



# SpiroCom XXL BT

User Manual

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# Introduction and safety

# Safety notice

The product must only be used with other approved Interspiro products. The apparatus must be maintained, serviced and tested as described in this user manual, Interspiro service manuals and Interspiro test instructions.

Interspiro is not responsible for:

- · combinations of products, unless put to market by Interspiro
- · changes or adaptations made to the product by a third party

Changes to this document - necessitated by typographical errors, inaccuracies of current information or improvements and changes of equipment - may be made at any time without prior notice.

Exposure to extreme conditions, may require different procedures rather than those described in this manual. The guarantees and warranties specified in the conditions of sale are not extended by this Safety notice.

## Safety terminology and symbols

In this document, the terms DANGER, WARNING and NOTICE are used to indicate potential hazards. Read the accompanying information carefully and follow the safety instructions.



#### DANGER

The DANGER type of hazard statement signifies that there is a risk of serious injury or death.



#### WARNING

The WARNING type of hazard statement signifies that there may be a risk of serious injury or death.



#### NOTICE

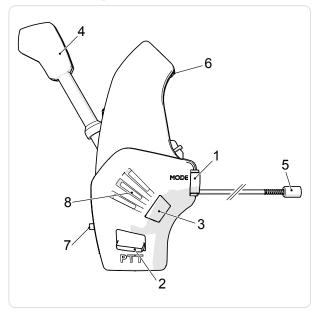
The NOTICE type of hazard statement signifies that there may be a risk of damage to equipment or property.

# **Product description**

### **Overview**

The SpiroCom XXL mask unit is made for wireless transmission of the sound to the long-range radio and has Team Talk and PTT and if desired – an external loudspeaker (VPU) functionality.

# Main components

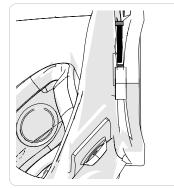


- 1. MODE button
- 2. PTT button
- 3. Display
- 4. Ear speaker
- 5. Microphone
- 6. LED indicator
- 7. Adjustment button (+/-)
- 8. External loudspeaker (VPU) [optional]

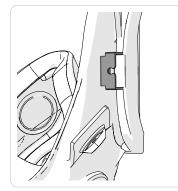
# Preparation

# Install attachment bracket on mask

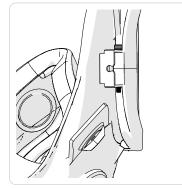
1. Remove the visor frame screw (and lock washer) on the right side of the mask.



2. Put the attachment bracket on the mask.

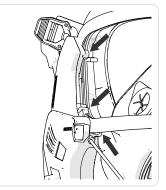


3. Install the long screw (supplied with the SpiroCom) and the lock washer. Tighten the screw.

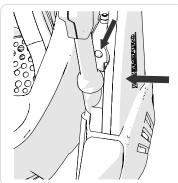


# Install SpiroCom on mask

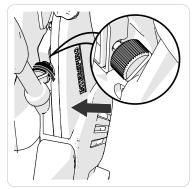
1. Put the SpiroCom in position on the mask by placing the hooks over the visor frame.



2. <u>Quick connection version:</u>Press the SpiroCom against the mask until the locking peg locks into the hole in the attachment bracket.



3. <u>Hand screw version:</u> Press the SpiroCom against the mask until it is possible to tighten the hand screw moderately in the hole in the attachment bracket.

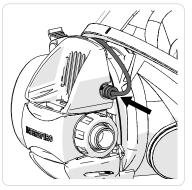


4. Make sure that the SpiroCom is safely attached to the mask.

# Install microphone on Inspire mask

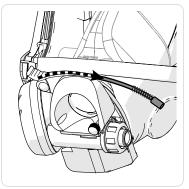
1. Put the microphone cable between the lower visor frame and front piece of the mask.

2. Push the microphone into the hole in the frontpiece of the mask

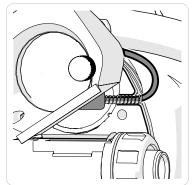


# Install microphone on S-mask

1. Put the microphone cable between the lower visor frame and front piece of the mask.

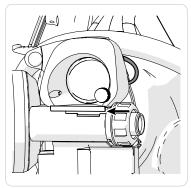


- 2. Loosen the hand screw on the speech diaphragm and turn the speech diaphragm up.
- 3. Put the part of the microphone cable with the spring into the slot in the mask. The spring will prevent the cable from damage caused by opening and closing the speech diaphragm.



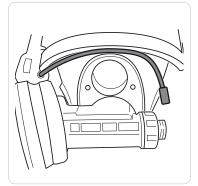
4. Turn the speech diaphragm down and tighten the hand screw.

5. If the speech diaphragm is in the correct position, the lip of the speech diaphragm covers the serial number on the breathing valve.

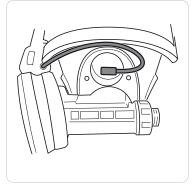


# Install microphone on Spiromatic mask

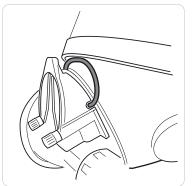
- 1. Loosen the hand screws and remove the external speech cone/blank cover.
- 2. Put the microphone cable between the lower visor frame and front piece of the mask.



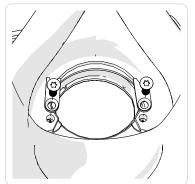
3. Put the microphone so that it is in the center of the front piece of the mask.



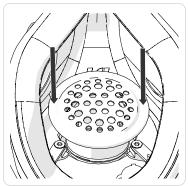
4. Install the external speech cone and tighten the hand screws. Make sure the microphone cable is correctly installed in the slot in the speech cone.



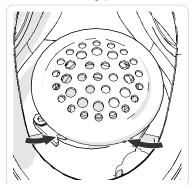
5. Attach the locking lugs in the mask with the two screws.



- 6. Make sure that the screws on the locking plates are correctly tightened so the locking plates turn evenly.
- 7. Make sure that the locking lugs on the speech diaphragm is turned towards the locking plates. Hold the speech diaphragm by the edges and carefully press the speech diaphragm in place. NOTE: Do not press in the middle of the speech diaphragm, this can deform the speech diaphragm.

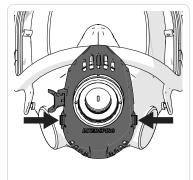


8. Turn the locking plates with a screwdriver or similar tool to lock the speech diaphragm.

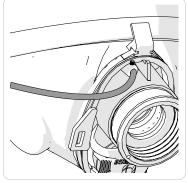


# Install microphone on N/PE/ESA mask with new cover

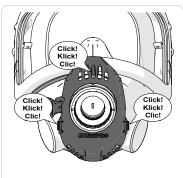
1. Remove the mask cover by pushing the locking tabs.



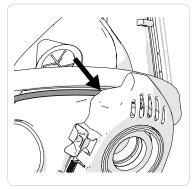
2. Put the microphone into the front piece of the mask with the stop screw touching the edge.



3. Put on the mask cover.

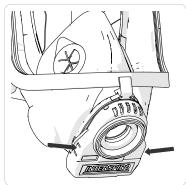


4. Make sure the microphone cable is correctly installed between the cover and the mask.

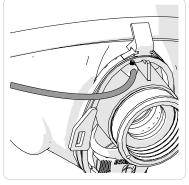


# Install microphone on N/PE/ESA mask with old cover

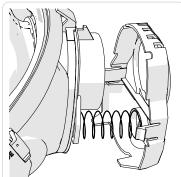
1. Remove the mask cover by pushing the locking tabs.



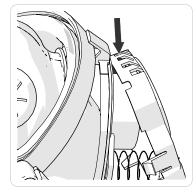
2. Put the microphone into the front piece of the mask with the stop screw touching the edge.



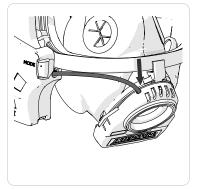
3. Put the outer end of the exhalation valve spring in the circular cavity on the inside of the mask cover.



4. Insert the upper "hook" of the connector into the middle hole (in the upper part) of the mask cover.



5. Push the lower part of the mask cover towards mask until it locks. Make sure the microphone cable is correctly installed between the cover and the mask.



# Operation

### Power on the SpiroCom

- 1. Push the MODE button for 3 seconds and then release it. The display shows the group number.
- 2. If the unit does not start or the display shows "LO", replace the batteries.

## **Battery power level**

The remaining battery level is shown in the display when turning on the power on the SpiroCom. It has five levels described below.

- b4 = > 75% battery power remaining.
- b3 = 50% 75% battery power remaining.
- b2 = 25% 50% battery power remaining.
- b1 = < 25% battery power remaining.
- b0 = Less than 2 hours of battery power. Change batteries when this level is reached. When the batteries reaches this level during use, the LED indicator starts flashing red and two dots are shown on the display.
- · Lo = The battery power level is too low. Replace the batteries to start the unit.

# **Bluetooth® function**

#### **Bluetooth® pairing**

- 1. Push down and hold the Adjustment button.
- 2. Push the MODE button for 3 seconds and then release it.
- 3. Release the Adjustment button. The SpiroCom starts up and plays 3 tones of the same pitch in the ear speaker to indicate that the SpiroCom is visible for the long-range radio for Bluetooth® pairing.



#### NOTE

Note that the device will not start up until the Adjustment button has been released.

- 4. Search for Bluetooth® devices using the long-range radio.
- 5. Select the SpiroCom for pairing in the long-range radio.
- 6. The SpiroCom plays 3 single tones of an increasing pitch in the ear speaker to indicate that the SpiroCom now is Bluetooth® paired and connected to the long-range radio.



### NOTE

Note that a new pairing is needed when batteries have been replaced in the Spiro-Com.

#### Bluetooth® connection of paired device

When a long-range radio (that has been paired with the SpiroCom) and/or the SpiroCom has been powered off and powered on again, it is possible that the Bluetooth® connection must be established manually using the long-range radio. This is the case when the long-range radio is not using automatic connect to paired devices.

- 1. Power on the SpiroCom.
- 2. Select the SpiroCom for Bluetooth® connection in the long-range radio.
- 3. The SpiroCom plays 3 single tones of an increasing pitch in the ear speaker to indicate that the SpiroCom now is Bluetooth® connected with the long-range radio.

#### **Bluetooth® notifications**

- If an established Bluetooth® connection gets disconnected the SpiroCom plays 3 single tones of a decreasing pitch in the ear speaker to indicate that the connection has been lost.
- If the connection is re-established the SpiroCom plays 3 single tones of an increasing pitch.

# **Team Talk function**

- The SpiroCom is started with the last used group number.
- To Change the group number push the Adjustment button up or down. The group number can be changed until the SpiroCom has connected to a group
- When the SpiroCom connects to a group "connected" is heard in the ear speaker and the group number remains lit in the display.
- If the group number must be changed after the SpiroCom has been connected to a group it needs to be restarted.

# Long range radio transmission (PTT)

- 1. Push up and hold the PTT button to start a transmission.
- 2. Wait until the LED indicator shows a red light and a beep is heard in the ear speaker now you can speak.
- 3. Release the PTT button to end the transmission.

# Adjusting the volume

- The volume in the ear speaker can be adjusted after the SpiroCom has connected to a group.
- There are 5 volume levels and the default level is 3 (medium)
- Push the Adjustment button up or down to change the volume, each step is indicated with a beep in the ear speaker. The lowest and highes level are indicated with a double beep.

# Mute function for Team Talk

The microphone of the SpiroCom can be muted (switched off) for Team Talk with the Adjustment button.

<u>Mute:</u> Push down and hold the Adjustment button (approximately 4 seconds) until the LED indicator starts flashing red.

Unmute: Push up the Adjustment button one time, then the LED indicator stops flashing.

# Power off the SpiroCom

- 1. Push and hold the MODE button (approximately 7 seconds) until the display shows "- -" and the LED indicator shows a red light.
- 2. Release the MODE button.

The SpiroCom will automatically power off after 15 minutes, if no sound is detected by the microphone.

# Maintenance

### **Battery replacement**



#### WARNING

Batteries must only be changed in an area known to be non-hazardous.



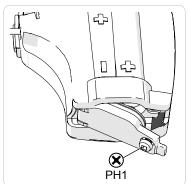
#### NOTICE

Always use the specified AAA alkaline batteries "Duracell MN2400" or "Energizer E92". Interspiro assumes no liability for mechanical, electrical or any other type of battery failure.

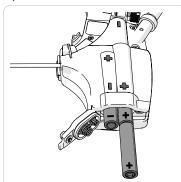
Do not mix different brands of batteries and do not mix old and new batteries.

Cold conditions during storage and use will decrease battery life.

1. Loosen the screw with a screwdriver and open the battery cover lid.



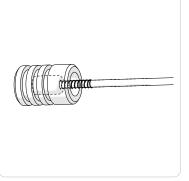
- 2. Remove the old batteries.
- 3. Put in new batteries. Make sure the batteries are correctly installed, as shown on the back of the SpiroCom.



4. Close the battery cover lid and tighten the screw moderately.

# **Cleaning and drying**

1. Remove the microphone from the mask and cover it with a washing plug.



- 2. Clean the SpiroCom with a moist sponge, if needed use a mild detergent.
- 3. Let the SpiroCom dry in an upright position.

# Technical data SpiroCom XXL BT

#### Ingress protection

Rating	Note
IP67	For sealed unit, excluding microphone.

#### Frequency

Region	Frequency
Europe	868 MHz
USA	915 MHz

#### Approvals

Approval	Note
CE	Approved
FCC	ID: YDFSCMBT34320
IC	8937A-34320

#### The mask mounted unit is intrinsically safe

Region	Note
Europe	GA Exia IIB T4, -30°C - + 60°C
USA	UL913, for use in Class I, II, III, Division 1, Group C to G Hazardous Locations

Substitution of components may impair Intrinsic safety.

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, and (2) this device must accept interference received, including interference that may cause undesired operation. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference with the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communication. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This device complies with Industry Canada's licence-exempt RSSs. 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.

Le présent appareil est conforme aux CNR d'Industrie 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.