

ClipTalk Transceiver Ultra small low power two-way UHF radio User Interface Specifications

Revision History

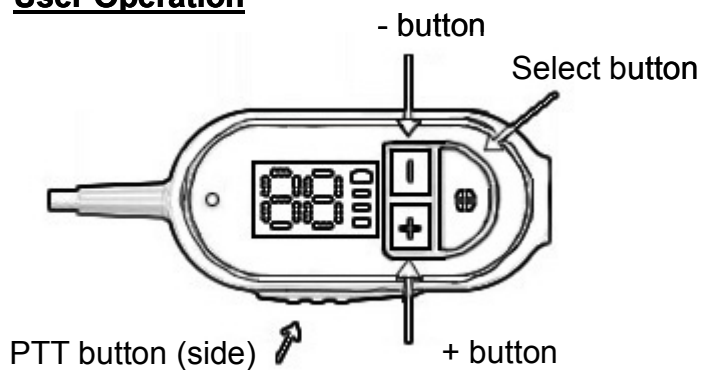
<u>Version</u>	<u>Description</u>	<u>Date</u>	<u>Author</u>
0	Release	9-17-2025	R Hollis
A	Added "BT Connected mode under programming mode	10-18-2025	R Hollis
B	Clarified UI volume and channel behavior	10/18/2025	J Paulson
C	Rewritten for clarity. Added "double beep" requirement for max and min volume. Eliminated flash requirement for channel display during Tx. Added double beep requirement for Tx 1minute timeout.	11-03-2025	R Hollis

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User Operation



- User controls
 - PTT button (side)
 - Select button
 - + button
 - - button
- Power on/off
 - Press and hold Select for 2 seconds to turn the radio power on.
 - The display will light with battery icon and channel number.
 - If there is no key activity for 5 seconds, the display will turn off.
 - If there is no key activity, the bottom segment of the battery icon will flash every 5 seconds to indicate that the unit is active and power is on.
 - Press and hold Select for 2 seconds to turn the radio power off.
- Transmit
 - Press the PTT button to transmit. This is a momentary key and the radio will transmit while the key is depressed.



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If the PTT is pressed for 1 minute the unit will stop transmitting, the display will go blank and the user will hear a “double beep”. The radio will not transmit again until the PTT is released and pressed again.

- The channel number will show steady during transmission.
- Display Channel & Volume
 - If the display is blank, pressing SELECT will cause the display to turn on and show the current Channel.
 - The current Channel will always be shown when the display is active.
- Volume Up/Down
 - A quick press of the “+” (less than 2 seconds) will increase the volume one level and play a 400 Hz tone at the corresponding volume level selected. If the volume setting reaches maximum (9) the next press of the “+” key will produce a “double beep” to indicate that volume is at the maximum.
 - A quick press of the “-” (less than 2 seconds) will decrease the volume one level and play a 400 Hz tone at the corresponding volume level selected. If the volume setting reaches minimum (1) the next press of the “-” key will produce a “double beep” to indicate that volume is at the maximum.
 - The volume level is never shown on the display.
- Channel selection
 - A long press on the + or – button greater than 2 seconds will adjust the channel in the appropriate direction.
 - Once the “+” channel change occurs, a tone of 1000 Hz will be played to indicate an increased channel.
 - Once the “-” channel change occurs, a tone of 1000 Hz will be played to indicate an increased



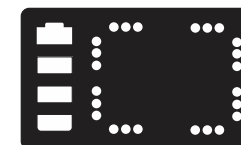
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channel.

- Continuing to hold the + or – button for another 0.5 seconds will increment or decrement the continuously at a 2 Hz rate until the button is released.
- The channel display has a value of 1 to 22 and rolls from 22 to 1 when increased and 1 to 22 when decreased.
- Key timeout
 - After 5 seconds of no key activity, the display will go blank.
- ANC (Noise canceling) On/Off
 - Holding down the PTT when turning the radio on will cause ANC to toggle between on and off. When the unit powers on, the display will show either “On” or “Of” depending on the previous state. “On” and OFF” are displayed for 1 second and then display returns to standby.
- Programming mode
 - To enter programming mode, confirm that the unit is turned on then hold down the + and – keys together for 3 seconds. The display will show the 3 dots in each outside segment in a racetrack pattern. The unit is now discoverable with the ClipTalk phone app.
 - When the unit is connected to the app, the unit will display a “cross” patter that will blink at a 1Hz rate.
 - Pressing PTT will cause the radio to exit programming mode and return to FRS standby.



Power:

TX/RX:462.5500-462.7250MHz:23.75dBm; 467.5625-467.7125MHz: 23.25 dBm

BLE: 2402-2480MHz: 0.67dBm

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FCC Statement

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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 any interference received, including interference that may cause undesired operation.

Note: 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.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

SAR tests are conducted using standard operating positions accepted by the FCC/ISED with the device transmitting at its highest certified power level in all tested frequency bands, although the SAR is determined at the highest certified power level, the actual SAR level of the device while operating can be well below the maximum value.

Before a new model device is available for sale to the public, it must be tested and certified to the FCC/ISED that it does not exceed the exposure limit established by the FCC/ISED, Tests for each product are performed in positions and locations as required by the FCC/ISED.

For body worn operation, this device has been tested and meets the FCC/ISED RF exposure guidelines when used with for this product or when used with an accessory that contains no metal.

To maintain compliance with the FCC/ISED's RF exposure guidelines, hold the transmitter and antenna at least 1 inch(2.5 centimeters) from your face and speak in a normal voice, with the antenna pointed up and away from the face. This equipment complies with FCC/ISED

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radiation exposure limits set forth for an uncontrolled environment. In order to comply with the FCC/ISED RF exposure requirements, the antenna installation must comply with following: Users must be fully aware of the hazards of the exposure and able to exercise control over their RF exposure to qualify for the higher exposure limits.

Your wireless hand-held portable transceiver contains a low power transmitter. This product sends out radiot Push-to-Talk (PTT) Button is pressed. The device is authorized to operate at a duty factor not to exceed 50%.

ISED RSS Warning:

This device complies with Innovation, Science and Economic Development Canada licence-exempt RSS standard(s). 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'ISED applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Les tests SAR sont effectués à l'aide d'une position de fonctionnement standard acceptée par l'ISED, où l'équipement transmet à son niveau de puissance certifié le plus élevé dans toutes les bandes de fréquences testées, et bien que le SAR soit déterminé au niveau de puissance certifié le plus élevé, le niveau de SAR réel de l'équipement en fonctionnement peut être bien inférieur au maximum. Les véhicules neufs doivent être testés et certifiés à l'ISED avant d'être vendus au public et ne doivent pas dépasser les limites d'exposition fixées par l'ISED. Les tests de chaque produit sont effectués aux endroits et aux endroits requis par l'ISED. Pour une utilisation sur le corps, l'appareil est testé et conforme aux directives d'exposition aux RF de l'ISED lorsqu'il est utilisé avec les accessoires spécifiques pour ce produit ou avec des accessoires sans métal. Pour rester en conformité avec les directives d'exposition aux RF de l'ISED, maintenez l'émetteur et l'antenne à au moins 1 pouce (2,5 cm) du visage et parlez d'une voix normale, l'antenne étant dirigée vers le haut et éloignée du visage. L'appareil est conforme aux limites d'exposition aux rayonnements spécifiées par l'ISED pour les environnements non contrôlés. Pour être conforme aux exigences d'exposition aux RF de l'ISED, l'installation de l'antenne doit répondre aux exigences suivantes: Les utilisateurs doivent être pleinement conscients des dangers de l'exposition et être en mesure de contrôler leur exposition aux RF afin de se conformer aux limites d'exposition plus élevées. Votre émetteur - récepteur portatif sans fil contient un émetteur de faible puissance. Ce produit émet un signal de radiofréquence (RF). Lorsque vous appuyez sur le bouton Push to talk (PTT), ne doivent pas dépasser les limites d'exposition fixées par l'ISED. Les tests de chaque produit sont effectués aux endroits. L'installation est autorisée à fonctionner avec un facteur d'occupation ne dépassant pas 50%.

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