

SimPad PLUS 2 & Link Box PLUS

Important Product Information



Read these instructions thoroughly before connecting the equipment to the power source. Observe all warnings, precautions and instructions on the SimPad PLUS 2, in the User Guide and in this Important Product Information booklet. Retain this booklet for future reference.

Warnings and Cautions

A Warning states a condition, hazard, or unsafe practice that can result in serious personal injury or death.

A Caution states a condition, hazard, or unsafe practice that can result in minor personal injury or damage to the product.

Note

A note states important information about the product or its operation.

Operating Conditions

Water and Moisture

Cautions

- *Do not operate the device 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.*

Lightning

Warning

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

Dust

Caution

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

Cleaning and Maintenance

Cleaning

- *Unplug the device 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 device.*

Servicing

Refer all servicing to qualified service personnel.

Warning

Do not attempt to service the device yourself. Opening or removing covers may expose you to dangerous voltages or other hazards, and will void the warranty.

WiFi Connections

Please ensure that your settings of the device adhere to any regional restrictions on the use of WiFi channels. Channels 12 and 13 will not work on both the SimPad PLUS 2 and the Link Box PLUS.

Accessories

- Use only accessories specified by the manufacturer or sold with the apparatus.
- Do not use the RJ-45 as a telephone line connection.

Internal Battery Pack in SimPad PLUS 2

Warnings

- *Do not disassemble, crush, puncture, or short external contacts and do not allow metal objects to come into contact with the battery terminals.*
- *Do not try to repair the battery; it may cause an explosion.*
- *Do not incinerate or dispose of in fire, the battery may explode or release toxic materials.*
- *Risk of explosion if battery is replaced by an incorrect type.*
- *If the internal battery pack in SimPad PLUS 2 is mishandled, it can burst, cause a fire or even chemical burns.*

Cautions

- *Use only the SimPad battery with SimPad PLUS 2.*
- *Do not expose to high temperatures, such as in direct sunlight or in a car parked in the sun.*
- *Only charge SimPad PLUS 2 using the supplied battery charger or a recommended charging device that can charge the battery.*
- *Dispose of used battery pack promptly and according to local legislations.*
- *Do not dispose of in water.*

Power Connection and Hazardous Voltage

Warnings

- *The product or its accessories may have a hazardous voltage inside.*
- *Always power the product from an earthed power outlet.*
- *If the provided plug does not fit into your outlet, consult an electrician.*

Cautions

- *Never attempt to open this product, or any peripherals connected to it, if this action requires a tool.*
- *If any parts of the product have visual damage, never attempt to connect main power, or any other power source, before consulting service personnel.*
- *Route the power cord 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 device.*
- *Do not tug the power cord.*

US

Federal Communications
Commission (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.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

SimPad PLUS 2

Contains FCC ID: QHQ-LB1YM

Link Box PLUS

Contains FCC ID: QHQ-LB1YM



Cautions

- *This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.*
- *Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.*

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.

RF Exposure warning

This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provide with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.

For Country Code Selection Usage
(WLAN Devices)



Notes

- *The country code selection is for non-US models only and is not available to all US models. Per FCC regulation, all WiFi products marketed in US must be fixed to US operation channels only.*
- *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.*

Canada

Industry Canada Rules

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

1. L'appareil ne doit pas produire de brouillage;
2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.



Cautions for WLAN 5GHZ Device:

- *The device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems.*
- *The maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall comply with the e.i.r.p. limit.*
- *The maximum antenna gain permitted for devices in the band 5725-5850 MHz shall comply with the e.i.r.p. limits specified for point-to-point and non point-to-point operation as appropriate.*
- *The worst-case tilt angle(s) necessary to remain compliant with the e.i.r.p. elevation mask requirement set forth in Section 6.2.2(3) shall be clearly indicated.*
- *Users should also be advised that high-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350 MHz and 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.*



Avertissement:

- *Les dispositifs fonctionnant dans la bande 5150-5250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux.*
- *Le gain maximal d'antenne permis pour les dispositifs utilisant les bandes 5250-5350 MHz et 5470-5725 MHz doit se conformer à la limite de p.i.r.e.*
- *Le gain maximal d'antenne permis (pour les dispositifs utilisant la bande 5725-5850 MHz) doit se conformer à la limite de p.i.r.e. spécifiée pour l'exploitation point à point et non point à point, selon le cas.*

SimPad PLUS 2 / Link Box PLUS - Regulatory Information

- *Les pires angles d'inclinaison nécessaires pour rester conforme à l'exigence de la p.i.r.e. applicable au masque d'élévation, et énoncée à la section 6.2.2.3), doivent être clairement indiqués.*
- *De plus, les utilisateurs devraient aussi être avisés que les utilisateurs de radars de haute puissance sont désignés utilisateurs principaux (c.-à-d., qu'ils ont la priorité) pour les bandes 5250-5350 MHz et 5650-5850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.*

Canadian ICES-003 Statement

This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Radio Frequency (RF) Exposure Information -

The radiated output power of the Wireless Device is below the Innovation, Science and Economic Development Canada (ISED) 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). -

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

La puissance de sortie rayonnée de l'appareil sans fil est inférieure aux limites d'exposition aux radiofréquences d'Innovation, Sciences et Développement économique Canada (ISDE). L'Appareil sans fil doit être utilisé de telle manière que le potentiel de contact humain pendant le fonctionnement normal soit minimisé. -

Cet appareil a également été évalué et démontré conforme aux limites d'exposition RF IC dans des conditions d'exposition mobile. (Les antennes sont à plus de 20 cm du corps d'une personne). -

SimPad PLUS 2

Contains IC ID: 20263-LB1YM

Link Box PLUS

Contains IC ID: 20263-LB1YM

EU

This product is in compliance with the essential requirements of Council Directive 2014/53/EU on Radio Equipment (RED).

UK

UKCA (U.K. Conformity Assessed): This product complies with the requirements of U.K. legislation of Radio Equipment Regulations (S.I. 2017/1206).

The County Code Selection feature is disabled for products marketed in the US/Canada. La fonction de sélection du code de pays est désactivée pour les produits distribués aux États-Unis ou au Canada.

Symbol Glossary

	CE Mark
	UKCA Mark
	Li-Ion batteries recycling logo
	Waste of Electronic and Electrical Equipment Mark
	Australia RCM Mark
	UL Listing Mark
	FCC Declaration of Conformity label
	Korea Certification Mark
	Japanese MIC Certification Mark
	China Compulsory Certification Mark
	Japanese Voluntary Control Council for Interference by Information Technology Equipment Mark
	Alert symbol for a Class 2 radio apparatus which employs a frequency band that is not harmonised throughout the European Community and/or that potential restrictions on the use of the apparatus exist in one or more member states.
	Serial number
	Warning/Caution

Safety

SimPad PLUS 2 has IP32 protection rating as defined by standard IEC 60529.

Link Box PLUS has IP30 protection rating as defined by standard IEC 60529.



WEEE

This appliance is marked according to the European directive 2012/19/EC on Waste Electrical and Electronic Equipment (WEEE).

By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product.

The symbol on the product, or on the documents accompanying the product, indicates that this appliance may not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. Disposal must be carried out in accordance with local environmental regulations for waste disposal. For more detailed information about treatment, recovery and recycling of this product, please contact your local city office, your household waste disposal service or Laerdal representative.

Warranty

Refer to the Laerdal Global Warranty for terms and conditions. For more information visit www.laerdal.com.

SimPad PLUS 2 / Link Box PLUS - Regulatory Information

SimPad PLUS 2 Specifications	
Operating temperature	0 °C to 40 °C (32 °F to 104 °F), Humidity 5 to 90% RH non-condensing
Storage temperature	-20 °C to 60 °C (-4 °F to 140 °F)
Size	158 x 126 x 25 mm (6.22 x 4.96 x 0.98 in)
Operating Altitude	3500 m Maximum
Weight	450 g (1lb)
LCD display	High Resolution Color LCD display, 5.7 in, 480 x 640 pixels
Battery type	Li-Ion 3.8 V, capacity: 16 Wh
Battery time	3 - 4 hours continuous use with 50% display brightness
Battery charging	DC input 12V 0.7A max. USB OTG input, 5V 500 mA max
Charging time	10 – 80%, approximately 50% / hour from DC input 80% - 100%, 1 hour
Communication	WiFi 802.11 a/b/g/n/ac Bluetooth
SimPad PLUS 2 Connections	
DC input	12V DC, 3.33 A minimum. (for power adapter*), or 7.2V DC, 4.4A (for battery)
Ethernet	RJ45 connector, 10 Mbps / 100 Mbps / 1Gbps
USB	USB C on the go input/output
Audio	3.5 mm audio jack with TRRS input. Microphone on sleeve (compatible with iPhone headset)
Link Box PLUS	
Operating temperature	0 °C to 40 °C (32 °F to 104 °F), Humidity 5 to 90% RH non-condensing
Size	140 x 90 x 30 mm (5.51 x 3.54 x 1.18 in)
Operating Altitude	3500 m Maximum
Weight	200 g (0.44 lb)
Communication	WiFi 802.11 a/b/g/n/ac Bluetooth

*This product is intended to be supplied by a Listed Power Adapter. Contact Laerdal for further assistance with purchasing the power source.

Link Box PLUS Connections	
DC input	12V DC, 3.33 A minimum. (for power adapter**), or 7.34V DC, 5.7A (for battery)
Ethernet	RJ45 connector, 10 Mbps / 100 Mbps / 1Gbps
Future	Connector for future use
Manikin	Power and signals to manikin. Pulse, sounds etc
Battery #1	Connector for Laerdal Li-Ion Battery
Battery #2	Connector for Laerdal Li-Ion Battery
Blood Pressure	Cuff pressure input: 0 - 300 mm Hg
USB	USB A input / output
Audio in	3.5 mm jack with TRS input. Line in or microphone level
Audio out	3.5 mm jack with TRS output. Line out level
Li-Ion Battery	
Battery type	Li-Ion, 4 cells
Cell type	LIC 18650-M29B
Voltage	7.34 V nominal
Capacity	5.7 Ah typical
Size	98 x 78 x 29.7 mm (3.86" x 3.07" x 1.11")
Weight	280 g (0.6 lb) approximately
Battery Charging	
Charging voltage input	9 – 16 V DC
Charging method	Constant Current + Constant Voltage
Constant current	1.33A typ.
Charging time:	0 - 80%: 30% per hour. 80% - 100%: 1 hour
Charging Indicator	1. The charging indicator is only active when there is a charging voltage present 2. Charging: Steady yellow light 3. Charged: Light off

** This product is intended to be supplied by a Listed Power Adapter or DC power source, rated 12Vdc, 3.33A minimum, T_{ma} = 35 degree C, and the altitude of operation = 3500m. Contact Laerdal for further assistance with purchasing the power source.

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