## Intended Use

The SimPad PLUS System is an easy-to-use, wireless tool that performs relevant medical simulation training, including debriefing, in various user settings. With its large, intuitive touch screen design, SimPad PLUS is a “Pick up and Play” experience, delivering simulation-based education, easily and efficiently.

There are two ways to control simulations: Automatic Mode and Manual Mode. This allows customized simulations to meet your specific needs.

The SimPad PLUS System is compatible with a broad range of Laerdal products including manikins, patient simulators, and task trainers as well as standardized patients.

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<table>
<thead>
<tr>
<th>Contents</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intended Use</td>
<td>2</td>
</tr>
<tr>
<td>SimPad PLUS Overview</td>
<td>4</td>
</tr>
<tr>
<td>Link Box PLUS Overview</td>
<td>5</td>
</tr>
<tr>
<td>SimPad PLUS Setup</td>
<td>6</td>
</tr>
<tr>
<td>Turn On SimPad PLUS</td>
<td>6</td>
</tr>
<tr>
<td>Status LED</td>
<td>7</td>
</tr>
<tr>
<td>Link Box PLUS Setup</td>
<td>8</td>
</tr>
<tr>
<td>Turn On Link Box PLUS</td>
<td>8</td>
</tr>
<tr>
<td>Status LED</td>
<td>9</td>
</tr>
<tr>
<td>SimPad PLUS Setup</td>
<td>10</td>
</tr>
<tr>
<td>Starting SimPad PLUS for the First Time</td>
<td>10</td>
</tr>
<tr>
<td>SimPad PLUS Configuration</td>
<td>11</td>
</tr>
<tr>
<td>Turn Off SimPad PLUS</td>
<td>12</td>
</tr>
<tr>
<td>Link Box PLUS Setup</td>
<td>13</td>
</tr>
<tr>
<td>WiFi Connection</td>
<td>13</td>
</tr>
<tr>
<td>Connection between SimPad PLUS and Link Box PLUS</td>
<td>14</td>
</tr>
<tr>
<td>Using Automatic Mode</td>
<td>15</td>
</tr>
<tr>
<td>Using Manual Mode</td>
<td>20</td>
</tr>
<tr>
<td>QCPR</td>
<td>28</td>
</tr>
<tr>
<td>Simulated Patient Monitor</td>
<td>33</td>
</tr>
<tr>
<td>Firmware</td>
<td>35</td>
</tr>
<tr>
<td>Options</td>
<td>36</td>
</tr>
<tr>
<td>Network</td>
<td>38</td>
</tr>
<tr>
<td>SimStore</td>
<td>42</td>
</tr>
<tr>
<td>Software</td>
<td>44</td>
</tr>
<tr>
<td>Vocal Sounds</td>
<td>45</td>
</tr>
<tr>
<td>Laerdal Li-Ion Battery</td>
<td>47</td>
</tr>
<tr>
<td>Features</td>
<td>49</td>
</tr>
</tbody>
</table>

For more information visit [www.laerdal.com/SimPad](http://www.laerdal.com/SimPad)
SimPad PLUS Setup

Turn On SimPad PLUS

LED starts flashing green

When charged, turn on by pressing On/Off button

A steady green LED indicates the device is ready to use

SimPad PLUS Setup

Status LED

SimPad PLUS Off and charging battery - flashing yellow light.

SimPad PLUS Off but battery charged - steady yellow light.

Starting and shutting down - flashing green light.

SimPad PLUS on - steady green light.

Low battery - flashing red light.

Error; needs service - steady red light. Contact your local Laerdal representative.
**Link Box PLUS Setup**

**Turn On Link Box PLUS**

- Turn on by pressing On/Off button
- Release the button when the LED starts flashing green

- A steady green LED indicates the device is ready to use

**Status LED**

The Power LED also indicates status.

- Charging batteries - flashing yellow light.
- Batteries charged - steady yellow light.
- Starting and shutting down - flashing green light.
- Link Box PLUS on - steady green light.
- Error, needs service - steady red light. Contact your local Laerdal representative.
SimPad PLUS Setup

Starting SimPad PLUS for the first time

The first time SimPad PLUS is turned on, follow the prompts to configure the device.

SimPad PLUS Configuration

Configuration can only be done when the simulator, manikin or task trainer is connected to SimPad PLUS.

Note

These configurations may be altered later.
**SimPad PLUS Setup**

**Turn Off SimPad PLUS**

---

**Link Box PLUS Setup**

**WiFi Connection**

Connected to a network - steady green light

Connected to a SimPad PLUS - steady blue light

---

Turn off by pressing On/Off button

Tap to shutdown SimPad and/or Simulator
System Setup

Connection between SimPad PLUS and Link Box PLUS
SimPad PLUS communicates with the Link Box PLUS using WiFi.

When the units are turned on for the first time they will set up an ad hoc network called SimLink.

If no other Link Boxes are visible on the default SimLink network, the SimPad PLUS will automatically connect to the Link Box PLUS. SimPad PLUS will remember the pairing and reconnect when the units are turned on again. If multiple Link Boxes are available, choose preferred Link Box PLUS.

The blue WiFi LED on the Link Box lights up when connected to SimPad.

A manikin symbol is indicated on SimPad when connected to the Link Box.

Using Automatic Mode

Overview of SimPad PLUS Home Screen

- Run pre-programmed Scenarios in Automatic Mode
- Select a log to facilitate debriefing with the Log Viewer
- Adjust display brightness, clock and more
- Register and synchronize with SimStore
Using Automatic Mode

Select Scenario

Select from Scenario menu

Tap for detailed information on Scenario

Add Instructor

Tap START to enter Session information

Add Participant

Tap OK when ready

Run Session

Time since Scenario was started

Patient status

Categories of interventions

Tap to log interventions and events

Last logged event

Tap to add comment

Scenarios

Pre-Installed SimStore scenarios

Acute Severe Asthma_English

Acute Severe Asthma_French

Acute Severe Asthma_German

Acute Severe Asthma_Italian

Acute Severe Asthma_Japanese

Acute Severe Asthma_Spanish

Last scenario used

Acute Severe Asthma_English
Using Automatic Mode

Change Parameters

End Session

Using Automatic Mode

Tap here to display more patient state information

Access to vital signs adjustments

Abnormal parameter values displayed here

Select other parameters to adjust

Tap menu to End session

End scenario

Display more or less information

Open current session log
Using Manual Mode

Select Theme

Select theme for simulation

Information about session entered here will be added to log

Folder of themes Tap to open

Tap to start session

Parameters Overview

Current state States

Flag indicates start state

White arrow indicates last activated state

Select other parameters to adjust

Pause session

Toggle On/Off shock activation

Time since current state was activated

Patient vital signs

Abnormal values

Collapse mini-log

End session

Register participant’s interventions

Time since Session started

Set transition time

The expanded state shows all parameters in the queue, ready to be activated

Tap to open state

Tap to show detailed State information, before activating

Tap to activate state
Using Manual Mode

Registering Interventions

Tap to register participant’s interventions

Time since scenario was started

Patient status

Tap to log interventions and events

Categories of interventions

Tap to add comment

Last logged event

Adjust Parameters Manually

Tap to adjust values (e.g. respiration rate)

For fine adjustments, hold finger over slider

Drag to adjust parameters

Activate the new value

Advanced Adjustments

Tap to set desired condition

Select a parameter from the menu

Update the currently open state
Using Manual Mode

Add New State to an Existing Theme

1. Tap to add new state to theme
2. Enter new state name
3. Confirm
4. Tap to save state to theme

New state is now ready

Tap x to delete

Tap and hold to arrange states

Create New State for an Existing Theme

Tap to access Circulation Menu

Select your desired parameter

New state visible

Tap to create a new state

New state visible
Using Manual Mode

Stopwatch

Tap time display to activate the Stopwatch

View log

Go to Log Viewer
Resume session
Tap to select new session
Toggle On/Off to view detailed log
Back to home screen

Note

Technical logs can be retrieved from Link Box PLUS for troubleshooting purposes.
QCPR

QCPR Feedback
When CPR is performed on a CPR capable manikin, SimPad PLUS displays real time CPR feedback.

Automatic Mode -
Tap to enlarge QCPR feedback

Manual Mode -
Tap to enlarge QCPR feedback

QCPR Log File
Debriefing mode provides an additional log file with data from CPR training.

Chest release
Compression depth
Full Session, with compressions and ventilations over time.
Compression rate
Ventilation volume

Tap to access log

Indicates two main findings from the CPR performance

Overall Score
91%
Advanced CPR performer

Try to obtain a ventilation volume between 400 - 700 ml
Make sure you compress deep enough
CPR settings can be adjusted to individual needs. Laerdal recommends using settings compliant with ILCOR guidelines.
Connect a Simulated Patient Monitor

Ensure the simulated Patient Monitor PC and the SimPad PLUS System are connected to the same network.

For more information on network connections, see Quick Setup Guide: Connecting the SimPad PLUS Patient Monitor to the SimPad PLUS System available at www.laerdal.com/downloads.

Using a direct network cable to connect the Link Box to the simulated Patient Monitor is recommended to minimize WiFi traffic.
Simulated Patient Monitor

Instructor Control of Simulated Patient Monitor

When the simulated Patient Monitor (optional item) is connected to SimPad PLUS, the instructor can toggle the display of vital signs.

Navigate to menu and select
Patient Monitor

Toggle On/Off vital signs

Patient Simulator Firmware Update

When Link Box PLUS is connected to a Patient Simulator with internal firmware (SimNewB, ALS Simulator, or SimJunior) the internal firmware will be automatically updated, if necessary.

From SimPad PLUS Home Screen, go to:
System Settings> About simulator> Force-update simulator firmware.

Session Viewer

Session Viewer is a free software solution that enables instructors or students to view debriefing from the SimPad PLUS System. Use Session Viewer to annotate, print and save the SimPad PLUS data log. Session Viewer also enables capture of audio and video from 1 HD USB web camera synchronized with the SimPad PLUS data log.

To download, visit www.laerdal.com/downloads
Options

Connect SimPad PLUS to a different Link Box PLUS
SimPad PLUS can only be connected to one simulator at a time. SimPad PLUS will try to re-establish a connection to the previous Link Box PLUS that it was connected to.

Select WiFi
Tap to connect SimPad to a different Link Box

Use SimPad PLUS without a Link Box PLUS
SimPad PLUS can be used with a standardized patient without connecting to the Link Box PLUS.

Select Standardized patient

Bluetooth
SimPad PLUS can also connect to bluetooth enabled simulators.
Connect to a Network

SimPad PLUS and Link Box PLUS are connected via SimLink (ad hoc network) by default.

SimPad PLUS and Link Box PLUS can also be connected in the following ways:

• Using a standard network cable
• On a wired Ethernet network
• On a WiFi network

Using a Standard Network Cable

Connect to Wired Ethernet Network

Connect SimPad PLUS and Link Box PLUS to network outlets. The network needs to have DHCP service.

Note

It is possible to be on a wired network and a WiFi network simultaneously.
Connect to a WiFi Network

1. Select WiFi

2. Choose the desired WiFi network from the list and enter the network password.

3. Note: Before moving Link Box PLUS to another WiFi network, ensure it is connected to SimPad PLUS with a network cable.

Connect to Another Network

1. Select Flight Mode (will disable WiFi)

2. Any other ad-hoc network can be created (optional).
SimStore is the place to find peer validated content to standardize simulation education. Unlock the full potential of SimPad PLUS manikins, education staff and students.

SimStore offers pre-programmed content mapped to clinical guidelines and developed by industry-leading experts. Reducing on-the-fly operation and using pre-programmed scenarios can help present a more realistic clinical encounter and increase a simulation investment.

To access, visit www.mysimcenter.com

Visit SimStore to find:
- Immediate online access to worldwide, validated content
- Standardized and repeatable training measures
- Easy search, find, and pay navigation
- Flexibility to purchase based on requirements

Register SimPad PLUS on SimStore
SimPad PLUS needs to be connected to a network in order to register with SimStore online. See Connect to a Network section.

SimPad PLUS can also be registered offline. SimPad PLUS will generate a device key. Register the device from a PC.

Synchronize SimPad PLUS with SimStore
After SimPad PLUS has been registered on SimStore, administration of the SimPad PLUS and purchasing Scenarios on SimStore must be done from a PC.

For more information visit www.mysimcenter.com
Theme Editor

Theme Editor is a PC software tool for creating themes for the SimPad PLUS system. It allows you to make new themes with states and interventions. Theme Editor can be downloaded from www.laerdal.com/themeeditor and be used offline.

SimDesigner

SimDesigner is a PC software tool for creating Scenarios for the SimPad PLUS System. It allows you to make new scenarios with states and Interventions. SimDesigner can be downloaded from www.laerdal.com/SimPad.

Transferring Logs, Themes and Scenarios to and from a PC

Connect SimPad PLUS to the PC using the included USB cable.

- Save new Scenarios in the Scenarios folder.
- Save new Themes in the Themes folder.
- Upload logs from the Logs folder.
- Disconnect the USB cable from the SimPad PLUS when transfers are finished.

Note

If SimPad PLUS is turned off, the battery can be charged from the USB connection.

Headset

Create two-way communication between the operator and simulator by connecting a headset.

Plug headset into SimPad

The headset microphone will be routed to the manikin

Note

The headset output on the Link Box duplicates the sound to the manikin. It can be used to improve the sound by adding additional speakers around the manikin.

Vocal Sounds

Vocal sounds from the Patient Simulator such as crying, moaning etc. can be activated from the SimPad PLUS directly or via Themes and Scenarios.

For more information about vocal sounds and to create user defined vocal sounds see Feature section.
Auxillary Button

The Auxillary Button on SimPad PLUS can be configured in Manual Mode or Automatic Mode preferences to enable and disable input from the headset.

Note

When SimPad PLUS is used wirelessly there is a short voice delay.

Configure the Auxillary Button

Press and hold to speak
(In default Activate microphone mode)

Press and hold to speak
(In default Activate microphone mode)

Batteries are discharged independently

Remaining battery capacity

Connect Two Laerdal Li-Ion Batteries

Press and hold to mute

Press and hold to speak

Return to Session Overview

Device information

Tap to view

Device information

Connect to another simulator
**Laerdal Li-Ion Battery**

**Charge Batteries**

The batteries can be charged through the Link Box PLUS when the power is turned off and the Link Box PLUS is connected to the AC adapter. See Quick Setup Guide - Charging Batteries.

**WARNINGs**
- Do not use the Laerdal Li-Ion Battery for other purposes than specified.
- Use only the AC charger adapter supplied with the product.
- Do not use the battery in temperatures above what is specified in this User Guide or Important Product Information.
- Do not heat or incinerate.
- Do not crush the battery.
- Do not short circuit the battery contact.
- Do not immerse in water.
- The battery must be recycled and disposed of in accordance with local rules.
- Do not handle damaged or leaking Li-Ion batteries.

**Features**

SimPad PLUS System has the same ECG library as SimMan 3G and other Laerdal simulators. The available rhythms and rhythm parameters may vary from simulator to simulator.

**Available ECG in SimPad PLUS System**

<table>
<thead>
<tr>
<th>Basic Rhythms</th>
<th>Rates Adult and Child</th>
<th>Rates Infant</th>
<th>Extra-systoles</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sinus</td>
<td>20 – 200</td>
<td>20 – 240</td>
<td>PVC</td>
</tr>
<tr>
<td>WPW</td>
<td>20 – 200</td>
<td>20 – 240</td>
<td>PVC RonT</td>
</tr>
<tr>
<td>Hyperkalemia</td>
<td>20 – 200</td>
<td>20 – 240</td>
<td>PAC/PJC</td>
</tr>
<tr>
<td>Long QT</td>
<td>20 – 200</td>
<td>20 – 240</td>
<td></td>
</tr>
<tr>
<td>Ischemia</td>
<td>20 – 200</td>
<td>20 – 240</td>
<td></td>
</tr>
<tr>
<td>Inferior AMI, ST elevation</td>
<td>20 – 200</td>
<td>20 – 240</td>
<td></td>
</tr>
<tr>
<td>Left Bundle Branch Block (LBBB)</td>
<td>20 – 200</td>
<td>20 – 240</td>
<td></td>
</tr>
<tr>
<td>Right Bundle Branch Block (RBBB)</td>
<td>20 – 200</td>
<td>20 – 240</td>
<td></td>
</tr>
<tr>
<td>Atrial Tachycardia (Atach.)</td>
<td>140 – 260</td>
<td>90 – 320</td>
<td></td>
</tr>
<tr>
<td>Supra Vent. Tachycardia (SVT)</td>
<td>140 – 260</td>
<td>90 – 320</td>
<td></td>
</tr>
<tr>
<td>Atrial Flutter</td>
<td>75, 100, 150</td>
<td>75, 100, 150</td>
<td></td>
</tr>
<tr>
<td>Atrial Fibrillation (Afib.)</td>
<td>50 – 240</td>
<td>50 – 240</td>
<td></td>
</tr>
<tr>
<td>Junctional</td>
<td>40 – 220</td>
<td>40 – 220</td>
<td></td>
</tr>
<tr>
<td>1° AV-Block</td>
<td>20 – 135</td>
<td>20 – 135</td>
<td>PVC R/T</td>
</tr>
<tr>
<td>2° AV Block type #1</td>
<td>3:2, 4:3, 5:4</td>
<td>3:2, 4:3, 5:4</td>
<td>PAC/PJC</td>
</tr>
<tr>
<td>2° AV Block type #2</td>
<td>2:1, 3:2, 4:3</td>
<td>2:1, 3:2, 4:3</td>
<td></td>
</tr>
<tr>
<td>3° AV Block</td>
<td>10 – 50</td>
<td>20 – 100</td>
<td></td>
</tr>
<tr>
<td>Ventricular Tachycardia (VT)</td>
<td>120 – 240</td>
<td>120 – 320</td>
<td></td>
</tr>
<tr>
<td>Torsade de pointes</td>
<td>180</td>
<td>180</td>
<td></td>
</tr>
<tr>
<td>Idioventricular</td>
<td>10 – 100</td>
<td>14 – 100</td>
<td></td>
</tr>
<tr>
<td>Ventricular Fibrillation (VF)</td>
<td>0.1 – 1 mV</td>
<td>0.1 – 1 mV</td>
<td></td>
</tr>
<tr>
<td>Asystole</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ventricular Standstill</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ventricular Pacemaker</td>
<td>50 – 150</td>
<td>50 – 150</td>
<td></td>
</tr>
</tbody>
</table>
### Blood Pressure

**Blood Pressure**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure range</td>
<td>Systolic 0-300 mmHg / Diastolic 0-200 mmHg</td>
</tr>
<tr>
<td>Accuracy</td>
<td>+/- 4 mmHg</td>
</tr>
<tr>
<td>Calibration</td>
<td>Pressure sensor must be calibrated to sphygmomanometer. See Preferences menu.</td>
</tr>
<tr>
<td>Pulse Available pulses</td>
<td>Carotid, Brachial, Radial and Umbilical (SimNewB) Only 3 pulses can be palpated simultaneously (Power considerations).</td>
</tr>
<tr>
<td>Palpated BP</td>
<td>Radial pulse turns off at systolic BP Brachial pulse turns off at 20 mmHg, to prevent noise generation in auscultation area.</td>
</tr>
</tbody>
</table>

#### Default Blood Pressures (mmHg)

<table>
<thead>
<tr>
<th>Manikin</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adult</td>
<td>120/80</td>
</tr>
<tr>
<td>Child</td>
<td>100/70</td>
</tr>
<tr>
<td>Infant</td>
<td>60/40</td>
</tr>
</tbody>
</table>

**Blood Pressure**

- Adult pulses are automatically adjusted to BP as follows:
  - **Systolic BP**
    - >= 88: Normal
    - < 88: Normal, Weak
    - < 80: Normal, Absent
    - < 70: Weak, Absent
    - < 60: Absent, Absent

- Infant pulses are automatically set to absent when Systolic BP is below 10 mm Hg. Otherwise infant pulses are normal.

**Heart Sounds**

Heart sounds are synchronized to ECG.

<table>
<thead>
<tr>
<th>Heart Sounds</th>
<th>Adult Manikin</th>
<th>Child Manikin</th>
<th>Infant Manikin</th>
</tr>
</thead>
<tbody>
<tr>
<td>Normal</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aortic Stenosis</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Austin Flint Murmur</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mitral Valve Prolapse</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Systolic Murmur</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diastolic Murmur</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Friction Rub</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Opening Snap @70 msec</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stills Murmur</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Atrial Septal Defect (ASD)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ventricular Septal Defect (VSD)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pulmonary Stenosis</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Lung Sounds**

Lung sounds are synchronized to breathing rates, adjustable from 0 – 60 breaths per minute.

<table>
<thead>
<tr>
<th>Lung Sounds</th>
<th>Adult Manikin</th>
<th>Child Manikin</th>
<th>Infant Manikin</th>
</tr>
</thead>
<tbody>
<tr>
<td>Normal Breath Sounds</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fine Crackles</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Coarse Crackles</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pneumonia</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wheeze</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stridor</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pleural Rub</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rhonchi</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Features

Bowel Sounds

<table>
<thead>
<tr>
<th>Bowel Sounds</th>
<th>Adult Male</th>
<th>Adult Female</th>
<th>Child Manikin</th>
<th>Infant Manikin</th>
</tr>
</thead>
<tbody>
<tr>
<td>Normal</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Borborygmus</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Hyperactive</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Hypoactive</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Fetal Normal 140 BPM</td>
<td>•</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fetal Brady 100 BPM</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fetal Tachy 200 BPM</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No sound</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
</tbody>
</table>

Vocal Sounds

Vocal sounds are adjusted for age and gender of manikin.

<table>
<thead>
<tr>
<th>Male Manikin</th>
<th>Female Manikin</th>
<th>Child Manikin</th>
<th>Infant Manikin</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vomit</td>
<td>Vomit</td>
<td>Vomit</td>
<td>Cry</td>
</tr>
<tr>
<td>Cough</td>
<td>Cough</td>
<td>Cough</td>
<td>Cough</td>
</tr>
<tr>
<td>Moan</td>
<td>Moan</td>
<td>Moan</td>
<td>Content</td>
</tr>
<tr>
<td>SOB Breathing</td>
<td>SOB Breathing</td>
<td>SOB Breathing</td>
<td>Hiccups</td>
</tr>
<tr>
<td>Scream</td>
<td>Scream</td>
<td>Scream</td>
<td>Scream</td>
</tr>
<tr>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>No</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
</tbody>
</table>

Sound format for user defined sound files must be raw format 16KHz, 16 bits signed, little endian.