SUPPORT

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Sensear

SM1R
USER GUIDE

For additional product information and
language translations,
see the following web page:
www.sensear.com/support/product-manuals

DOC00074 Rev.02

COMMUNICATING

COMMUNICATING OVER TWO-WAY RADIO:

To transmit over the two-way radio:
• Press and hold the button located on the Inline PTT.
• Release the Inline PTT button to cease transmission.
• To change the volume of the two way radio communications, use the two way radio's volume controls.

Notes:
• When the headset is powered off (and disconnected from the inline PTT), the inline PTT button may not activate the two-way radio. The PTT located on the two-way radio should be used.
• When the headset is powered on, the two-way radio PTT may not activate the two-way radio.
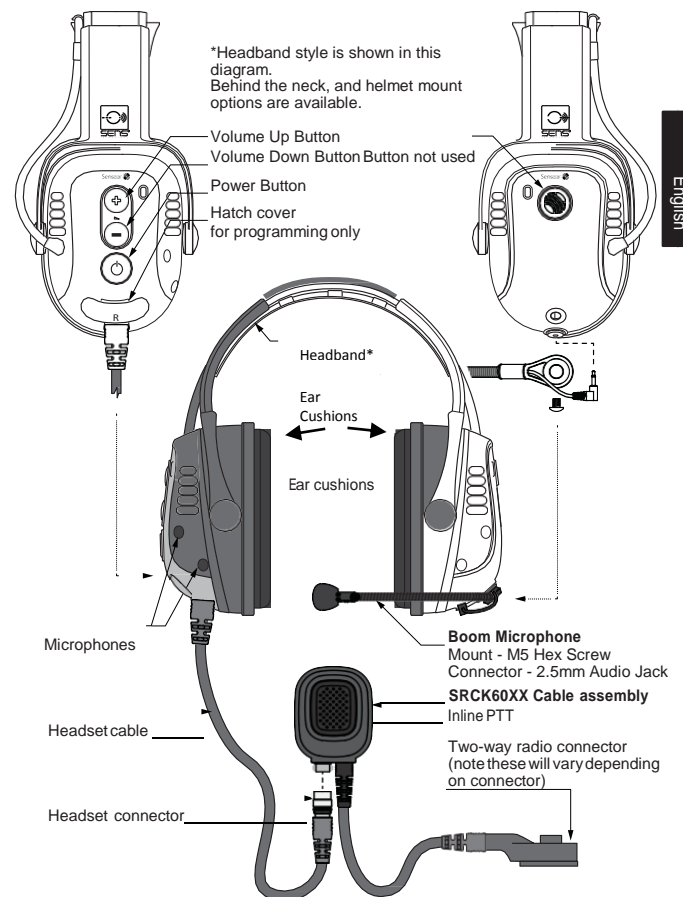
VOX
VOX can be used on VOX enabled two-way radios. Refer to the two-way radio documentation for the setup and use of the VOX feature.
When talking into the boom microphone using the VOX function, expect an activation delay. A typical method to activate the VOX command is to breathe into the microphone or speaking a simple, one syllable word (such as "talk").

Notes:
• The VOX function can be found to activate in windy conditions or conditions where there is a lot of background noise. Sensitivity adjustments can only be made by the two-way radio.
• Ensuring there is a wind sock on the boom microphone should help avoid activation by wind noise, but may not eliminate the issue.

*Headband style is shown in this diagram.
Behind the neck, and helmet mount options are available.

Volume Up Button
Volume Down Button Button not used
Power Button
Hatch cover for programming only

Headband*
Ear Cushions
Ear cushions

Microphones

Headset cable

Headset connector

Boom Microphone
Mount - M5 Hex Screw
Connector - 2.5mm Audio Jack
SRCK60XX Cable assembly
Inline PTT

Two-way radio connector
(note these will vary depending on connector)

INTRODUCTION

The SM1R is a state of the art hearing protection communication system that allows you to retain situational awareness whilst remaining in full contact with your two-way radio communication device.

Situational awareness is provided by sens° processing technology and environmental microphones mounted within the headset.

Contact through two-way radios is enabled by the SRCK60(XX)* cable assembly that is also provided with the headset.

Please note that the SM1R headset uses power from the two-way radio. The SM1R must be connected by the appropriate SRCK60(XX) cable to the radio to provide both sens° situational awareness and communication to the two-way radio.

*SRCK60(XX) part numbers vary depending on the radio connector. Consult your supplier for the appropriate cable.
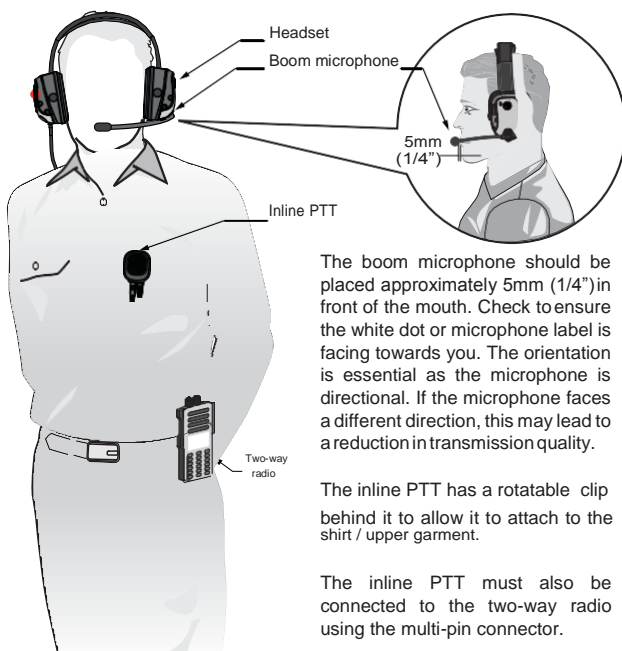
TROUBLESHOOTING

1. **Headset does not power up**
2. **Headset is switching on and off intermittently**
3. **The headset is not reacting to any controls**

• Disconnect the headset at the Inline PTT check the connectors are clear from any particles or fluids, then reconnect the headset.
• Check the two-way radio is powered on, and that the two-way radio battery is charged
• Check the two-way radio connector is properly connected to the two-way radio. If the connector has threaded screws to hold the connector in place, ensure these are fastened correctly.

4. **Two-way radio audio is not clear or distorted**
5. **The headset cuts out**

• Adjust the two-way radio volume at the two-way radio controls. Setting a volume level of 50% is a good starting point.
• Check that the battery in the two-way radio is charged

6. **Can't hear any of the surrounding environment**

• The headset may be in 'Quiet mode', or power is not present to the headset. Press the power button on the headset to toggle between Quiet mode and sens° mode

7. **The receiver can't hear my voice and only can hear the background noise**

• Refer to the 'Wearing the headset' chapter of the manual. Ensure that your boom microphone is set up appropriately.

WEARING THE HEADSET

The SM1R headset is designed to be worn with the headset sealing around the ears. Specific examples of how to fit the headset around the ears are covered under the 'Fitting the headset' section. The fit does alter slightly depending on what style of mount is used - headband, behind the neck or mounted to a helmet directly.

Headset
Boom microphone
5mm (1/4")
Inline PTT
Two-way radio

The boom microphone should be placed approximately 5mm (1/4") in front of the mouth. Check to ensure the white dot or microphone label is facing towards you. The orientation is essential as the microphone is directional. If the microphone faces a different direction, this may lead to a reduction in transmission quality.

The inline PTT has a rotatable clip behind it to allow it to attach to the shirt / upper garment.

The inline PTT must also be connected to the two-way radio using the multi-pin connector.
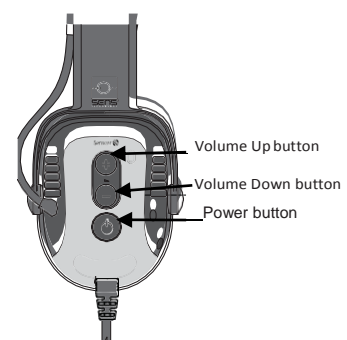
OPERATING THE HEADSET

sens° MODE:

When the headset is powered up, the unit is set into 'sens° mode'*. 'sens° mode' allows full situational awareness of your surroundings in addition to two-way radio communications.

• The power button toggles between Quiet mode and sens° mode
• The volume control buttons can be used to raise or lower the audio level of the sens° mode.
• * The default mode on power up can be programmed using the Sensear app.

QUIET MODE:

By pressing the power button, this toggles 'Quiet mode'.
Quiet mode only allows two-way radio communications to pass through the headset.

Volume Up button
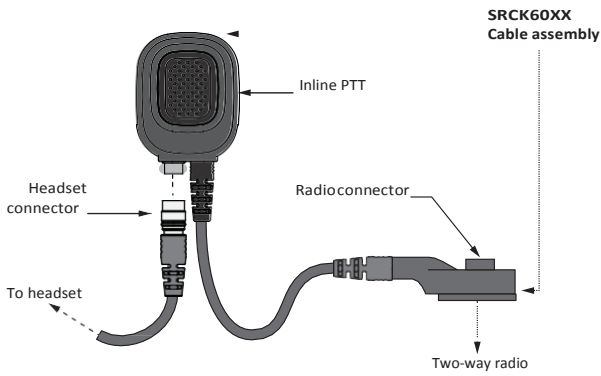Volume Down button
Power button

OPERATING THE HEADSET

POWER ON:
1. Connect the SRCK60XX cable to the two-way radio.
2. Turn the two-way radio on from the two-way radio
3. Connect the headset cable to the SRCK60XX cable at the Inline PTT.
4. The headset will power up. An audible sound will be heard through the headset.

POWER OFF:
1. Turn the two-way radio off from the two-way radio,

   or,

2. Disconnect the headset cable from the SRCK60XX cable at the Inline PTT

(Option 2. brings audio back to the two-way radio)

SRCK60XX
Cable assembly

Inline PTT

Headset connector

Radio connector

To headset

Two-way radio

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5.

FITTING THE HEADSET
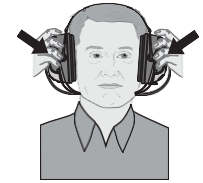
It is recommended that the wearer should ensure that;

* The ear muffs are fitted, adjusted and maintained in accordance with the manufacturers instructions
* The ear muffs are worn at all times in high noise conditions

If the above recommendations are not adhered to, the protection afforded by the ear muffs will be severely impaired.

BEHIND THE HEAD MOUNT

1. Adjust velcro strap so that the ear muff cups completely enclose the ears.

2. The ear muff cushions should seal firmly against the head.

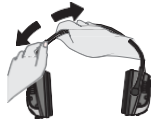3. For best results, remove all hair from under the ear cushion.

4. Noise reduction will be adversely affected by anything that breaks the seal of the ear muff ear cushions.

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FITTING THE HEADSET
HEADBAND MOUNT

1. Adjust the headband by pulling the centre band out equally on both sides.

2. Ensure no hair is inside the muff ear cushions.

3. Fit the ear muffs over the ears ensuring a tight fit around the ears.

4. Ensure the muff completely surrounds the ears.

5. Press down on the headband to obtain a snug and comfortable fit.
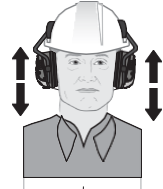
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FITTING THE HEADSET
HELMET MOUNT

1. Attach the adaptors to each side of the helmet by sliding them into the slots.

2. Attach the earmuffs by sliding into the adaptors.

3. Ensure the earmuff is firmly attached by lifting the arm up and down.

4. Place the helmet on the head and adjust by sliding the ear muffs up and down.

5. Earmuffs should seal firmly against the head. For best results, remove hair from under the ear muffs.

6. Three adhesive mounts and ties are included to secure the ear muff cable to the helmet. The mounts should be evenly spaced around the rear outside of the helmet. Fit the tie through the mount. The cable should feed through each tie and secured in place.

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