

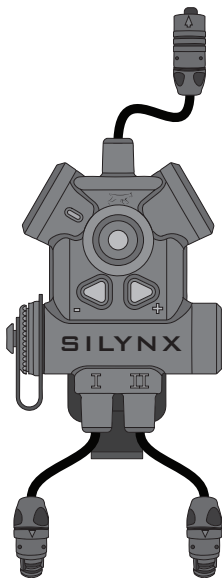


PROTECTION FROM WITHIN™

CLARUS II HEADSET SYSTEM

USER GUIDE

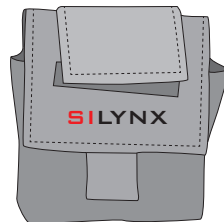
2 CLARUS II SYSTEM COMPONENTS



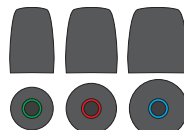
Clarus Control
Box



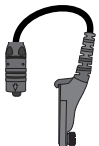
Protego PRO Headset



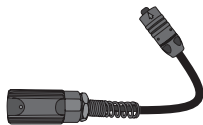
Headset Pouch



Foam Ear Buds
Foam Sizes: S/M/L



Cable Adaptor A



Cable Adaptor B

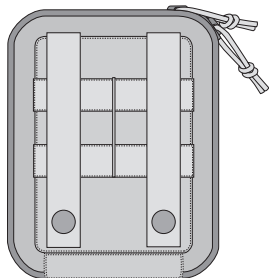


Cleaning Kit
(brush and alcohol pad)

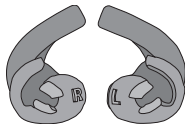


User Guide

OPTIONAL COMPONENTS



Carrying Case



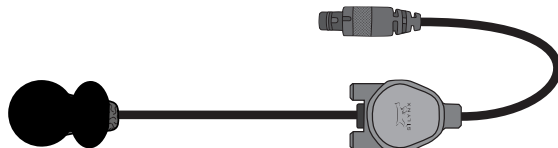
Internal Ear Retainers S/M/L



Wind Guard



Micro Wireless Push To Talk (MWPTT)

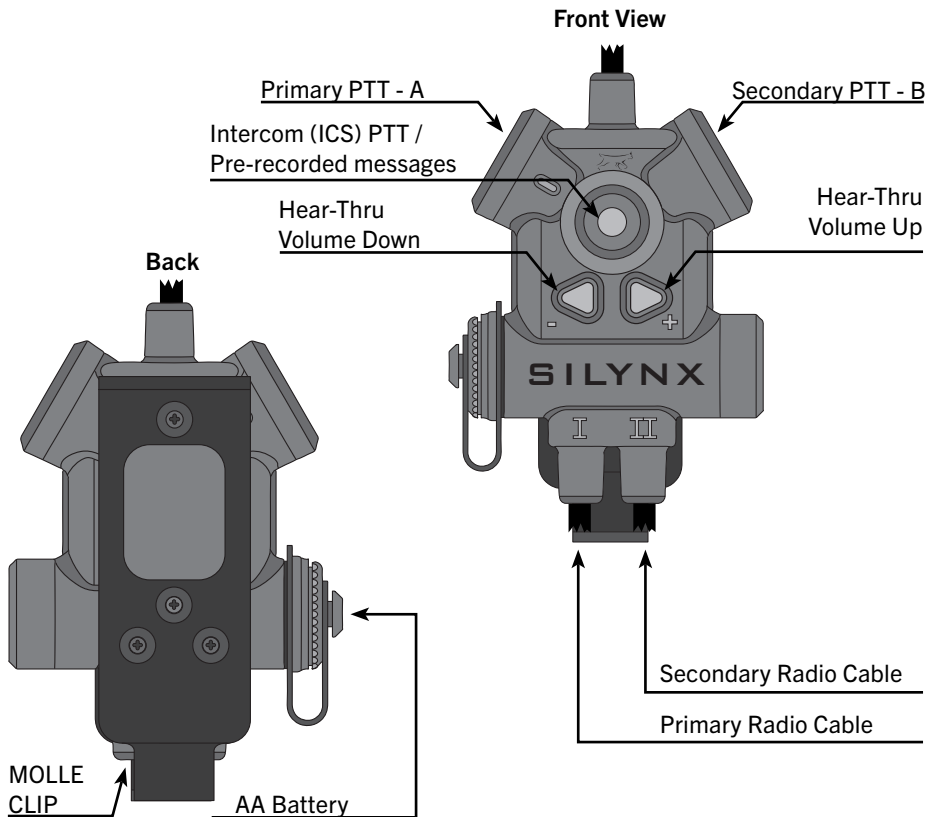


Vest Mounted Boom Mic



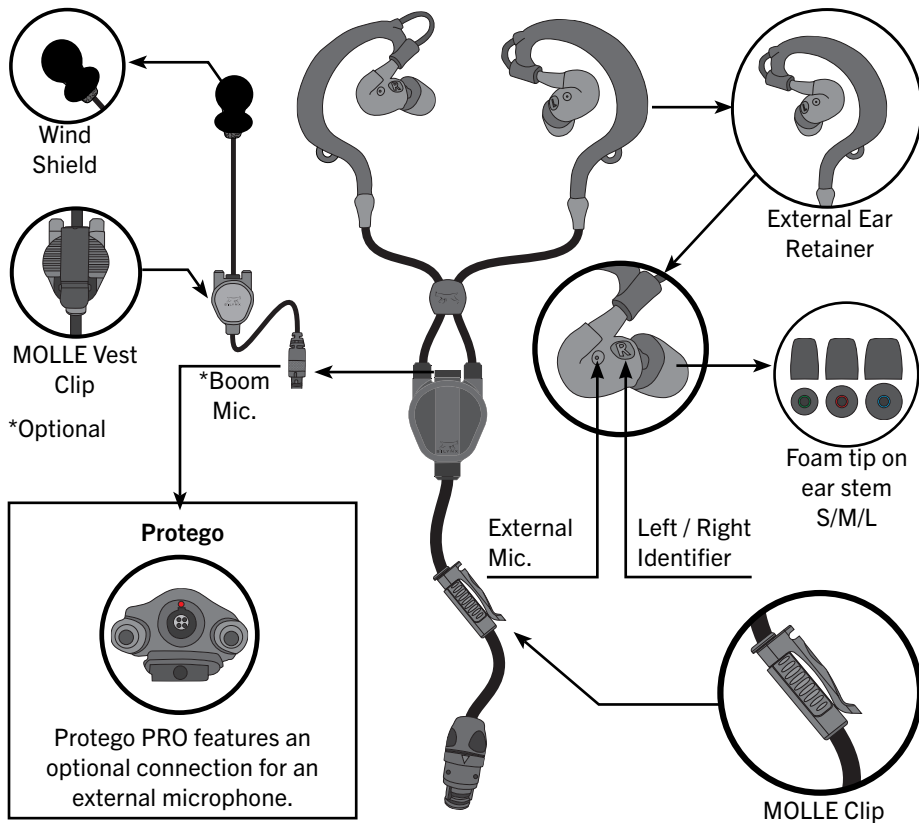
Bluetooth Dongle

CONTROL BOX



PROTEGO HEADSET

5



The Clarus II system supports simultaneous connection to two radios (or intercom) and allows separate control of each.

Connecting the Equipment:

1. Connect the radio cable adapters to the Clarus II control box.
2. Connect the headset to the control box.

Connecting the Radios:

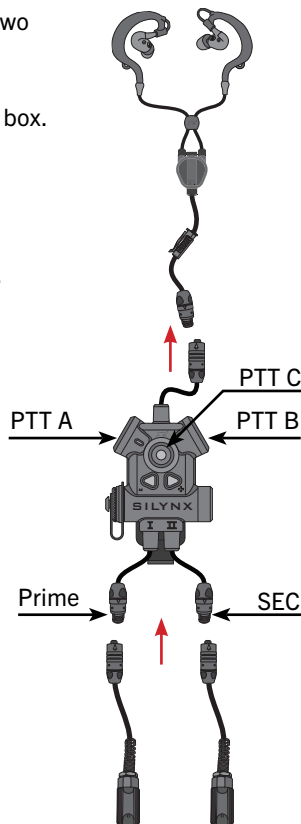
- Connect the primary radio to the PRIME port (labeled I).
- Connect the secondary radio to the SEC port (labeled II).

Using the PTT Buttons:

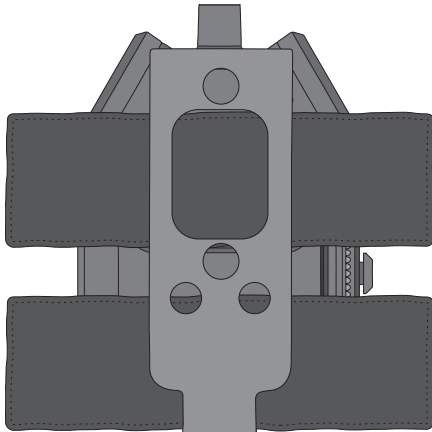
- PTT A transmits over the primary radio.
- PTT B transmits over the secondary radio.
- When a dual channel radio is connected - Long press PTT C to transmit on the secondary radio channel.
- When connected to an intercom system (ICS), PTT C functions as the transmit button for the intercom network. (See "Center Button" page.)

Notes:

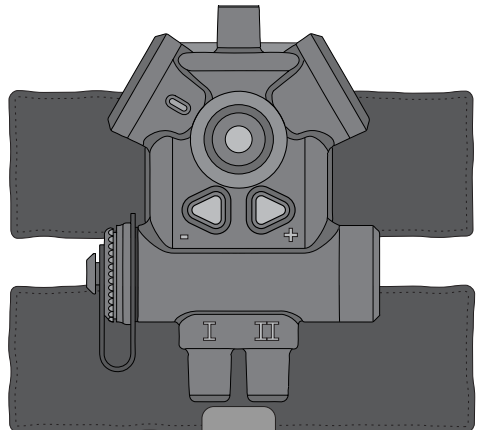
- Ensure all connections are securely fastened before operation.
- It is recommended to fully check system functionality and conduct an audio test prior to any operational use.



Back View



Front View



To ensure a stable and comfortable attachment of the control box to the tactical vest, properly mount the clip correctly onto the vest's MOLLE straps. Attach the Clarus II clip over two MOLLE straps ensuring the lower part of the clip folds over the MOLLE strap to lock in place.

For additional retention, you can fasten the clip to the MOLLE straps using zip ties. Route one or two zip ties through the clip mounting holes and around the MOLLE webbing, then tighten firmly to eliminate any unwanted movement.

8 EXTERNAL EAR RETAINERS

The external ear retainer on the Clarus II headset is designed to provide maximum comfort and a secure grip on the ear, even during intense activity.

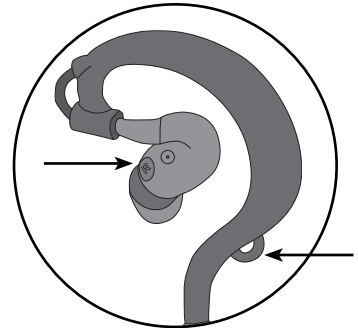
Cutting Mark for Left/Right Ear Identification:

The ear retainer features a curved marking on its side. The purpose of this marking is to allow you to quickly and easily distinguish between the earpiece meant for the right ear and the one for the left ear - even in darkness or while wearing gloves.

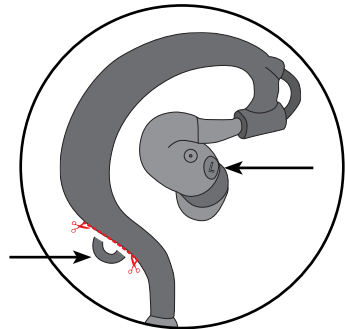
How to Use the Marking:

Choose which ear you want to identify using the marking - for example, the right ear. Take the left ear retainer and carefully cut along the marked line shown in the illustration, making the marking specific to the right ear.

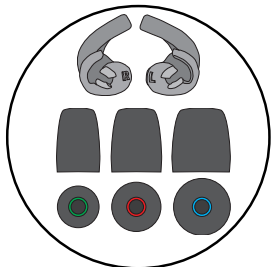
After the cut, you will be able to distinguish by touch alone between the right ear retainer with the intact marking and the left one with the marking cut off.



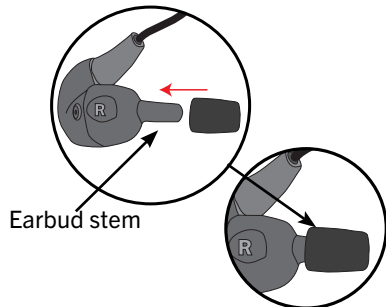
Right earpiece with marking – can be identified by touch, even at night or when wearing gloves.



Left earpiece – cut mark for right/left identification.



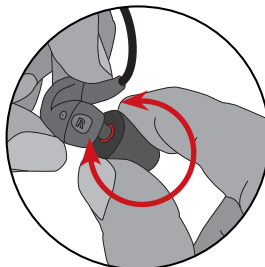
1. Select the largest ear tip that fits comfortably in your ear.
***Optional: Internal Ear Retainer.** (see next page).



2. Position the foam tip onto the earbud stem by sliding it into place.



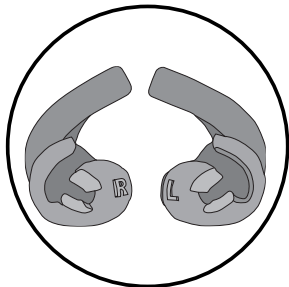
3. Compress the foam tip using a rotational motion until it becomes long and narrow.



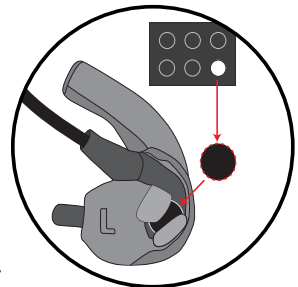
4. Quickly insert the earbud into your ear canal and hold for a few seconds to allow the foam to expand within your ear. Then place the External Ear Retainer over the ear.

INSERTING OPTIONAL INTERNAL EAR RETAINER

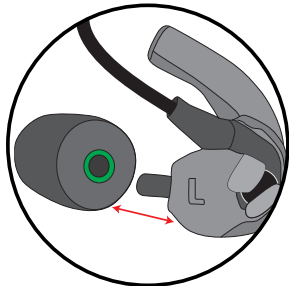
In high-wind conditions, use the internal ear retainer to reduce wind noise.



1. Select a pair of Internal Ear Retainers that are suitable for your ear size



2. Enclose the earbud with the Internal Ear Retainer, ensuring that the earbud stem remains extends outward. Place wind foam inside the retainer's cavity positioning it directly over external mic.



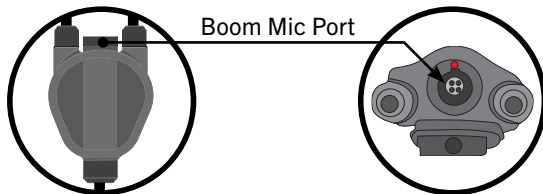
3. Slide the foam tip over the earbud stem.



4. Insert the earbud into your ear canal.

EXTERNAL MIC CONNECTION 11

The Protego PRO headset allows you to connect an external microphone to the system. When you plug an external microphone into the headset jack, it becomes the primary microphone. If the external microphone is removed, the system will revert to its default "In-Ear" Mode.



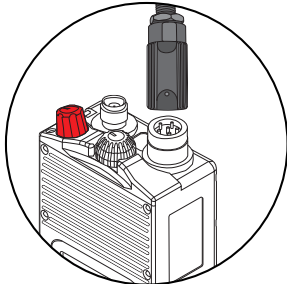
Available External Microphone Options:



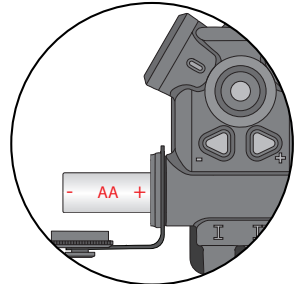
Boom Microphone for a vest



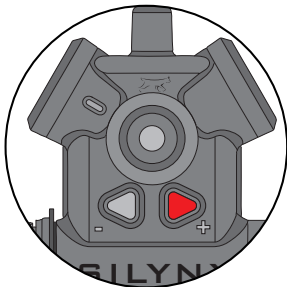
Gas Mask Microphone Connection



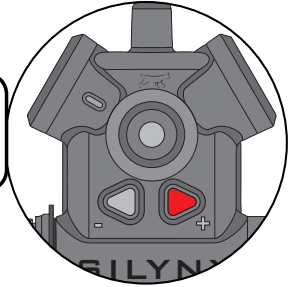
1. Connect the radio cable adapter to the radio and power it on. The unit is usually powered by the radio. In a dual comms setup, only one radio needs to provide power.



2. If your radio or communication device doesn't provide power to the headset, use AA battery.



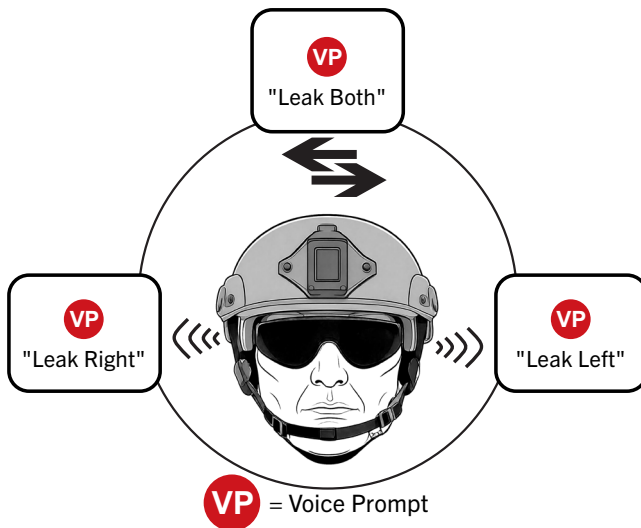
VP = Voice Prompt



3. To power on the system, press and hold "+" for 5 seconds until you hear the "Unit On" prompt. The system will then announce the connected radio type.

4. To power off the system, press and hold the "-" key for 5 seconds until you hear the "Unit Off" prompt.

When the system is powered on, a sound leak test is initiated automatically, followed by two beeps (one for each ear). This test indicates that the ear foams are correctly placed for optimal performance and protection. After the test, if a sound leak is detected, a voice prompt will announce: “Leak Left”, “Leak Right”, or “Leak Both”. If a leak is detected, adjust the earbud placement or try a larger ear foam for a better seal. To manually initiate the test, press the [-] and [+] buttons simultaneously for 4 seconds.

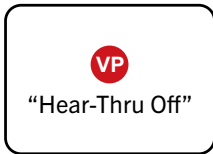


Note: The leak test serves as a preliminary indication and does not ensure the complete sealing of the earbud.

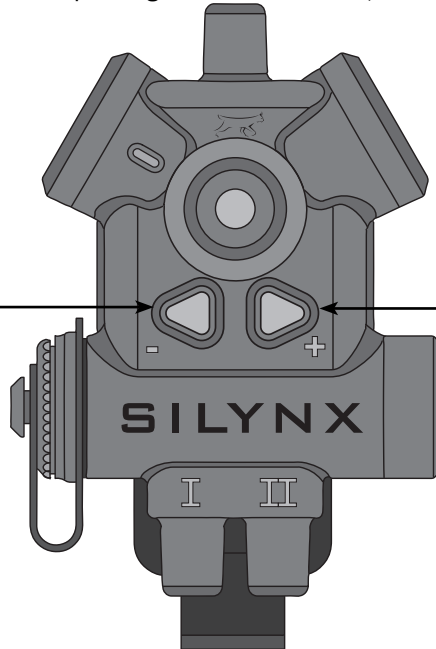
The “Hear-Thru” feature allows users to hear ambient sounds while wearing the headset. It enhances situational awareness by amplifying external sounds, without compromising hearing protection. Users can adjust Hear-Thru sensitivity by modifying the level of external sound depending on the environment, ensuring both awareness and protection in various operational scenarios.

Press (-) key to decrease Hear-Thru sensitivity level

Press (+) key to increase Hear-Thru sensitivity level



VP = Voice Prompt

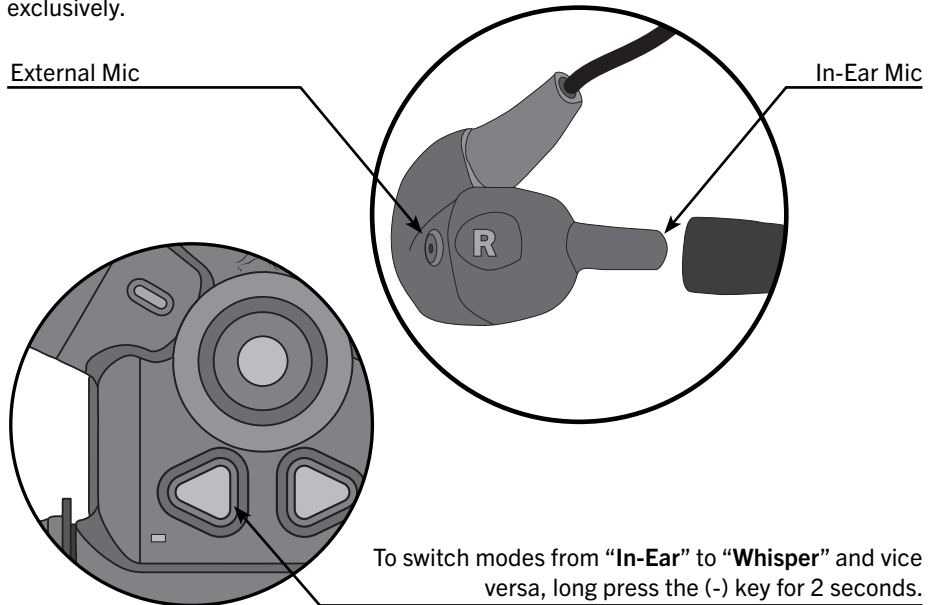


Note: In HAHO/HALO and strong wind environments, it is recommended to decrease the Hear-Thru to the lowest level.

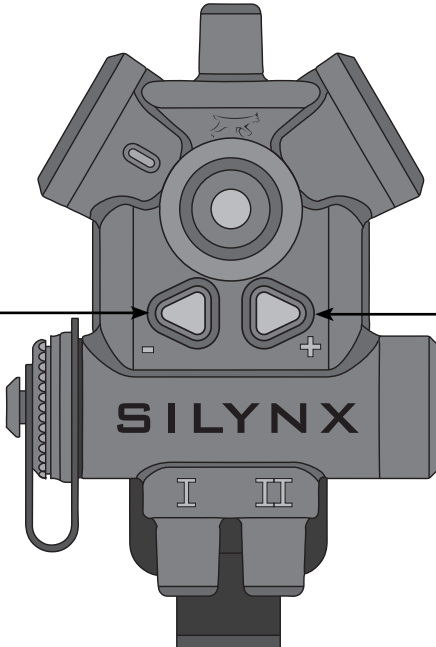
The Clarus II system offers two speech microphone modes:

- 1. In-Ear Mode (Default mode):** The internal microphone transmits the user's voice directly from the ear canal.
- 2. Whisper Mode:** The external earbud microphone captures the user's voice.

In quiet environments, users can activate Whisper Mode for better sensitivity to low-volume speech. In noisy environments, it is recommended to use In-Ear Mode exclusively.



Replace with Drone Detection Mode improves situational awareness by enhancing environmental audio detection of drones. The system amplifies and filters specific frequency ranges typically produced by drone motors and propellers, enabling early auditory awareness in operational environments.



The diagram shows the front view of the SILYNX control panel. It features a central circular display, two triangular buttons labeled with minus (-) and plus (+) signs, and a microphone on the left side. The brand name 'SILYNX' is printed across the middle. Below the panel are two foot pedals labeled 'I' and 'II'. Arrows point from the text boxes to the minus and plus buttons.

1. Press the (+) key repeatedly until you hear: "Maximum Hear-Thru."
2. Press and hold the (+) key until you hear: "Drone Detection."
3. Press the (-) key once to exit Drone Detection and return to Maximum Hear-Thru mode.

VP
"Hear-Thru Off"

VP
"Maximum Hear-Thru"

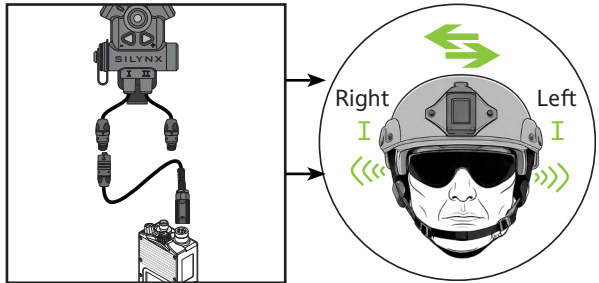
VP
"Drone Detection"

VP = Voice Prompt

Net monitoring relies on signals received from either the primary or secondary radio. The system differentiates the signals sent to each ear based on the radio connection(s).

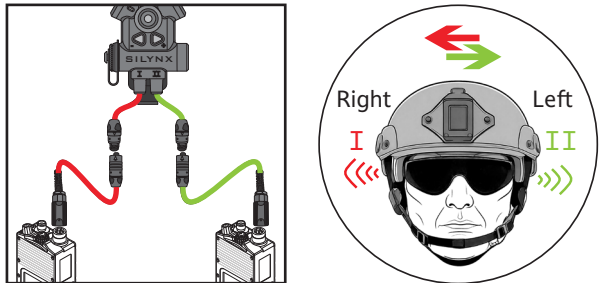
Connecting a single radio:

When one radio is connected, the primary signal will be heard in both ears.



Connecting two radios:

When both radios are connected, the primary signal is transmitted to the right ear, and the secondary in the left. Each network is assigned a different PTT button on the Clarus II.

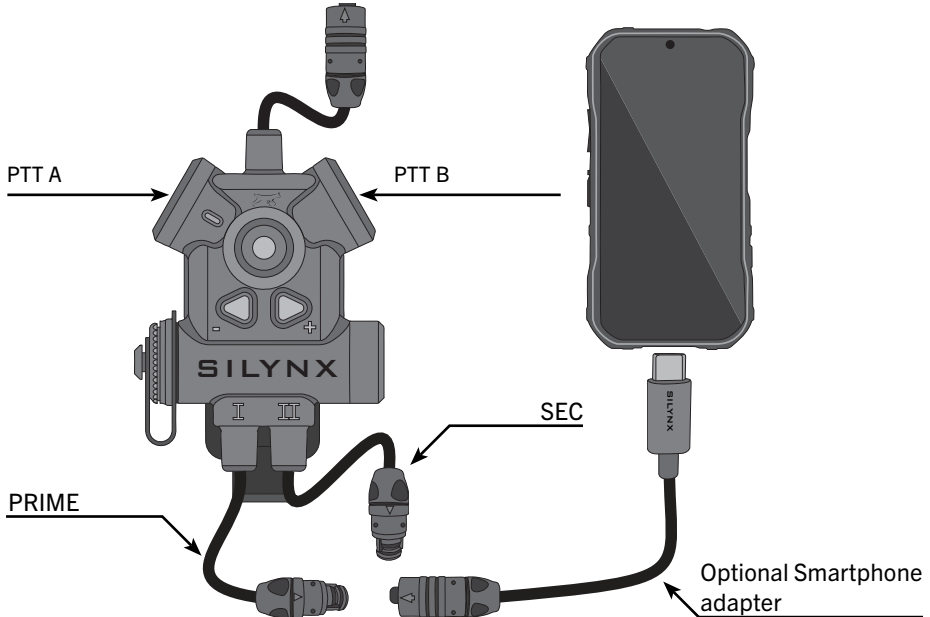


SMARTPHONE CABLE CONNECTION

When a phone is connected to one of the system ports using the optional phone adaptor:

- Hold PTT (A if connected to PRIME, B if connected to SEC) to transmit your voice to the phone while the button is pressed.
- Short press the same PTT to answer or end a call.

Note: Use the correct PTT button according to the phone's connection on the Clarus II.



SMARTPHONE BLUETOOTH CONNECTION*

19

The Clarus Bluetooth adaptor is an optional accessory that enables encrypted wireless connection between Clarus II and a mobile device.

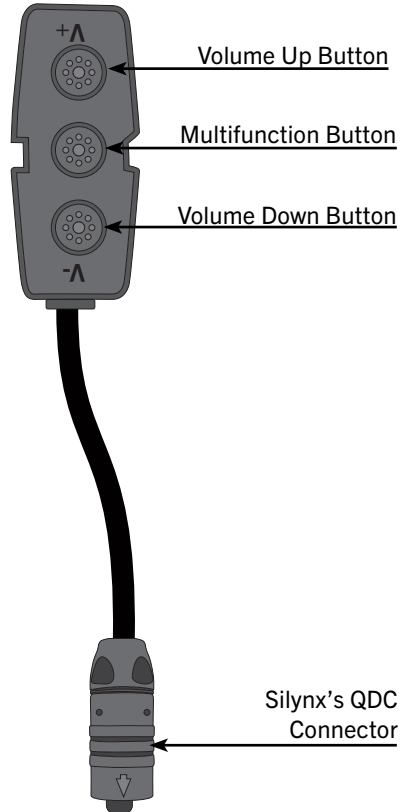
It allows phone connectivity without cables, supporting simultaneous communication with both the phone and a radio, improving user efficiency.

With the adaptor you can:

- Answer and end calls
- Control volume
- Play or pause music

The BT dongle complies with Bluetooth Secure Connection Mode (ECC/AES-CMAC) and operates at Security Level 5.1, pre-configured for secure use.

Refer to the Bluetooth operating guide for detailed instructions.

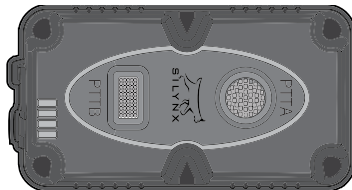
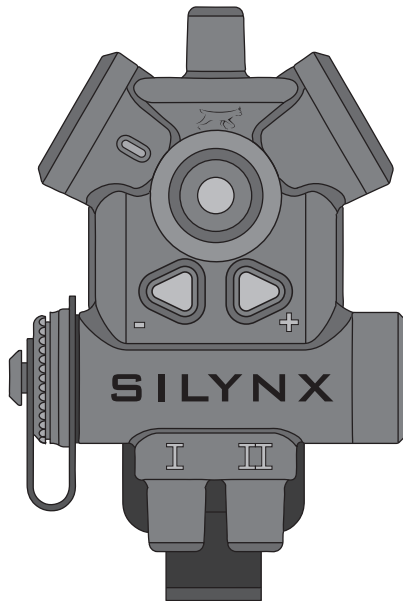


*Optional

1. Power on Clarus II.
2. Press either PTT buttons on Clarus II 5 times, rapidly within the first minute of powering on.
3. After the fifth press, wait until you hear a slow, repetitive beeping tone in the headset. This indicates that the Clarus II is in pairing mode.
4. Position the MWPTT within 2 feet of the Clarus II.
5. Press both PTT buttons on the MWPTT unit simultaneously.
6. A series of three rapid beeps will signify that the pairing has been successfully completed.

Note: Pairing must occur within 60 seconds after powering on the Clarus II. If you are unable to pair the MWPTT within the initial 60 seconds, power off the Clarus II system and initiate the pairing process again.

*The Micro Wireless Push To Talk (MWPTT) is an optional accessory.



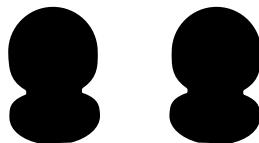
The Clarus II system supports two methods of transmitting the user's voice:

In-Ear Voice Capture: The system picks up sound waves directly from the ear canal, ensuring clear communication even in high-noise environments.

Detachable Boom Microphone: Provides clear speech transmission while reducing background noise.

Note: For proper use, speak directly into the correct side of the detachable microphone, as illustrated.

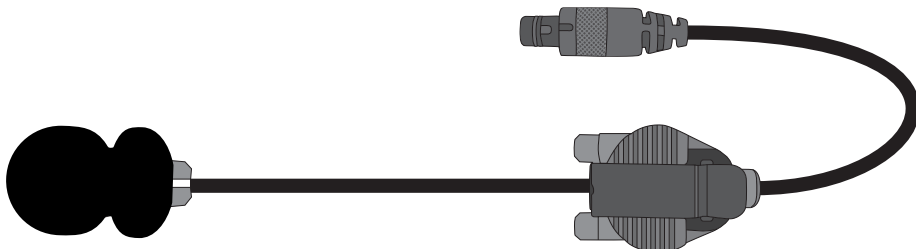
Without Windshield



Noise
Cancellation
Side



Speech
Side



PRE-RECORDED MESSAGE BUTTON (PTT C)

The pre-recorded message button (PTT C) supports two functions:

1. Pre-Recorded Messages (when no vehicle intercom or dual radio is connected).
2. Vehicle Intercom (ICS) Talk/Listen Control (when an ICS or dual net Radio is connected to the SEC (II) port).

Pre-Recorded messages (ICS not connected)

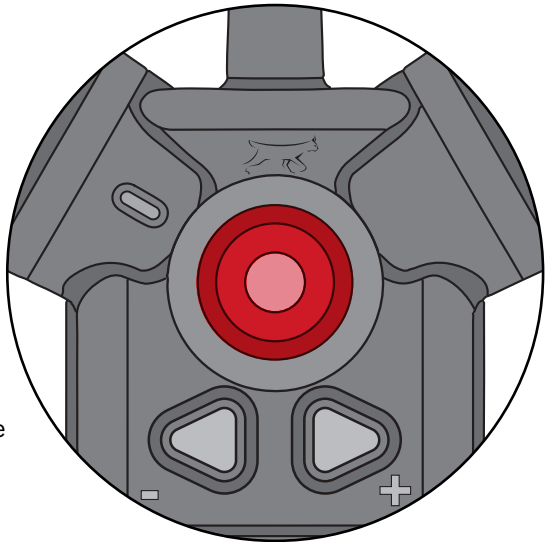
The Clarus II PTT "C" Button is designed for situations where speaking isn't an option, including high noise or in high-risk environments requiring complete silence. This functionality allows users, to transmit pre-recorded messages by clicking the center button in specific sequences.

- X2 Clicks transmits Message 1.
- X3 Clicks transmits Message 2.
- X4 Clicks transmits Message 3.
- X5 Clicks transmits Message 4.

To send a message, press the center button the required number of times using quick, consecutive clicks.

The messages will be heard in your ears and transmitted in your radio.

When two radios are connected, the message is transmitted through the primary radio.



PRE-RECORDED MESSAGE BUTTON (PTT C)

23

Vehicle intercom (ICS) connection (ICS is connected to SEC / II port)

When a vehicle intercom (ICS) is connected to the SEC (II) port:

- Pre-Recorded Messages are disabled.
- You will hear the vehicle intercom audio in your headset.
- The Center Button (PTT "C") controls Intercom Transmit / Receive as a toggle:

PTT C Toggle Behavior (ICS)

- Press PTT "C" once: switches to Intercom Transmit/Receive (you can talk on the vehicle intercom).
- Press PTT "C" again: returns to Receive-Only (you hear the intercom but you are unable to transmit).

Outbound (External) Communications from the Vehicle

- While ICS is connected on SEC (II), PTT B becomes the Vehicle Outbound transmit button.
- Use PTT "B" to transmit to the vehicle outbound / external communications network.

Note: If you are using a dual-channel radio normally PTT A = Channel 1 and PTT C = Channel 2 of the Dual Radio. When you connect the vehicle intercom to SEC (II):

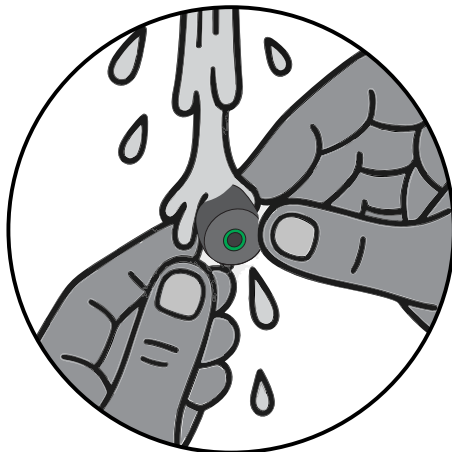
- PTT "C" is reassigned to Vehicle Outbound transmit.
- The radio's secondary channel PTT function is not available while the vehicle intercom is connected on SEC.
- PTT "A" continues to transmit on the radio's primary channel.

Note: If two dual channel radios are connected, PTT C is assigned to the primary radio's second channel while the secondary port will transmit on one channel only using PTT B.

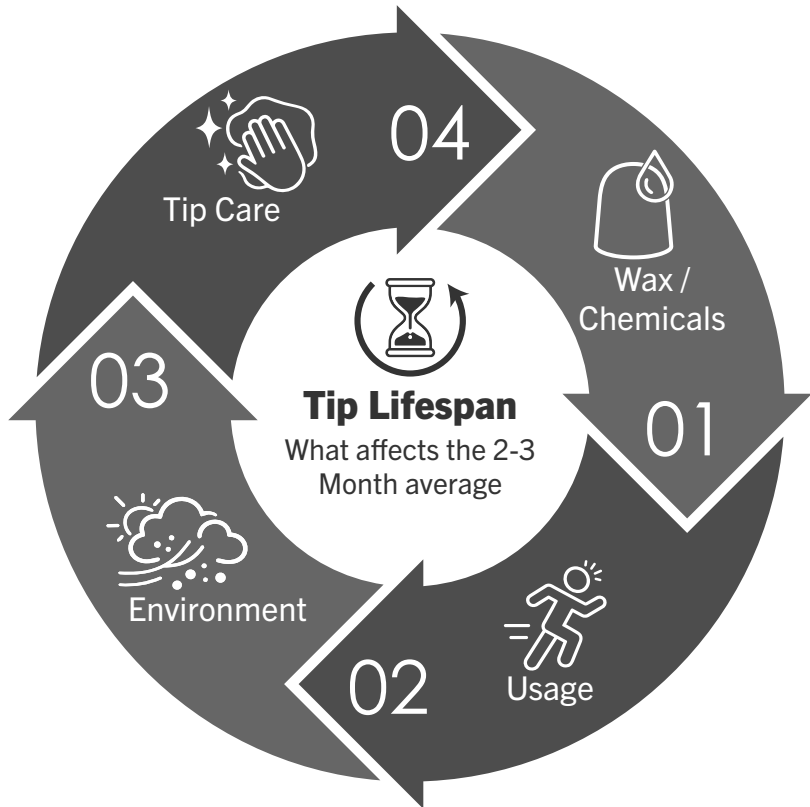
Proper cleaning and maintenance of your Clarus headsets are essential to ensure optimal performance and longevity. Accumulated earwax is a common cause of hearing malfunctions, so regular cleaning is strongly recommended.

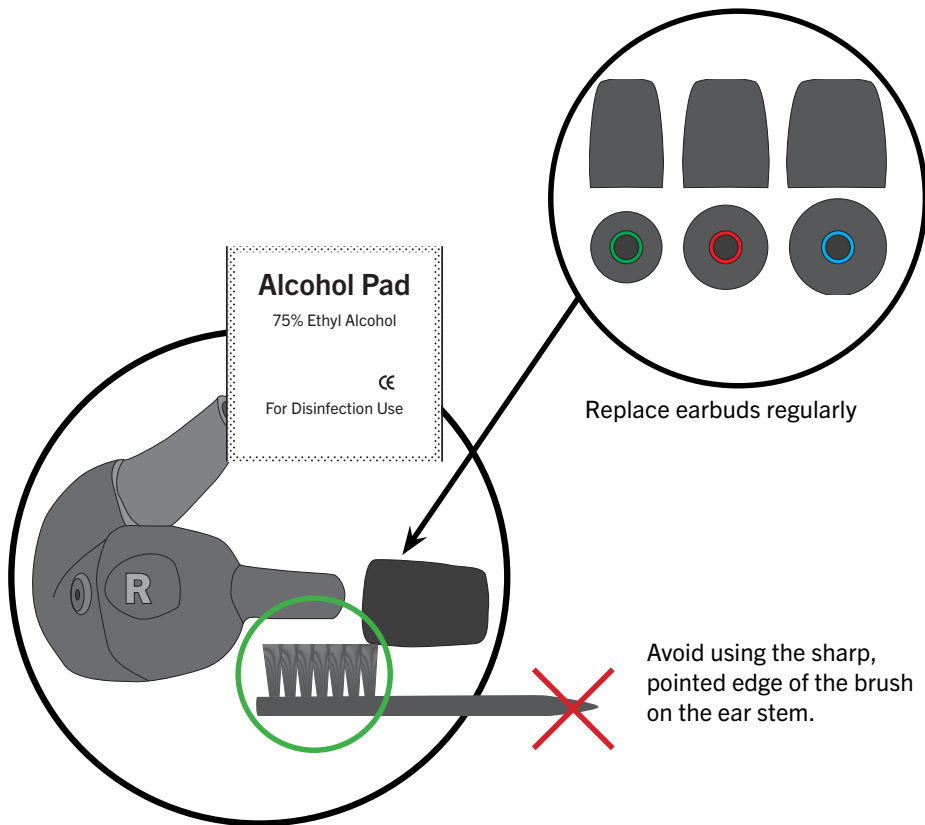
Cleaning Instructions:

- 1. Carefully remove the foam earbud by gently detaching it from the ear stem.**
- 2. Utilize the soft brush provided in your kit to gently remove earwax or debris on the end of the ear stem or the external mic on the earbud.**
- 3. Utilizing the Alcohol Pad: Wipe the ear stem and the external microphone with the provided alcohol pad to thoroughly remove any remaining earwax or debris.**
- 4. Avoid Sharp Objects: It is advised against using sharp or pointed objects to clean the ear stem holes. Such actions may damage the internal speaker and microphone, which could result in operational issues.**
- 5. Replacing Foam Earplug:**
Foam tips must be replaced if there are any signs of rips, tears, irrespective of the circumstances, or at least every two months to maintain optimal hygiene and functionality. The lifespan of the ear plugs can be influenced by various factors including ear wax, oils, chemicals, usage patterns, and environmental conditions.



The foam EarBuds are washable using clean lukewarm water.







PROTECTION FROM WITHIN™

PROPRIETARY NOTICE: This document contains information that is proprietary to Silynx Communications, Inc. It is provided exclusively for operational and support needs and is not intended for procurement activities. Silynx Communications, Inc. retains all rights related to procurement and manufacturing. Any use of this document, either directly or indirectly, requires prior written consent from an authorized representative of Silynx Communications, Inc.

www.silynxcom.com

1.866.325.1731 | info@silynxcom.com | customersupport@silynxcom.com

CLARUS II User Guide - DOC-USM000073 - March 2026
ALL RIGHTS RESERVED COPYRIGHT