

Register SimPad PLUS in SimCapture

1. Open SimCapture on a computer.
2. Log in.

Once logged in to SimCapture
click on the cog wheel

The screenshot shows the SimCapture web interface. On the left is a navigation menu with categories like Configuration, Users & Security, and Recording & Sessions. The 'Applications' link under 'Recording & Sessions' is highlighted. The main content area is titled 'System Setup' and contains a 'Register' form. The form has a 'Settings' section with the following fields: 'Application Name' (containing 'SimPad-001043'), 'Token' (containing 'ZRE9UL'), 'Owner' (a dropdown menu showing 'SW&S Technical Tech'), and 'Recording Device' (a dropdown menu showing 'Capture Node EU'). Each field has a small text prompt. To the right of the form is a 'Save' button. A red line points from the 'Save' button to the word 'Save' in the text to the right. Another red line points from the 'Token' field to the text 'Type in the code displayed on the SimPad PLUS'.

Type in the code displayed
on the SimPad PLUS

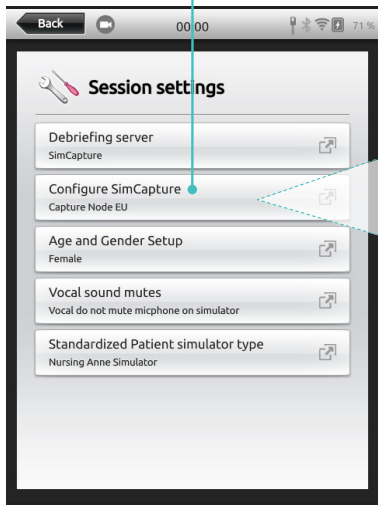
Click on Applications

Tap OK on the SimPad PLUS

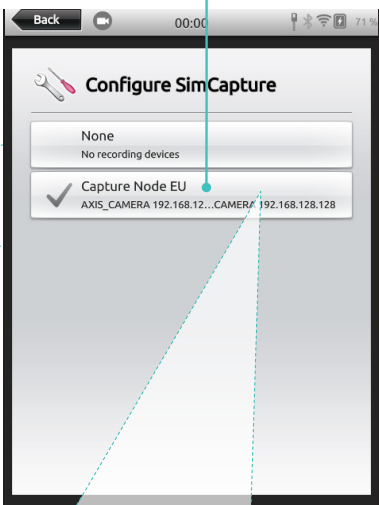
The screenshot shows a mobile device screen with a 'Session information' dialog box. The dialog box has a title bar with a wrench icon and the text 'Session information' and 'Select debriefing server'. The main text inside the dialog box says: 'Please use token to register device at SimCapture. ZRE9UL. Click OK when application have been registered into SimCapture.' Below this text is a green 'OK' button. At the bottom of the screen, there are three buttons: 'Use manual added server', 'SimCapture (SimPad not registered) By B-Line Medical' (with a logo), and 'Run without debrief server' (with a checkmark icon). A red line points from the 'OK' button in the dialog box to the text 'Tap OK on the SimPad PLUS'.

SimCapture Setup

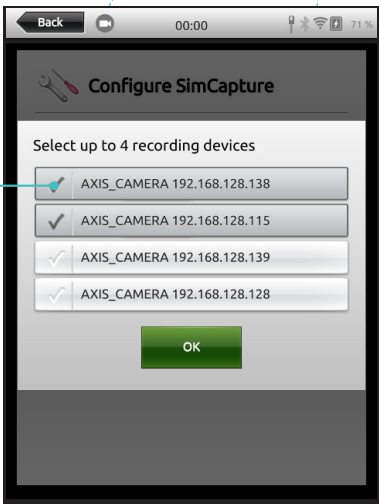
Select Configure SimCapture



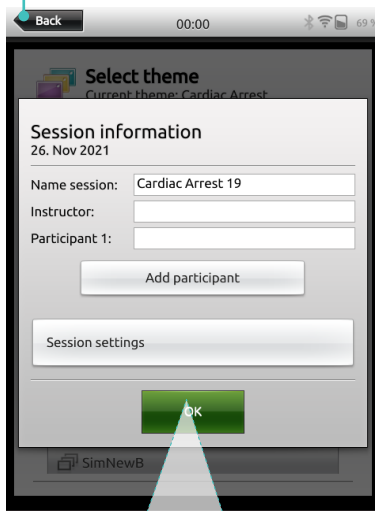
Select your recording location



Select your recording cameras



Select Back until the Session information screen is displayed.



Start a session and see the recording icon turn green when cameras start recording



Note

When ending the session the logfiles will automatically be uploaded to your SimCapture account and merged with the video recording.

SimPad PLUS - Options

Connect SimPad PLUS to a different Link Box PLUS

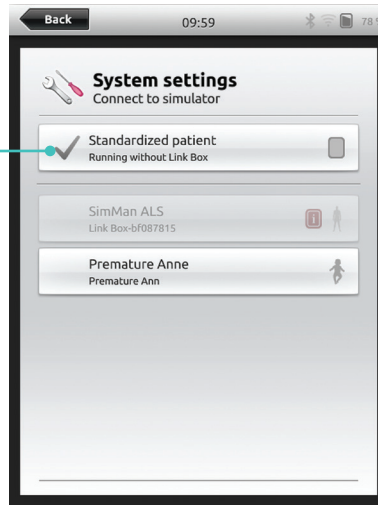
SimPad PLUS can only be connected to one simulator at a time. SimPad PLUS will try to re-establish a connection to the previous Link Box PLUS that it was connected to.



Use SimPad PLUS without a Link Box PLUS

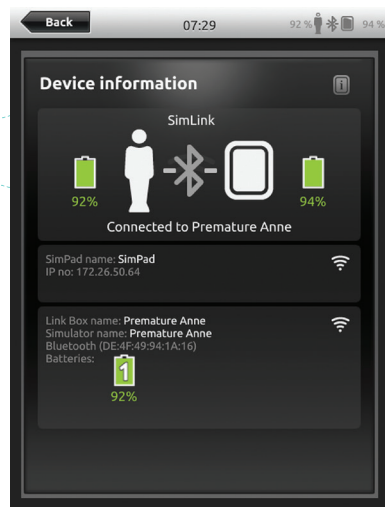
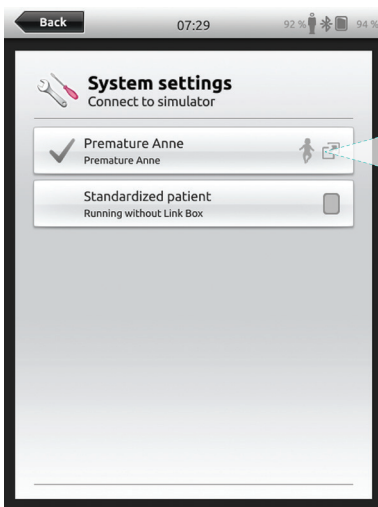
SimPad PLUS can be used with a standardized patient without connecting to the Link Box.

Select Standardized patient



Bluetooth

SimPad PLUS can also connect to Bluetooth enabled simulators.



SimPad PLUS - Network

Connect to a Network

All models of SimPad PLUS and Link Box PLUS are WiFi connected via SimLink (ad hoc network) by default. It is recommended to change it to a more suited network.

They 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



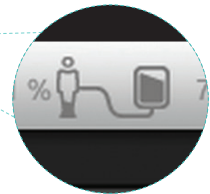
Connect to Wired Ethernet Network



Note

It is possible to be on a wired network and a WiFi network simultaneously. The network needs to have DHCP service.

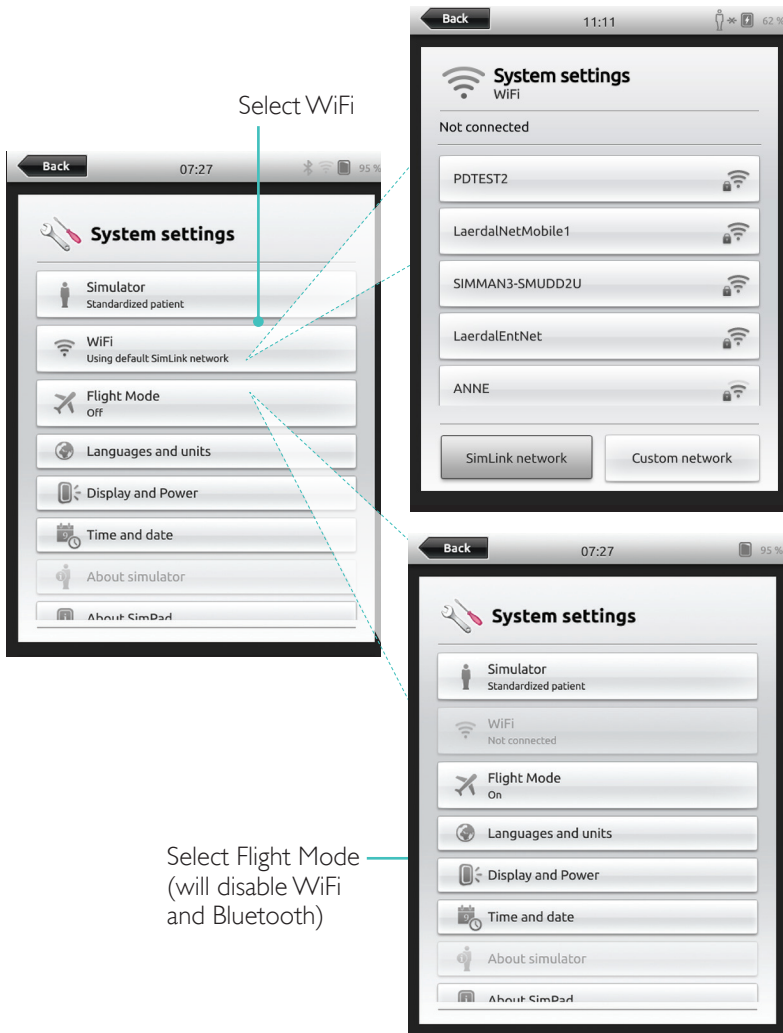
Connect SimPad PLUS and Link Box PLUS to network outlets.



Connection by wire

SimPad PLUS - Network

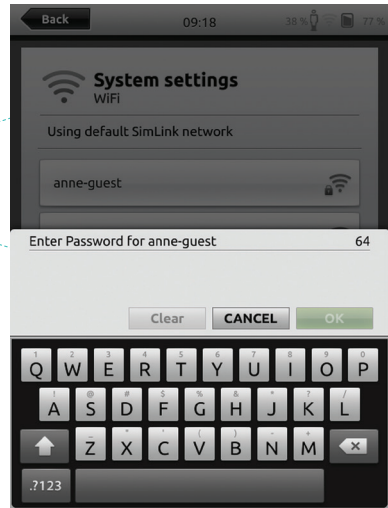
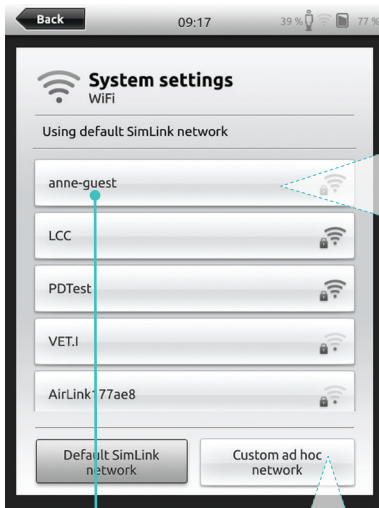
Connect to a WiFi Network



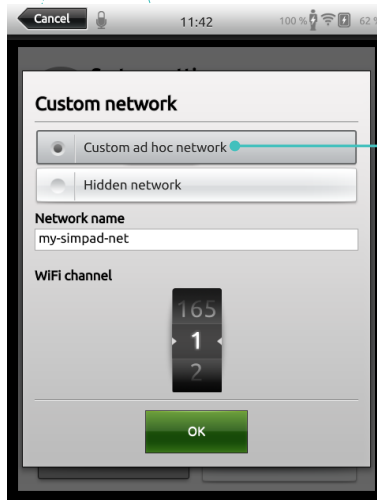
Note

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

Connect to Another Network



Select the desired WiFi network from the list and enter the network password



Any other ad-hoc network can be created (optional)

SimPad PLUS - Software

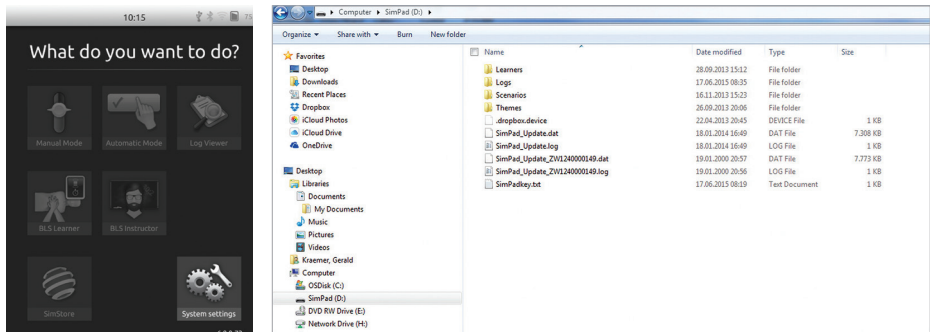
Update SimPad PLUS

Go to laerdal.com/simpadplus and check the Download section to find:

- Firmware updates, both via WiFi and USB
- Theme editor, to create new themes with states and interventions for the SimPad System.
- SimDesigner, to create new scenarios with states and interventions for the SimPad System.

Transferring Logs, Themes and Scenarios to and from a PC

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

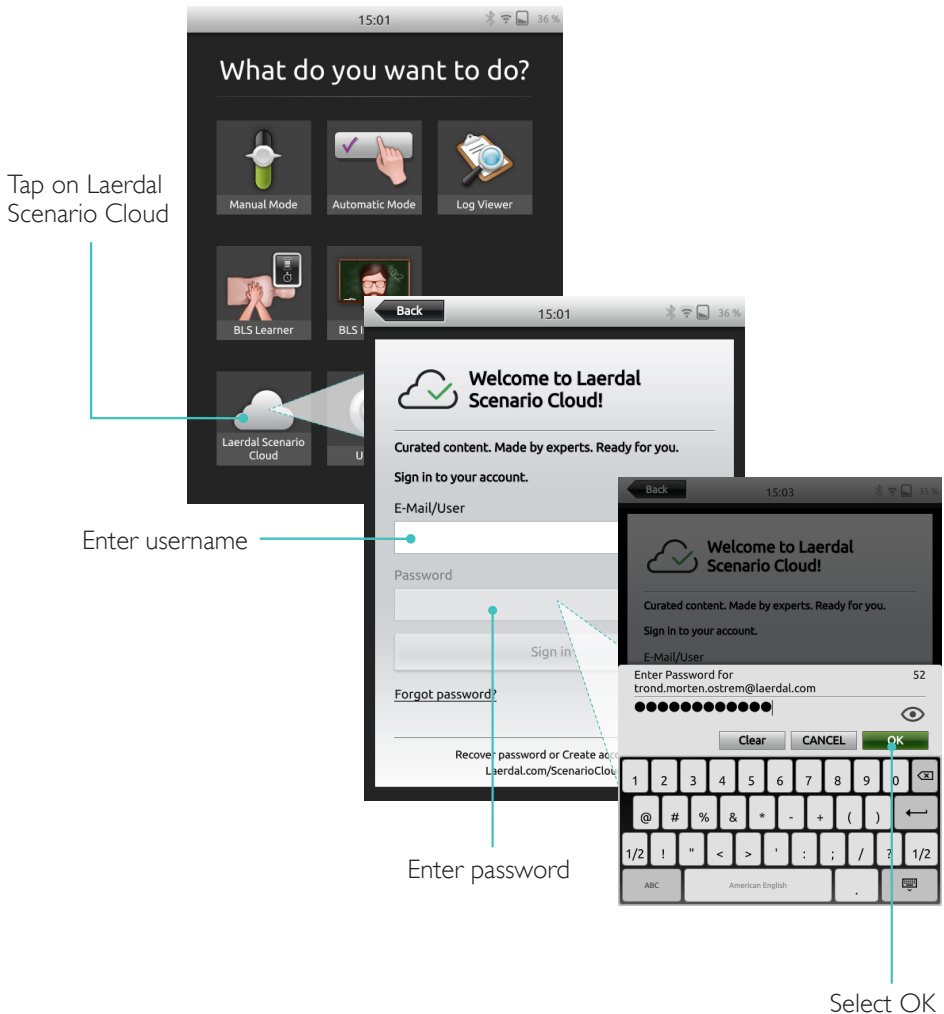


- Save new Scenarios in the Scenarios folder.
- Save new Themes in the Themes folder.
- Upload logs from the Logs folder.
- To safely disconnect SimPad PLUS, right click the SimPad PLUS drive and select Eject before removing the USB cable.

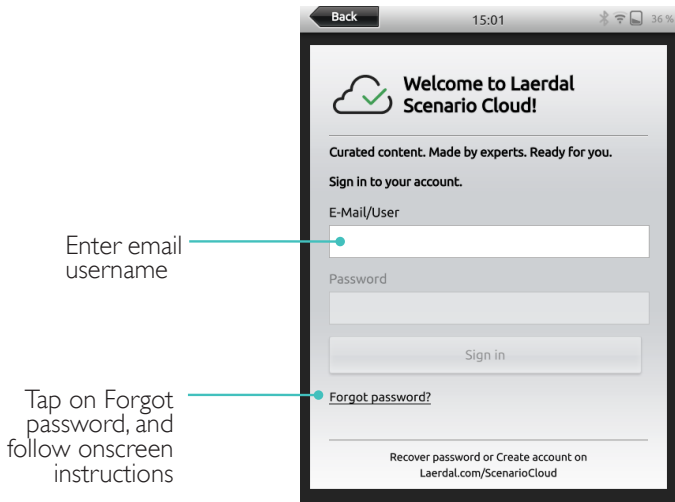
Laerdal Scenario Cloud

Laerdal Scenario Cloud is an online repository for curated Laerdal simulation scenarios. Sign up at <https://scenariocloud.laerdal.com/>

Log into Laerdal Scenario Cloud



Password Reset

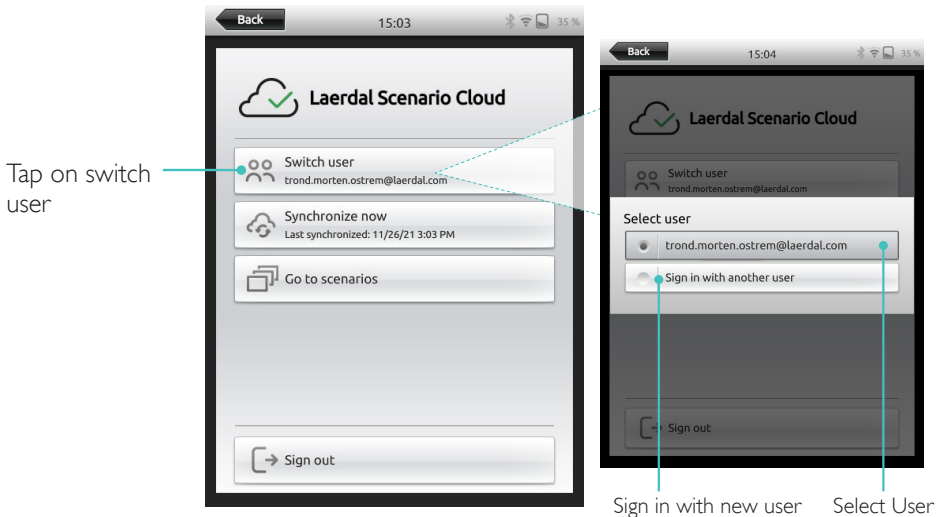


Note

You will be sent an email to complete the password reset process. Check the inbox for the reset e-mail.

Switch User

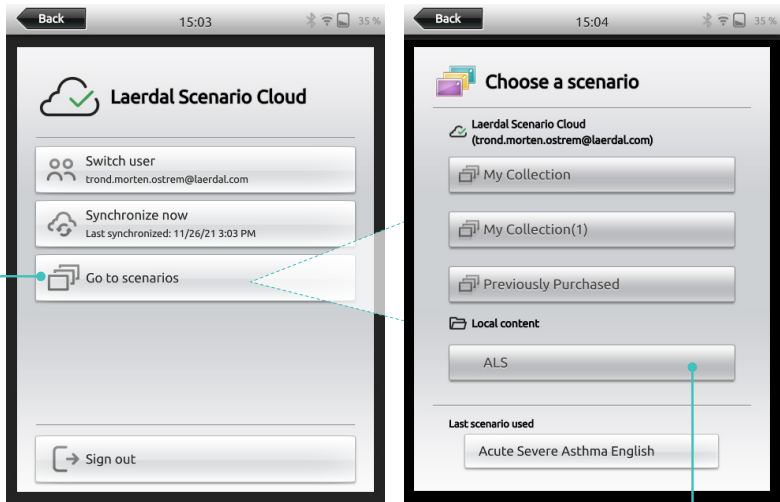
It is possible to change users in Laerdal Scenario Cloud.



Choose A Scenario

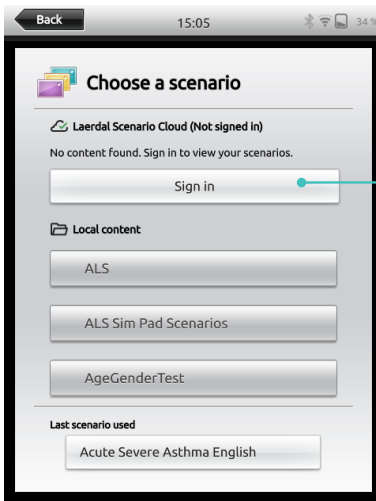
Laerdal Scenario Cloud has a collection of scenario ready to use.

Tap to open the scenario collections



Files uploaded from the computer via USB

Log in to Laerdal Scenario Cloud from Automatic mode



Sign in to Laerdal Scenario Cloud

Content will be synchronized with your online collections found in <https://scenariocloud.laerdal.com/myscenarios/>

Sounds

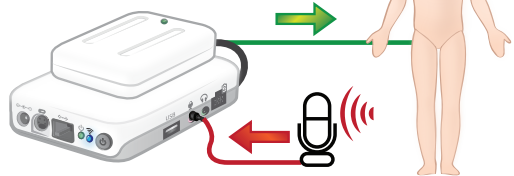
Headset

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

Plug headset into SimPad PLUS



The headset microphone will be routed to the manikin



■ = From instructor to manikin

■ = From manikin (separate microphone) to instructor.



Note

- The headset output on the Link Box PLUS duplicates the sound to the manikin. It can be used to improve the sound by adding additional speakers around the manikin.
- Some simulators have an internal microphone, and don't require a Link Box W setup.

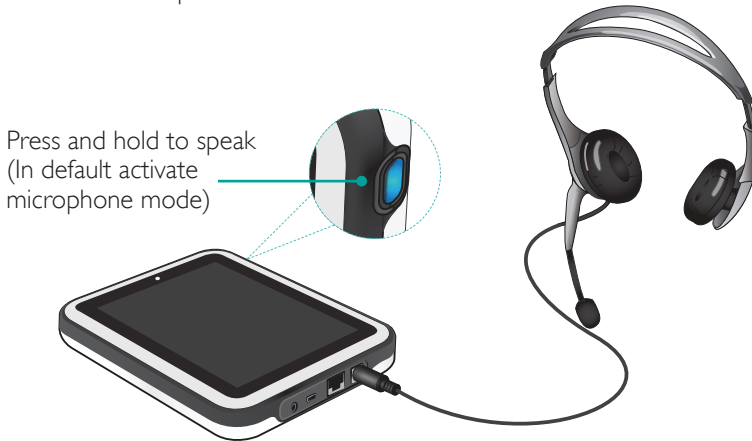
Vocal Sounds 5.6.5.

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.

Auxiliary Button

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



Note

When the device is used wirelessly there will be a short voice delay.

SimPad PLUS - Laerdal Li-Ion Battery

Connect Two Laerdal Li-Ion Batteries



Batteries are discharged independently



Remaining battery capacity

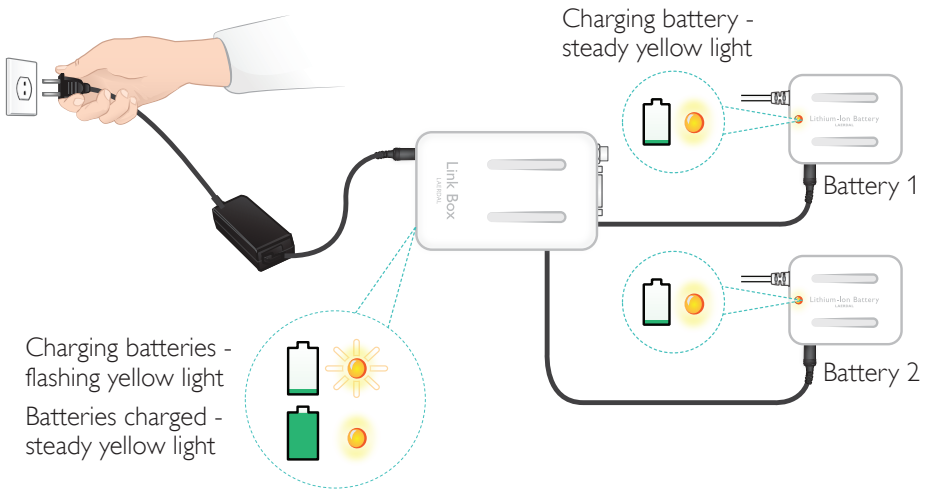
Charge Batteries

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.



Note

- The AC Adapter can only be used with SimPad PLUS and Link Box.
- For more information about Charging Batteries see Quick Setup Guide.



Note

Cannot use USB to charge

⚠ 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.
- Do not leave device in sleeve when charging.
- Do not leave battery drained. Recharge before storage.

Features

The available rhythms and rhythm parameters may vary from simulator to simulator.

Available ECG in SimPad PLUS System 5.6.

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

Blood Pressure

Blood Pressure			
Pressure range	Systolic: 0-300 mmHg / Diastolic 0-200 mmHg 5.6.3.e.		
Accuracy	+/- 4 mmHg		
Calibration	Pressure sensor must be calibrated to sphygmomanometer: See Preferences menu.		
Pulse 5.6.3.c.			
Available pulses	Carotid, Brachial, Radial and Umbilical (SimNewB) Only 3 pulses can be palpated simultaneously. (Power considerations).		
Palpated BP	Radial pulse turns off at systolic BP. Brachial pulse turns off at 20 mmHg, to prevent noise generation in auscultation area.		
Default	Adult Manikin	Child Manikin	Infant Manikin
Default Blood Pressures (mmHg)	120/80	100/70	60/40 (SimPad PLUS)

Adult and Child pulses are automatically adjusted to BP as follows:

5.6.3.d.

Systolic BP	Carotid Pulse	Radial/Brachial Pulse
>= 88	Normal	Normal
< 88	Normal	Weak
< 80	Normal	Absent
< 70	Weak	Absent
< 60	Absent	Absent

Infant pulses are automatically adjusted to BP as follows:

Systolic BP	Carotid Pulse	Radial/Brachial Pulse
>=80	Normal	Normal
< 80	Weak	Weak
< 76	Weak	Absent
< 40	Absent	Absent

Newborn pulses are automatically set to absent when Systolic BP is below 10 mm Hg. Otherwise newborn pulses are normal.

Features

Heart Sounds

Heart sounds are synchronized to ECG. 5.6.2.a.

Heart Sounds	Adult Manikin	Child Manikin	Infant Manikin
Normal	•	•	•
Aortic Stenosis	•	•	•
Austin Flint Murmur	•	•	•
Mitral Valve Prolapse	•	•	
Systolic Murmur	•	•	•
Diastolic Murmur	•		
Friction Rub	•		
Opening Snap @70 msec	•		
Still's Murmur		•	•
Atrial Septal Defect (ASD)		•	•
Ventricular Septal Defect (VSD)		•	•
Pulmonary Stenosis			•

Lung Sounds 5.6.1.a;b;

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

Lung sounds	Adult Manikin	Child Manikin	Infant Manikin
Normal Breath Sounds	•	•	•
Fine Crackles	•	•	•
Coarse Crackles	•	•	•
Pneumonia	•	•	•
Wheeze	•	•	•
Stridor	•	•	•
Pleural Rub	•		
Rhonchi	•	•	•

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Printed in China

20-05299 Rev D

www.laerdal.com



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