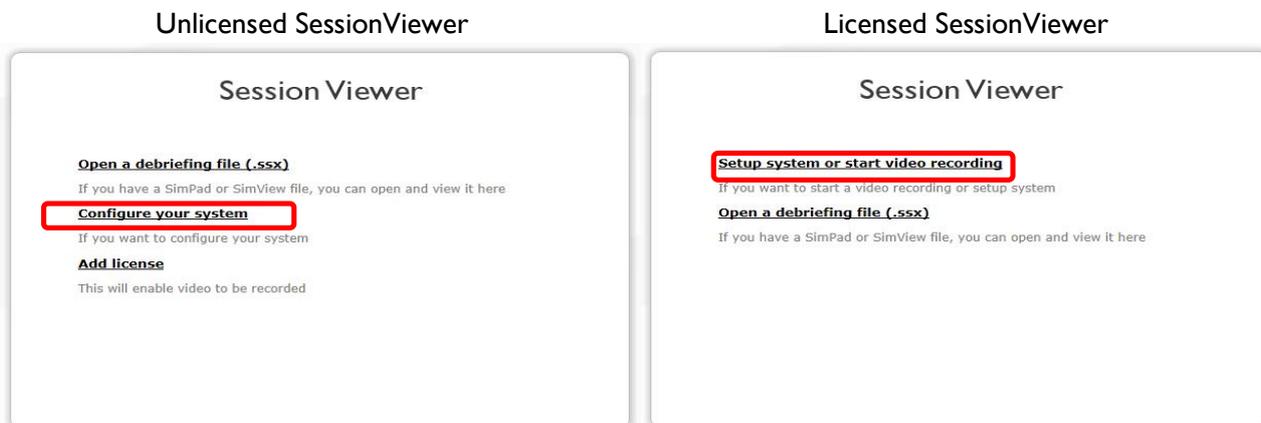


Figure 5 Different start-up screens for unlicensed and licensed SessionViewer.

The next chapters will go through the possibilities in the main window and the functions in Session Viewer.

### 5.1 Configuration

To change the configuration by adding equipment to the Session Viewer press the “**Configure your system**”(unlicensed) OR “**Setup system or start video recording**” (licensed) link on the start-up window as shown on Figure 5.

After you will get to the Session Viewer main window. This is where you can add equipment, open .ssx file, use the live view or create new recordings (licensed version only). You can add one USB camera, one Patient Monitor (PM) and one audio source to the Session Viewer.



Figure 6 The Session Viewer main window.

## 5.2 Settings

In the setting for Session Viewer you can provide a name for the Session Viewer. 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 Session Viewer. You can then when opening the recording see on which PC it was recorded, as it will be in the “Simulation Information” under “Session Viewer Name” see Figure 7.

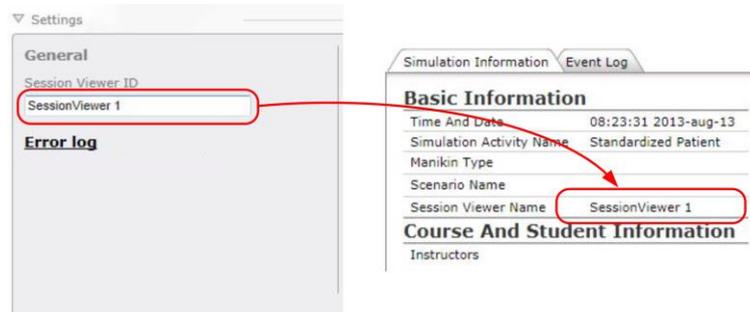


Figure 7

## 5.3 Adding a USB Camera

To add a USB camera to Session Viewer, from the Main screen follow the steps below.

See paragraph 3 “**Technical requirements and installing the software**” for a list of supported cameras. 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 “**Add equipment**” (1) (You may have to scroll down).
2. Click in the “**Select device to add**” (2) box.
3. Select USB camera from the drop down list (3).
4. Wait while the list of connected USB cameras is updated.
5. Click in the “**Found devices**” (4) to get the drop-down list and select the desired camera
6. Click the “**Add equipment**” (5).
7. You can now select the video quality by clicking the “**Video quality**” (6) drop-down list and selecting the video quality you want.
8. The camera is activated by default. If you want to deactivate the camera later then uncheck the “**Active**” check box (8).
9. 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.

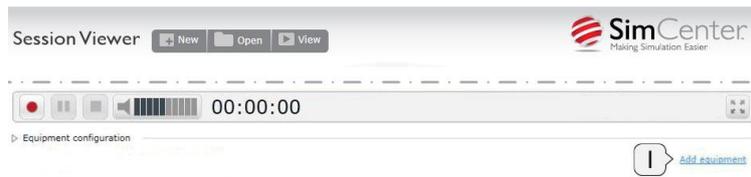


Figure 8 Add equipment starting point

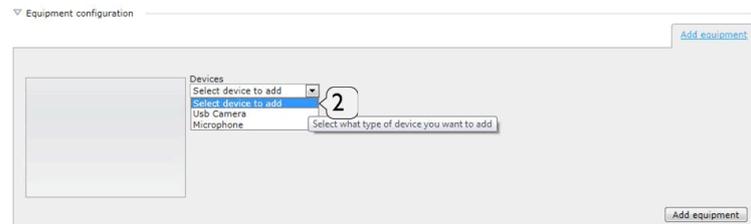


Figure 9 How to enable the drop-down list

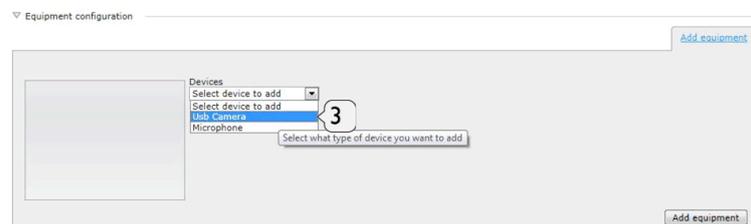


Figure 10 Drop-down list of possible type of equipment



Figure 11 USB Camera selected

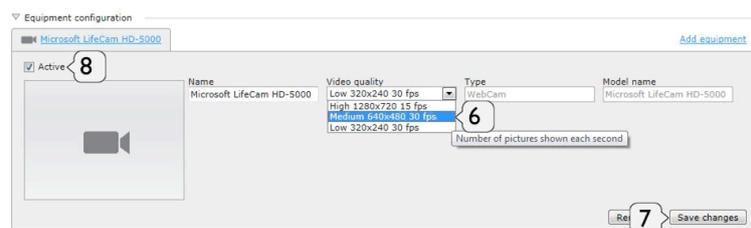


Figure 12 Video resolution selection

**Note!** The video frame rate will be depending on your PC's performance.

## 5.4 Adding a Patient Monitor

To add a Simulated Patient Monitor to Session Viewer, from the home screen follow the steps below.

1. From the Home screen click the **“Add equipment”** (1)
2. Click the in the **“Select equipment to add”** (2).
3. Select the Patient Monitor by clicking in the list window (3).
4. The search for a PM will start immediately
5. If more than one PM is found, select the right one in drop down box by clicking the control handle (5).
6. Press **“Add equipment”** (6).

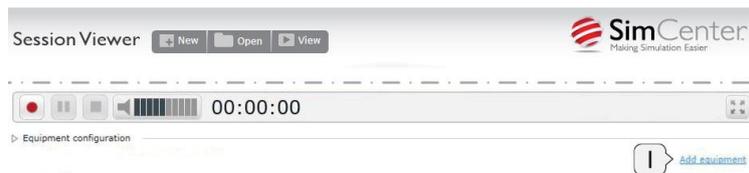


Figure 13

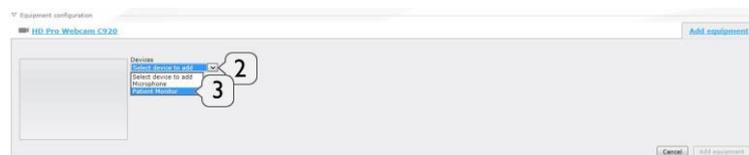


Figure 14



Figure 15



Figure 16

## 5.5 Adding a microphone

To add a microphone to the simulation setup, from the home screen follow the steps below:

1. From the Home screen click the **“Add equipment”** (1) (You may have to scroll down).
2. Click to enable the drop down menu (2) box.
3. Select Microphone from the drop down list (3).
4. Click the **“Add equipment”** (4)
5. The Microphone is active by default.
6. 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 Session Viewer only records in mono. On Figure 20 you can see the options, enable the drop down list (5) and select the option you want, then press save changes(6).

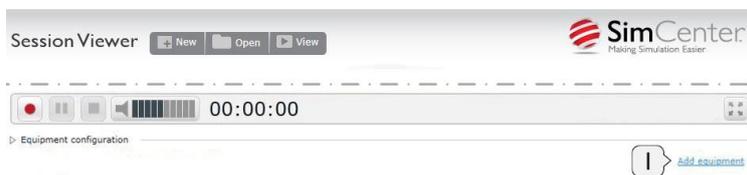


Figure 17 Add microphone or audio equipment

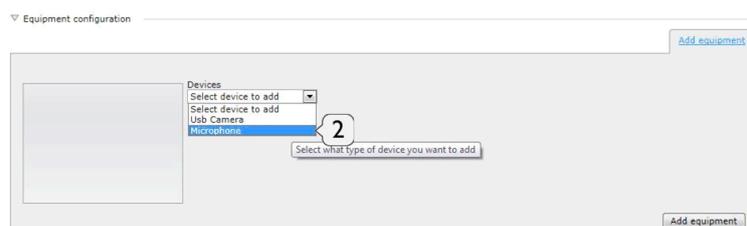


Figure 18 Select microphone

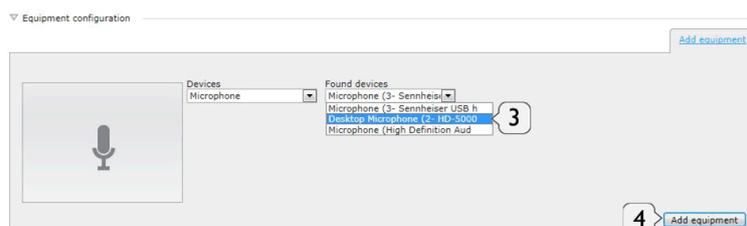


Figure 19 Select the wanted microphone

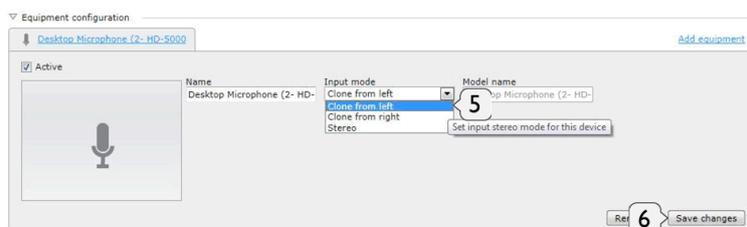


Figure 20 Microphone and audio options

## 5.6 Manual Video Recording

You can start a Video recording from the home window by pressing the red record button, input from USB camera, PM and audio will be recorded if they are activated.

**Note!** Only licensed versions can conduct manual or standalone recordings.

**Note!** The recording button is only active if a camera 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 due to resources used.

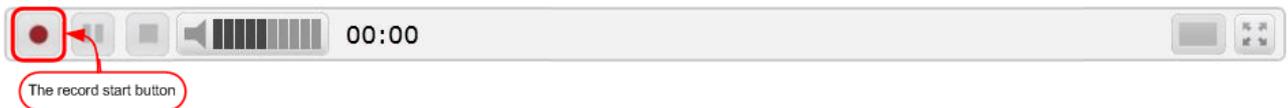


Figure 21 Start recording

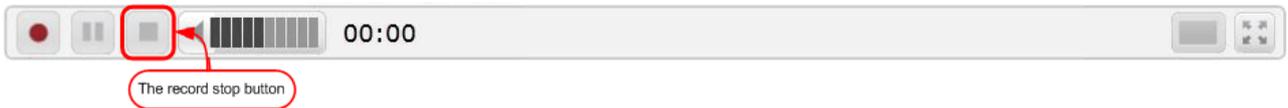


Figure 22 Stop recording

During recording you will see this in the top of the window:



Figure 23 During recording



Figure 24 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.

## 5.7 Debriefing

During debriefing you will be able to edit and add comments to the “Event log”.



Figure 25 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 26 to Figure 28.

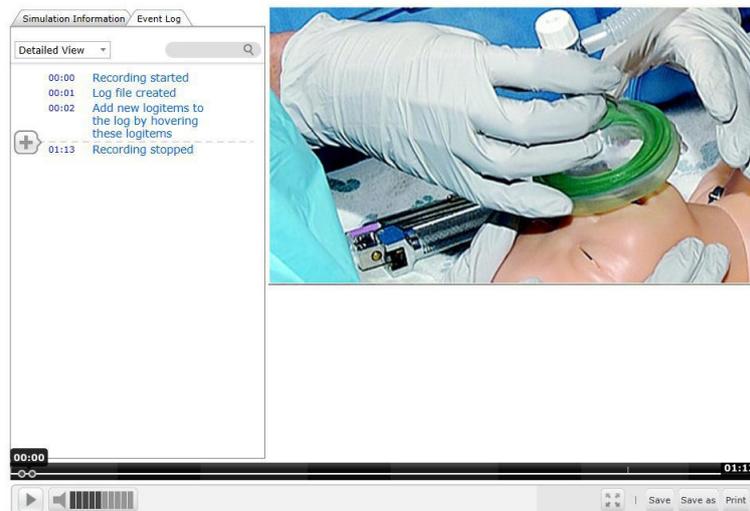


Figure 26 Hovering over the “Event log” to add comments.

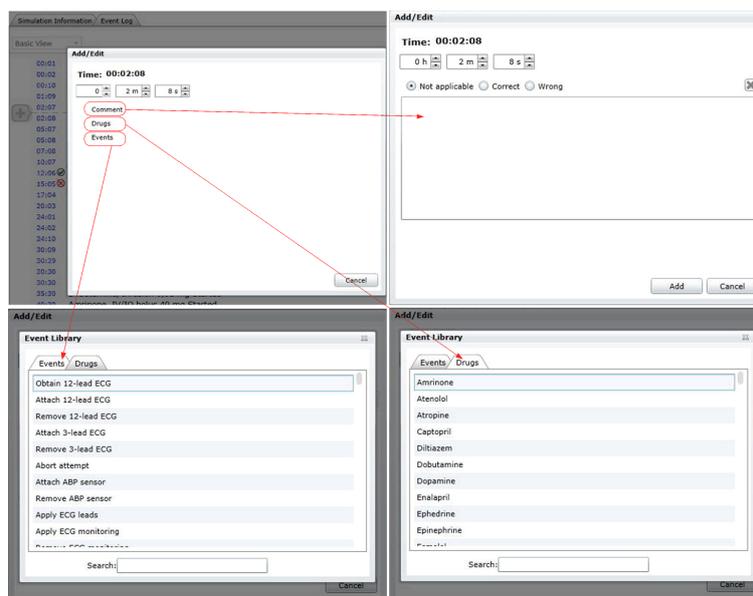


Figure 27 The four type of comments that can be added

After choosing an 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.

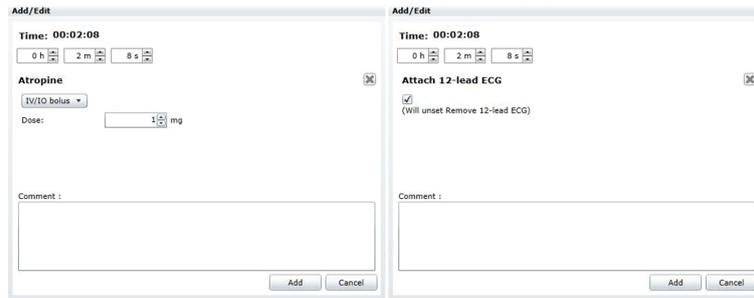


Figure 28 Adding a drug or event with comments

## 5.8 Saving or printing the recorded session

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 29 The control bar for print and save.

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

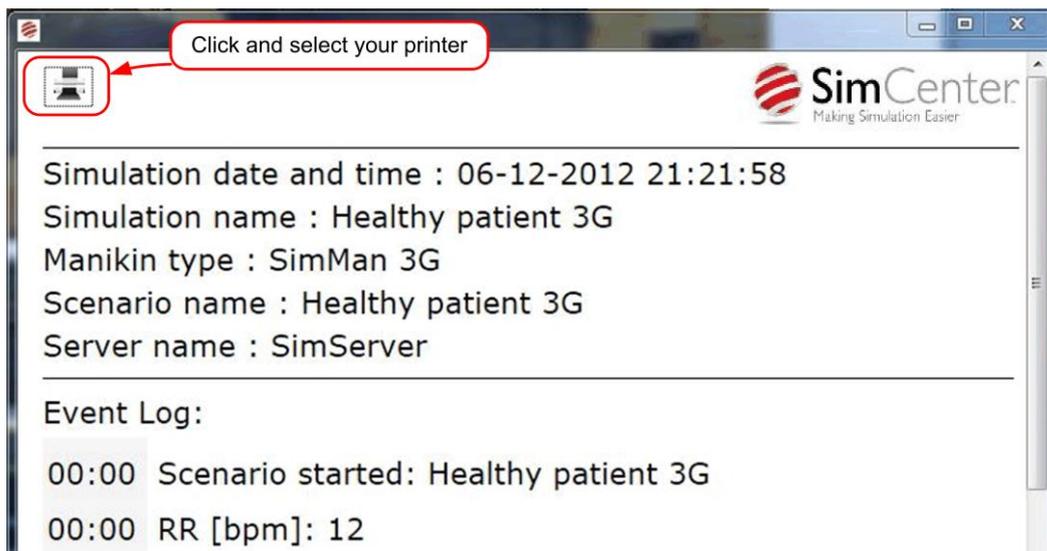


Figure 30 The HTML print window

## 6 Session Viewer used with LLEAP

### 6.1 All in one setup



Figure 1 One room setup, PC running LLEAP and Session Viewer PM on the external monitor.

The one room setup, here the room will be used for both training and debriefing; the PC runs all the necessary programs via LLEAP.

**Note!** The Session Viewer must be setup before starting a simulation, do this by starting the Session Viewer either from the LLEAP tile or from the “Start Menu”, see chapter 3.1

**Note!** The PC running the three applications (LLEAP Instructor, LLEAP Patient Monitor and SessionViewer) must meet the recommended specs in chapter 3.

### 6.2 Multiple PC setup

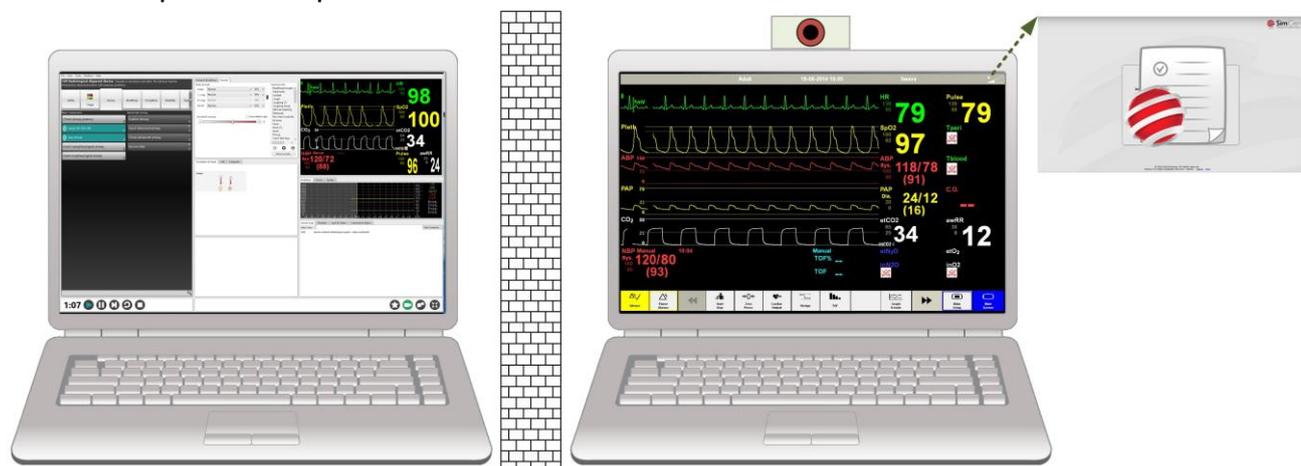


Figure 2 Two room setup

In the two room setup one PC is running LLEAP controlling the simulator, while remote controlling the PC in the simulation room. The secondary PC, in the training room runs Session Viewer and Patient Monitor; recording is controlled from the simulator in the control room.

The Patient Monitor will hide the Session Viewer, but this has no practical influence on the use as the Session Viewer will just do the recording during the session without live view.

The secondary PC, most likely the Simulated PM-PC, will open the Debriefing file when the session has

ended. Please Debrief from that PC or copy to an external media and play on another machine with SessionViewer installed. IE in a Lecture Hall.

## 6.2.1 Recording a session

### 6.2.1.1 Simulator controlled recording.

When recording via the simulator, the start and stop is controlled by the simulator interface and not on the Session Viewer.



The “Reserved” sign will be shown when a simulator is selected, but before the recording actually starts. When the simulation is started the sign will change to “Recording”.

The recording and later debriefing is solely controlled through the simulator; the debriefing will be shown on the PC running Session Viewer. This applies to both PC setups regardless of one or two is used..

### 6.2.1.2 Recording directly with the Session Viewer

If you want to make a recording without the use of the simulator, the Session Viewer controls are used. See chapter 5.6

## 6.2.2 Debriefing

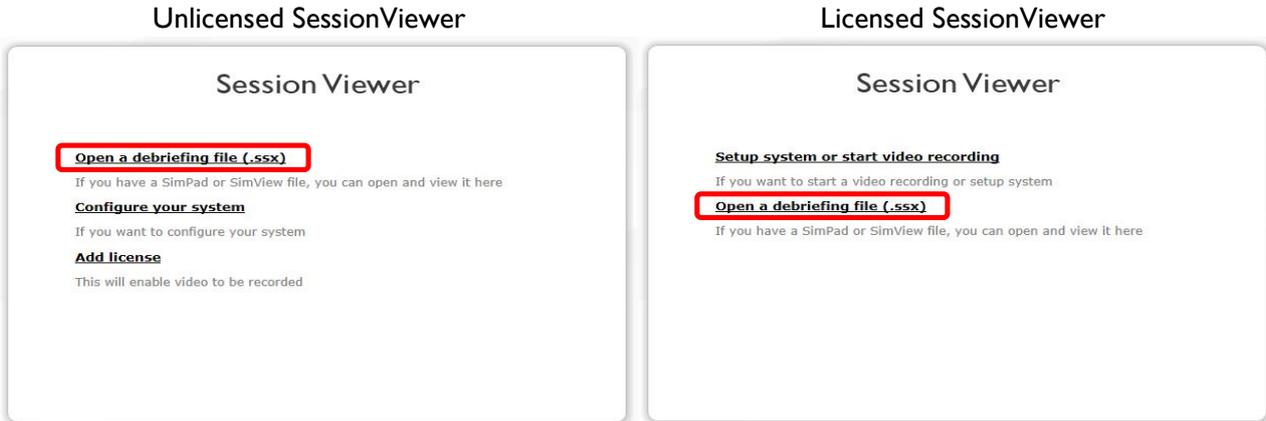
The debriefing works the same way as when using Session Viewer in stand-a-lone mode, and you have the same possibilities, editing, printing etc. See chapter 5.7 and 5.8.

## 7 Session Viewer used with SimPad

### 7.1 Manually Opening Debriefing Files from SimPad

#### 7.1.1 Opening the files

Select 'Open a debriefing file (.ssx)' Link and in the next window browse to your SimPad drive to open the debriefing file.



Alternatively, you can double click on the \*.ssx file from the file explorer from the PC with SessionViewer installed to open the file.

#### 7.1.2 Connecting to the SimPad

Session Viewer can read the simulation log files saved on a SimPad and show the Simulation Activity, with a SimPad connected to the PC via the USB cable. The function in Session Viewer 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

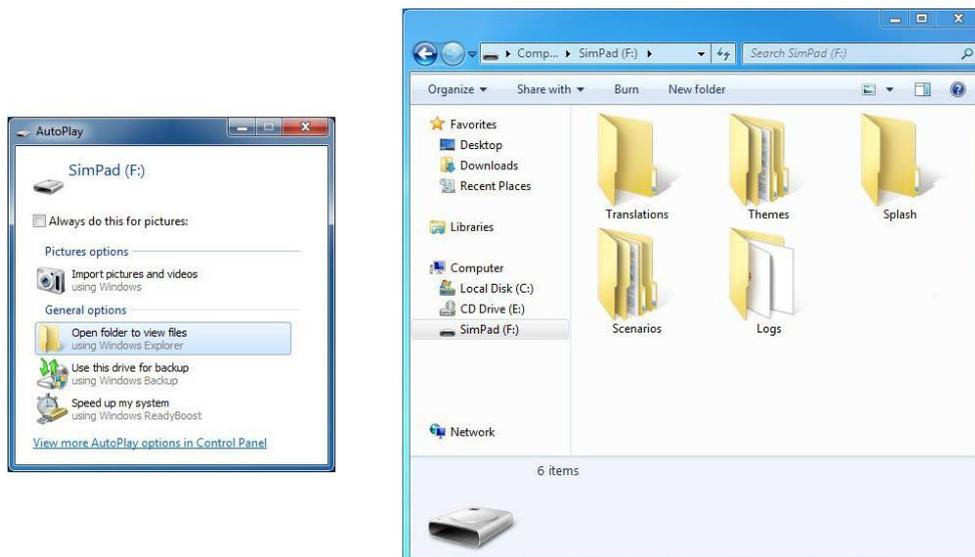


Figure 31

Open the “Logs” folder

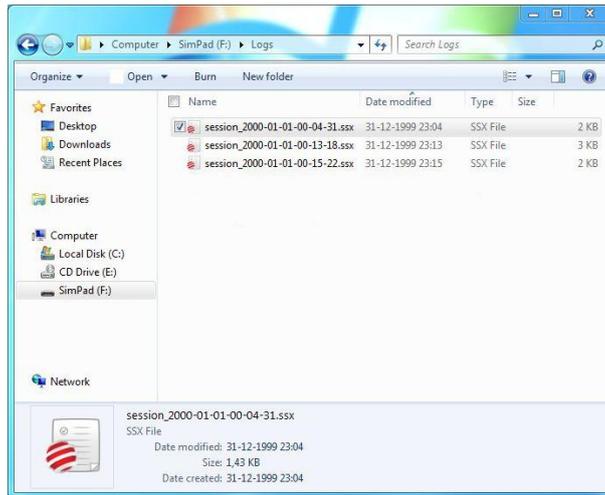


Figure 32

Select the file you want to look at and double click; Session Viewer 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.

### 7.1.3 Reviewing BLS result with Session Viewer

You can use Session Viewer to examine the BLS result made with the SimPad. You use the same method to open the file as with normal SimPad files the previous chapter.



Figure 33 BLS result shown in Session Viewer

### 7.1.4 Playback of the Debriefing Files

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



Figure 34 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.

#### 7.1.4.1 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” button and provide a folder and a name for the new file.



Figure 35 The Save, Save as, Print and Delete buttons.

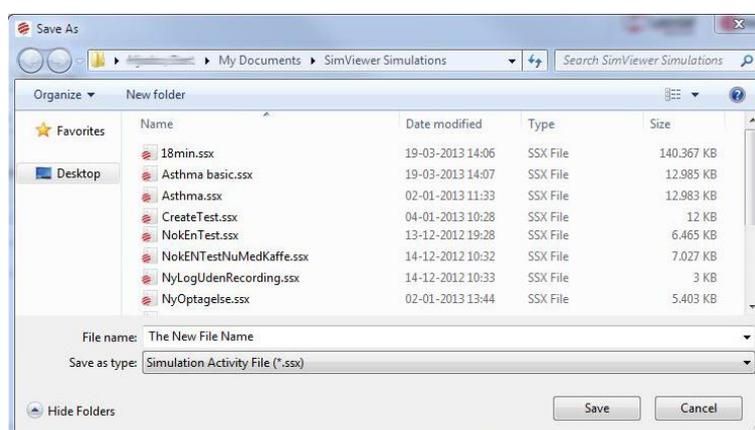


Figure 36 Saving the debrief file

The print button give the possibility to print the “Event log”.

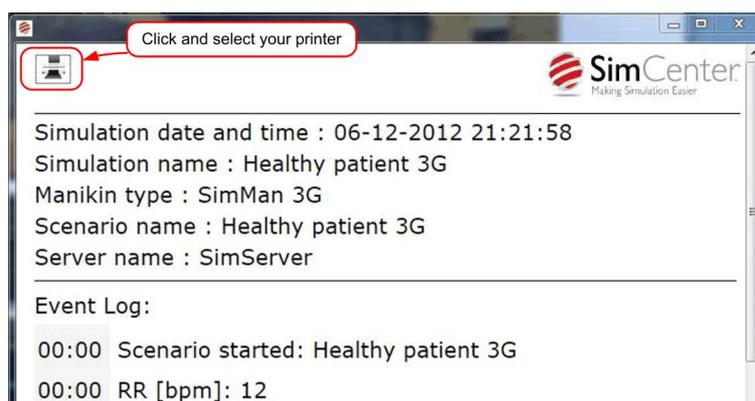


Figure 37 The print screen

## 7.2 Recording Using SimPad

A SimPad can be used to control the simulation recording, in a similar way as done with LLEAP. This requires version 5.7 or higher of SimPad remote and SimPad LinkBox software. Please note, for best results for integration, please update your SessionViewer software to the latest version.

In order to be able to record a SimPad simulation the LinkBox and SessionViewer PC *must* be on the same network. The network can be either a wired network, wireless network or a combination of both.

**Note!** Wireless networks can have some limitations depending upon the number of other devices that are connecting to, or using the wireless network. If you experience connectivity issues when recording from a wireless SimPad configuration, it could be because of bandwidth issues on the wireless network.

**Note!** SimPad will record with both Unlicensed and Licensed versions of SessionViewer.

### 7.2.1 Connection and & Configuration Diagrams

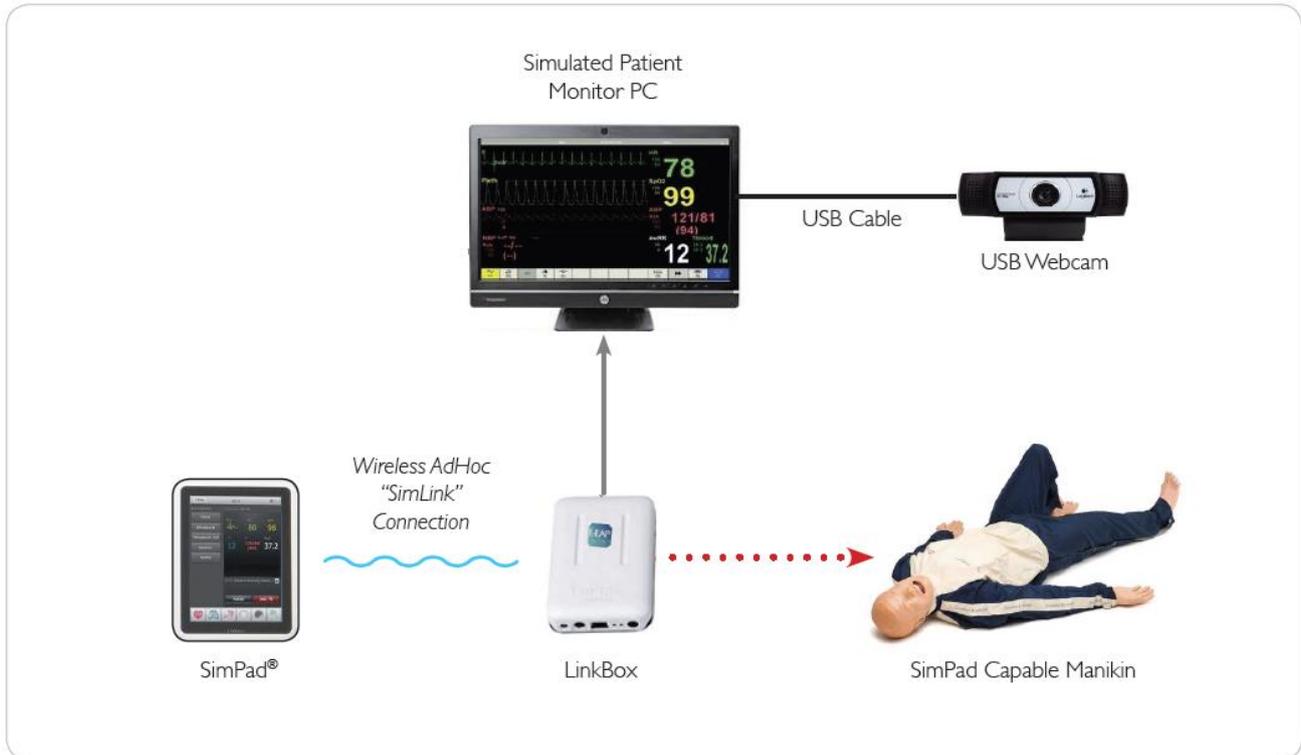
The two diagrams below will give a basic overview of how to connect the SimPad and SessionViewer PC in both a wireless and wired capacity. There are many more ways to connect your systems together, please contact your local Laerdal Technical Contact for assistance.

**Note!** These are basic diagrams to help understand the high-level connections required for proper functionality. Your setup and configuration might vary from these diagrams to accommodate local requirements or limitations.

**Note!** Please refer to the Linkbox and SimPad Direction for Use Manuals for instructions on configuring the network parameters.

### 7.2.1.1 Simulated Patient Monitor PC = SessionViewer PC

This setup will be the most common. The Simulated Patient Monitor-PC (PM-PC) will have LLEAP PM Software installed with a SimPad PM License activated and SessionViewer running in the background. Please reference Section 5 for help with configuring SessionViewer. When the session is ended from the SimPad, the Debrief File will open on the PM-PC to do bedside debriefing.



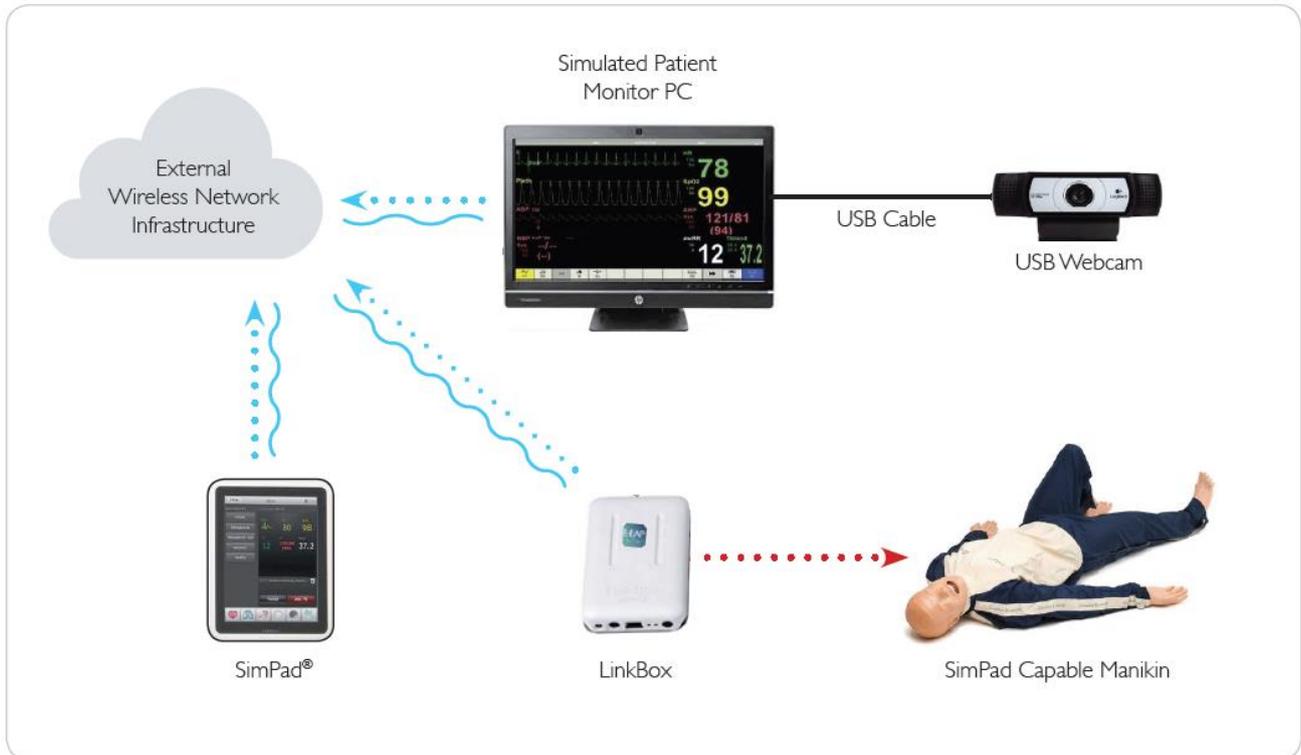
**Note!** It is recommended for a quick connection to set the PM-PC Ethernet NIC IP address to a static address of:

IP Address:	169.254.100.100
Subnet Mask:	255.255.000.000

**Note!** It is required to have a PM-PC that meets the Recommended Specifications in [Section 3](#) to run both LLEAP-PM and SessionViewer Software simultaneously.

### 7.2.1.2 External Wired/Wireless Network

This setup demonstrates how to connect to an external network such as: A consumer wireless router or the location network (wired/wireless) backbone. For this setup a DHCP service/server is required on the wireless network for the devices to communicate properly. It is recommended to reserve an IP addresses for each device or at least statically set the IP address on the PM-PC network NIC for quicker connectivity.



**Note!** Most consumer wireless routers only have four Ethernet ports. An additional gigabit switch would be needed to connect more than four devices.

**Note!** Wireless performance and distance will vary on the hardware selected and number of devices connected.

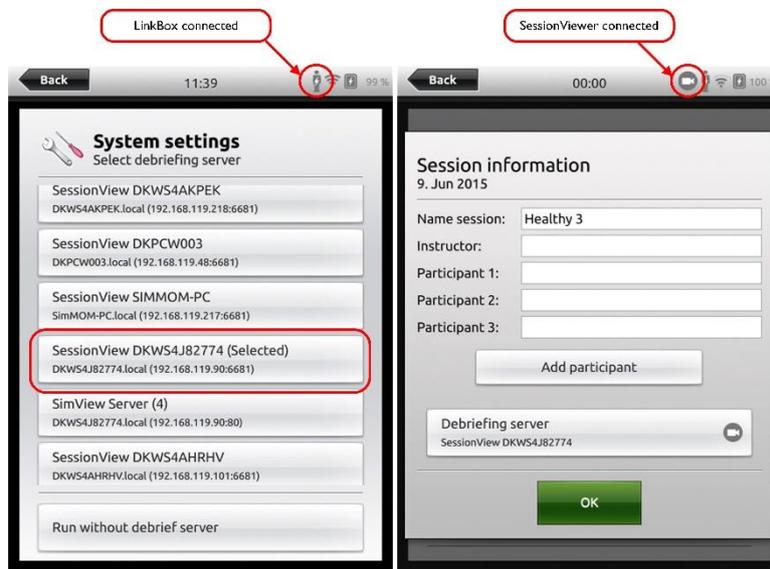
**Note!** The External Wireless Infrastructure ‘cloud’ above can either be: consumer equipment, Home Wireless Router and/or a desktop gigabit switch, OR it can be enterprise equipment, such as utilizing the locations wired/wireless network backbone. If the latter, the local IT department must be included when configuring and installing the devices.

### 7.2.2 Configure SimPad to Record

A SimPad can be used to control the simulation, in a similar way as done with LLEAP.

You can start, pause, resume, and stop the simulation from your SimPad. After connecting the SimPad to the LinkBox, you will be able to connect to SessionViewer, and control the simulation.

When you stop the simulation, the debriefing will start on the SessionViewer laptop. See the chapter on debriefing for more information.



Above is shown the connected SimPad and the setup screen for the session, below are the control screens on the SimPad. Whenever the simulation is in progress, the camera icon turns green.



When Session Viewer is connected to a SimPad it will show this drop-down:



## 8 Troubleshooting

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

A: Make sure you have selected the right microphone input – remove and re-add the microphone again. Also, make sure the Microphone devices is powered on and properly working (if applicable)

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

A: Ensure the USB Camera is connected properly. If you still have the error, please remove and re-add the camera, reference chapter 5.3 for assistance.

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

A: Reboot the SimView mobile system with the Audio input device attached. Either the Web cam or an external audio input.

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

A: Try stopping Session Viewer 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 Session Viewer on the PC no other programs, if you did not run other programs consider upgrading your PC.

Q: When I start SimView Mobile I see the loading screen, but it goes to a white screen?

A: Try cleaning/clearing the windows internet cache, from the internet settings menu

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