



Louis

USER MANUAL

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Symbols



Warnings included in the manual

IP54

Protected against dust and other microscopic residue. Protected against water splashing from all directions



Direct current



Product reference Product serial number



European Conformity



Do not dispose of in household waste

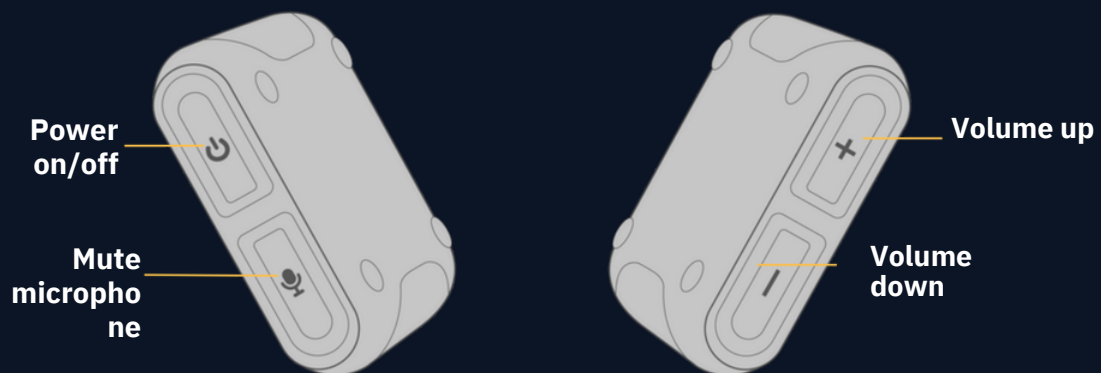
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Description

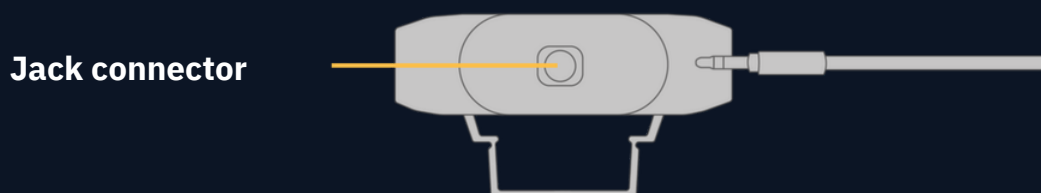
Louis is a communication solution specially designed for industrial work environments. Combined with hearing protection, the device allows for easy and smooth communication in a noisy environment.

Features



- **Insert the jack plug** of your hearing protection into the unit.

Usage precautions: preferably plug and unplug the jack while the Louis unit is switched off.



- **Turn on the unit** by pressing the button: 
When turned on, the LED lights up for 5 seconds to indicate **the battery status** (from red to green) **then flashes in the group's colour**.
- The **LED flashes** every 2 seconds when you are **not connected** to other users.
- The **LED stays solid** when you are **connected** to other users.
- **The microphone can be muted and unmuted** using the dedicated button, located on the side of the product (mute): 
When the microphone is muted, you hear "mic off". The tone repeats periodically to remind the user that their microphone is muted. When the microphone is turned back on, you hear "mic on".

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- When the VOL+ and VOL- buttons are used, a short tone indicates that the volume has changed.
- When the minimum or maximum volume is reached, a double tone is heard.
- **Group option** : Press and hold the microphone button and click the button  until the LED colour matches the group you want to talk to. 
- When the **LED is white, the manager can communicate with all Louis units** nearby, regardless of their group.
- When your device connects to another one, **you hear “connected”**.
- When a user leaves a group (beyond the maximum range), they are disconnected. They hear “disconnected”.
- **Only three people can speak at the same time.** If a fourth person wants to join in, they will not be able to speak while the three people are talking.
- The fourth person who wants to join the conversation will hear a tone for a few seconds warning them that the others cannot hear them. In addition, voice feedback in the headset is cut off. If the person keeps talking, a double tone repeats periodically every 2 seconds.
- If the battery level is low, you hear “low battery”.

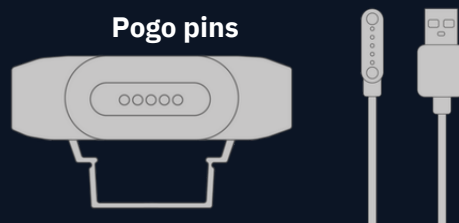


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Charging

1. Solution: charging cable. Connect the mains adapter to the wall outlet / PC USB port



- While charging, an **LED flashing** every second indicates that the component is **charging**.
- While charging, a **constantly lit LED** indicates that the device is **fully charged**.
- **5V DC: DO NOT USE A PHONE CHARGER.** If charging via USB cable, use a wall transformer charger with a maximum output voltage of 5V and a maximum output current of 1A, i.e. a maximum output power of 5W.

2. Solution: Versailles charging station.

Plug Versailles into the mains and place Louis in its slot

Charge level	<10%	<50%	<80%	>80%
LED colour (Louis and Versailles)	Red	Orange	Yellow	Green



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Troubleshooting

Problem	Solution
I cannot hear others	Increase the volume
	Check that the headset is properly connected
	Check that you are in the correct group
Others cannot hear me	Check that the mute button is not activated
	Check that the headset is properly connected
	The microphone is not positioned close enough to your mouth
	Check that you are in the correct group



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Operating limits

Louis can only connect with another Louis. Communication will be disrupted if:

- **An obstacle** (*such as a metal object or a wall*) is located between the devices.
- **The device is used outdoors**
- **Strong magnetic interference** (*presence of interfering objects:*
 - *electric coil / Faraday cage*)

Usage recommendations

- Do not attempt to connect it to a phone

Safety warning

- Do not throw into fire.
- Do not open.
- Warning: risk of explosion if the battery is replaced with an incorrect battery type.
- Do not put in water.
- The Louis user must use PICBs compatible with Louis and must check the condition of their PICBs. If they are defective, Louis must not be used.

After-sales service

- If a malfunction is identified by the user, we recommend turning the device off and back on.
- If the problem is not resolved following the recommendations of the Safehear contact, the product must be returned to Safehear for diagnosis.
- The cost of returning the product is borne by the customer (except under the Sérénité warranty).

Maintenance

- **DO NOT IMMERSE** the unit
- **DO NOT USE ABRASIVE SOLUTIONS** (white spirit, acetone, etc.)
- Clean using a clean, damp cloth with soap and water

Storage

- Store the product in a clean, dry place before and after use
- Always keep the product in its original packaging or in the Versailles charging station, away from any direct heat source or sunlight, dust, and harmful chemicals.
- Storage temperature range: -10°C to +30°C
- Humidity: 65 ± 20%
- For disposal, please comply with national regulations.

Technical data sheet



Technical specifications

Product reference: SHLXMUL

- **Dimensions:** 51 x 54 x 17.5 mm
- **Weight:** 30 grams
- **Maximum communication range:** Approximately 100 metres line of sight in open field. Actual range varies depending on factors such as obstacles between devices and surrounding magnetic fields.
- **Operating frequency:** 2400 MHz - 2483.5 MHz
- **Maximum output power:** 10 dBm
- **Latency:** 100 ms
- Up to 3 speakers simultaneously.
- Unlimited number of listeners.
- Choice of 4 discussion groups (several groups can be listened to simultaneously).

Electrical specifications

- **Power source:** Integrated rechargeable lithium-ion battery (LP602530 3.7V ; 500mAh)
- **Average charging time:** 3h
- **Average battery life:** 9h

Environmental specifications

- **Operating temperature (discharge):** -10°C ; + 50°C
- **Charging temperature:** 0°C, 37°C
- **% humidity:** 65 +/- 20%
- **Water/dust resistance:** IP54
- **Type of use:** indoor / outdoor



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Warranty

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Warranty and limitation of liability

- **WARRANTY**

If any SAFEHEAR product is found to be defective due to a material or manufacturing defect, or fails to conform to any express warranty regarding a specific use, SAFEHEAR's sole obligation and your sole exclusive remedy is, at Safehear's discretion, the repair, replacement, or refund of the purchase price of the parts or products concerned, subject to timely notification by you and proof that the product was stored, maintained, and used in accordance with SAFEHEAR's written instructions.

UNLESS PROHIBITED BY LAW, THIS WARRANTY IS EXCLUSIVE AND REPLACES ANY OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ARISING FROM A TRANSACTION, USE, OR TRADE PRACTICE, EXCEPT FOR TITLE RIGHTS AND AGAINST PATENT INFRINGEMENT.

Under this warranty, SAFEHEAR has no obligation for products that are defective as a result of inadequate or improper storage, handling, or maintenance; failure to follow product instructions; or modification or damage to the product caused by accident, negligence, or misuse.

- **LIMITATION OF LIABILITY**

UNLESS PROHIBITED BY LAW, SAFEHEAR SHALL UNDER NO CIRCUMSTANCES BE HELD LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL, OR CONSEQUENTIAL LOSSES OR DAMAGES (INCLUDING LOSS OF PROFITS) ARISING FROM THE PRODUCT, REGARDLESS OF THE LEGAL ARGUMENT PUT FORWARD. THE LEGAL REMEDIES DEFINED IN THIS DOCUMENT ARE EXCLUSIVE.

- **NO MODIFICATION**

Modifications to this device must not be made without SAFEHEAR's written consent. Unauthorised modifications may void the authorisation granted under communications regulations that allow this device to operate.

