



Link Box
Quick-Setup-Guide
2011-October-17

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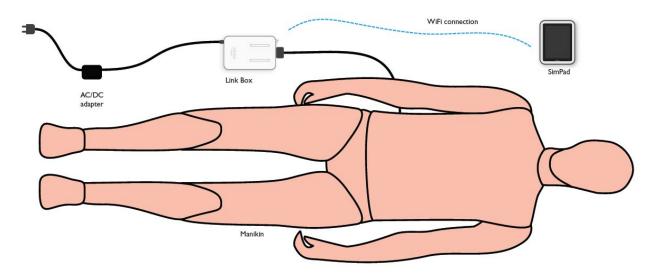
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### DESCRIPTION AND SYSTEM SETUP

The Link Box is a vital signs simulation unit. Connected to an applicable medical training simulator, like Nursing Anne or ALS Simulator, the Link Box provides different physiological parameters to the simulator.

The Link Box replaces the existing Laerdal VitalSim Vital Signs Simulator.

The Link Box may be operated by the remote control SimPad.



With the system you are able to perform medical simulations, preparing yourselves for real-life situations.

#### SAFETY INSTRUCTIONS

For your protection please, read these safety instructions completely before you connect the equipment to the power source. Carefully observe all warnings, precautions and instructions both on the apparatus and in these operating instructions. Retain this manual for future reference.

# **User Environment**

Protection against dust and moisture according to IP 22. Do not use this product at altitudes higher than 3000m asl. Do not use the product in ambient temperatures above 35 °C (95°F) and below 0°C (32°F). Relative humidity (RH) must be between 10% to 90%.

#### Water and Moisture

Do not operate the apparatus under or near water—for example near a bathtub, kitchen sink, or laundry tub, in a wet basement, near a swimming pool or in other areas with high humidity.

- Never install jacks for communication cables in wet locations.
- Do not operate the product with wet hands.

#### Cleaning

Unplug the apparatus from communication lines, mains power outlet or any power source before cleaning or polishing. Do not use liquid cleaners or aerosol cleaners. Use a lint-free cloth lightly moistened with water for cleaning the exterior of the apparatus.

### Lightning

Never use this apparatus, or connect/disconnect communication cables or power cables during lightning storms.

#### Dust

Do not operate the apparatus in areas with a high concentration of dust.

# **Power Connection and Hazardous Voltage**

The product or its accessories may have a hazardous voltage inside.

- Never attempt to open this product, or any peripherals connected to the product, where this action requires a tool.
- This product should always be powered from an earthed power outlet
- In case any parts of the product has visual damage, never attempt to connect main power, or any other power source, before consulting service personnel
- Route the power cord so as to avoid it being walked on or pinched by items placed upon or against it. Pay particular attention to the plugs, receptacles and the point where the cord exits from the apparatus.
- Do not tug the power cord.
- If the provided plug does not fit into your outlet, consult an electrician.

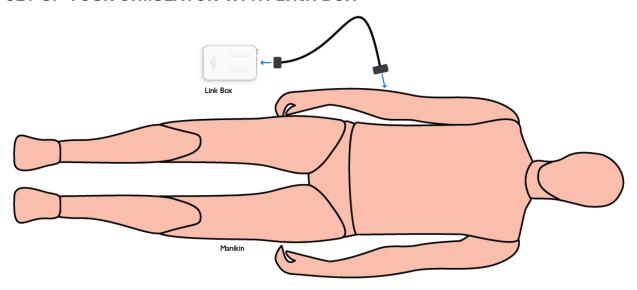
# Servicing

Do not attempt to service the apparatus yourself because opening or removing covers may expose you to dangerous voltages or other hazards, and will void the warranty. Refer all servicing to qualified service personnel.

#### **Accessories**

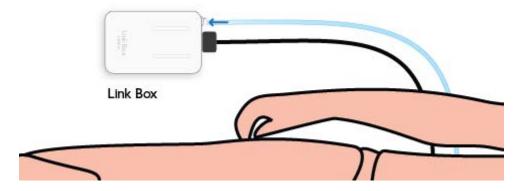
Use only accessories specified by the manufacturer, or sold with the apparatus.

# SET UP YOUR SIMULATOR WITH LINK BOX



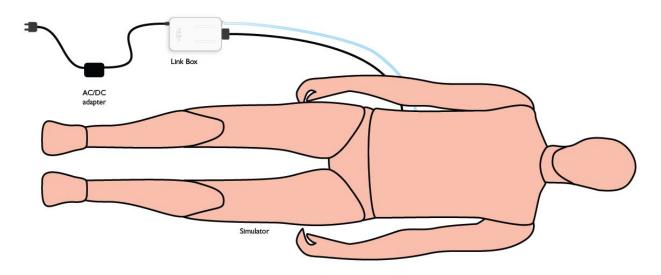
# **Connect Link Box to simulator**

Connect the simulator cable, supplied with the Link Box, to Link Box itself and the simulator. The position where it connects to the simulator to simulator will vary from simulator to simulator.



# **Connect blood pressure tube to Link Box**

Connect the transparent tube from the simulator, if such equipped, to the white blood pressure connector on the Link Box.



### **Power the Link Box**

## To mains using AC/DC adapter

The Link Box must be powered from the mains using the supplied AC/DC adaptor.

## Connect Link Box with other accessories as needed

- CPRmeter
- USB accessories
- Audio input line in
- Audio output line out

### START-UP

- 1. Make sure the simulator cable, a power source (and the blood pressure tube if desired) are connected to the Link Box
- 2. Press the ON/OFF button on the Link Box for at least half a second, turn the Link Box on.



- 3. A blinking green light will appear on the Link Box while starting up. The light turns to steady green when Link Box has started. When the WiFi is ready, the WiFi LED lights steady blue.
- 4. The Link Box is now ready to be controlled by e.g. the SimPad.

# GOOD LUCK SIMULATING!

### SHUT-DOWN

- Turn of the Link Box by pressing the ON/OFF button for at least 0,5 seconds. The LED will blink in green for about 10-20 seconds until it has shut-down properly.
- The Link Box will turn itself of it there has been no communication activity for a period of time.
- To force the Link Box to turn off, press and hold the ON/OFF button for 5 seconds.

#### **UPDATES**

• The Link Box software may be updated through a USB memory stick.

#### **FCC STATEMENT**

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference
- (2) This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Consult the dealer or an experienced radio/TV technician for help.

The use of shielded I/O cables is required when connecting this equipment to any and all optional peripheral or host devices. Failure to do so may violate FCC rules.

**IMPORTANT** Changes or modifications not covered in this manual must be approved in writing by the manufacturer's Regulatory Engineering Department. Changes or modifications made without written approval may void the user's authority to operate this equipment.

#### **CANADIAN ICES-003 STATEMENT**

This Class B digital apparatus meets all of the requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

### CE COMPLIANCE STATEMENT

This product was tested and found to comply with all the requirements of the EMC Directive 2004/108/EC as amended.

# Canada, Industry Canada (IC) Notices

This Class B digital apparatus complies with Canadian ICES-003 and RSS-210.

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

# Radio Frequency (RF) Exposure Information

The radiated output power of the Wireless Device is below the Industry Canada (IC) radio frequency exposure limits. The Wireless Device should be used in such a manner such that the potential for human contact during normal operation is minimized.

This device has also been evaluated and shown compliant with the IC RF Exposure limits under mobile exposure conditions. (antennas are greater than 20cm from a person's body).

This device has been certified for use in Canada. Status of the listing in the Industry Canada's REL (Radio Equipment List) can be found at the following web address: http://www.ic.gc.ca/app/sitt/reltel/srch/nwRdSrch.do?lang=eng

Additional Canadian information on RF exposure also can be found at the following web address: <a href="http://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/sf08792.html">http://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/sf08792.html</a>

# Canada, avis d'Industry Canada (IC)

Cet appareil numérique de classe B est conforme aux normes canadiennes ICES-003 et RSS-210.

Son fonctionnement est soumis aux deux conditions suivantes : (1) cet appareil ne doit pas causer d'interférence et (2) cet appareil doit accepter toute interférence, notamment les interférences qui peuvent affecter son fonctionnement.

# Informations concernant l'exposition aux fréquences radio (RF)

La puissance de sortie émise par l'appareil de sans fil est inférieure à la limite d'exposition aux fréquences radio d'Industry Canada (IC). Utilisez l'appareil de sans fil de façon à minimiser les contacts humains lors du fonctionnement normal.

Ce périphérique a également été évalué et démontré conforme aux limites d'exposition aux RF d'IC dans des conditions d'exposition à des appareils mobiles (les antennes se situent à moins de 20 cm du corps d'une personne).

Ce périphérique est homologué pour l'utilisation au Canada. Pour consulter l'entrée correspondant à l'appareil dans la liste d'équipement radio (REL - Radio Equipment List) d'Industry Canada rendez-vous sur: http://www.ic.gc.ca/app/sitt/reltel/srch/nwRdSrch.do?lang=eng

Pour des informations supplémentaires concernant l'exposition aux RF au Canada rendez-vous sur : <a href="http://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/sf08792.html">http://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/sf08792.html</a>