

TRICS T10 User guide

Dear user,

The attached document contains general usage instructions, which should be read carefully before the first use.

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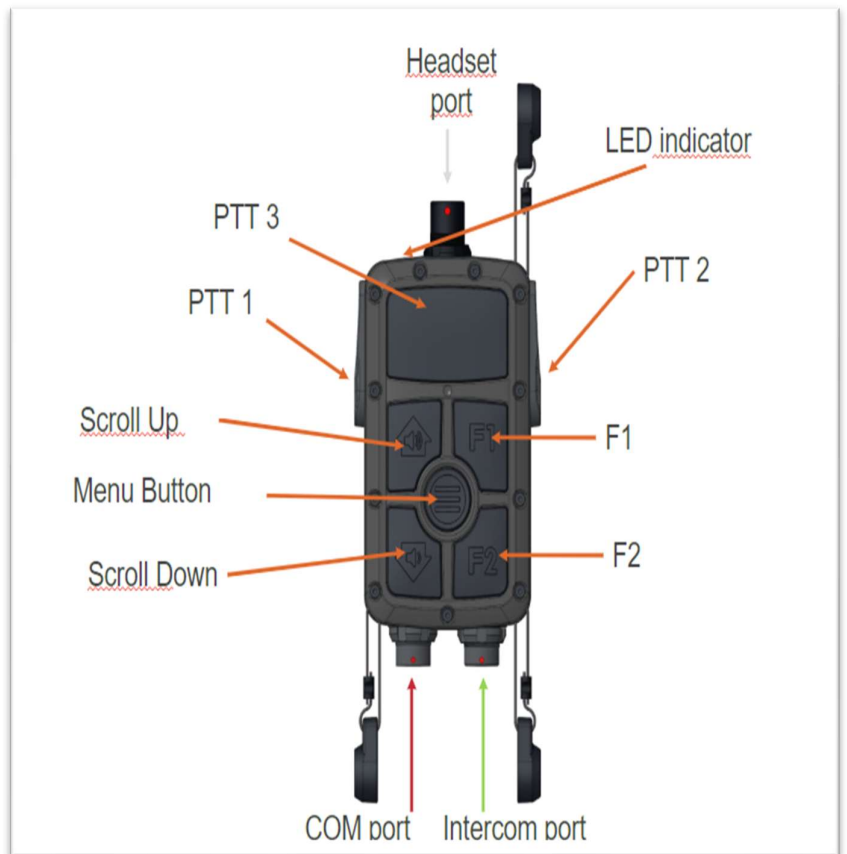
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1. TRICS T10 – Introduction

- TRICS T10 is a body worn radio COM-controller device that can control up to two radios. TRICS T10 also provides possibility to connect wirelessly into Savox Pack-COM system which enables wireless communication within the team.
- TRICS T10 enables:
 - Communication over personal radios connected to WPCU
 - Full duplex, low latency communication to Savox Pack-COM Intercom
- TRICS T10 has a replaceable battery with approx. 30h when fully charged.
- Voice prompted menu.
- Uses DECT frequency band
- IP68
- Compliant with MIL-STD-461 & MIL-STD-810H
- Operational Temperature Range:
 - -35°C - +60°C
- Charging temperature Range:
 - -30°C - +60°C

2. TRICS T10 User Interface

1. PTT 1
2. PTT 2
3. PTT 3
4. Menu-button
5. Scroll up -button
6. Scroll down -button
7. F1 -button
8. F2 -button
9. LED Indicator
10. Headset port
11. COM port
12. Intercom port
13. Removable battery (Back side)
14. Clothing clip or Molle attachment clip (Back side)



Button functions:

Button	Function 1	Function 2
PTT 1	Personal radio PTT control	
PTT 2	Personal radio PTT control	
PTT 3	Intercom PTT	Duplex/Simplex control
Menu -button	Power On/Off	Enter / Select (Menu)
Scroll up -button	Volume up	Scroll (Menu)
Scroll down -button	Volume down	Scroll (Menu)
F1 -button	Intercom radio PTT	Base station change
F2 -button	Intercom radio select	Base station change

LED information

LED color	Constantly lit	Blinking or breathing
Green	Paired, no wireless connection	Paired, wireless connection
Red	Powering off	Error status
Blue	Pairing mode	
Yellow	Unpaired	Charging

3. Before operation

1. Check the connectors for any dirt or damage, remove and clean any dirt (see comments in maintenance below)
2. Attach battery pack to the device
 - a. Use a charged battery or charge the battery after attachment.
3. Attach the device on a suitable place on the chest or shoulder, using the clothing clip or molle clip.
 - a. Note that the placement may impact the device wireless range.
4. Attach headset to the headset port, note that the red dots on connectors are aligned.
 - a. Supported headsets: Savox Noise-COM 100, Savox Noise-COM 200
5. Place the connected headset on your head or in your ears.
6. Make sure that the connector caps are in place for connectors not in use.

4. Operation

1. Wireless Intercom Use

Note!

Before Wireless use, TRICS T10 needs to be paired with the Wireless Interface Module (WIM), connected to IMP Intercom. Set the WIM to pairing mode with a short press of operation button. For further information on WIM's operation, see the instructions in IMP user manual.

a. Pairing TRICS T10 with base Station

1. Make sure the WIM you want to pair with is in pairing mode, according to picture. More information can be found on IMP Intercom manual.
2. Enter "Activate pairing" in the Wireless section of TRICS T10 menu
3. Choose what base station slot is used for paired base station. User can choose between "auto" or numbered slots from 1 till 12.
 - i. Auto: Device selects automatically next available slot
 - ii. 1-12: Assign base station to specific slot when paired.
4. TRICS T10 announces "Pairing successful, base station X connected" when wireless connection is established. LED changes from blue to green
 - i. User can switch between paired base stations (connects if in range) by pressing Activation button and then F1 or F2 to start scrolling through saved base station slots.

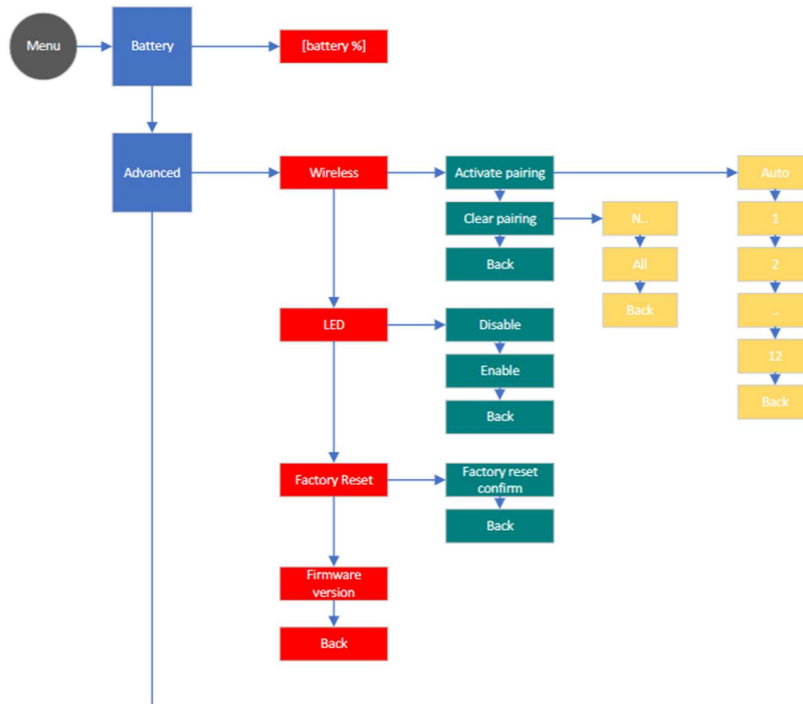
If pairing time has run out and no pairing has happened pairing mode will automatically turn off and voice prompt "Pairing deactivated" is heard.

- ii. Pairing mode deactivates also after timeout.

To turn off pairing mode manually, select "deactivate pairing" in the Wireless section of the menu.

To clear all paired base stations, select "clear pairing" in the Wireless section of the menu. User can choose to clear:

- i. All: Clear all pairings
- ii. 1-12: Clear only selected pairing slot
 1. only paired slots available



2. Personal Radio Use

1. Connect the personal radio to the COM port.
2. Power on the TRICS T10 by pressing the Activation -button.
3. Activate radio transmission by pressing PTT 1 and/or PTT 2, depending on the number of connected radios or channels in the radio.

4. Notices for Intercom use

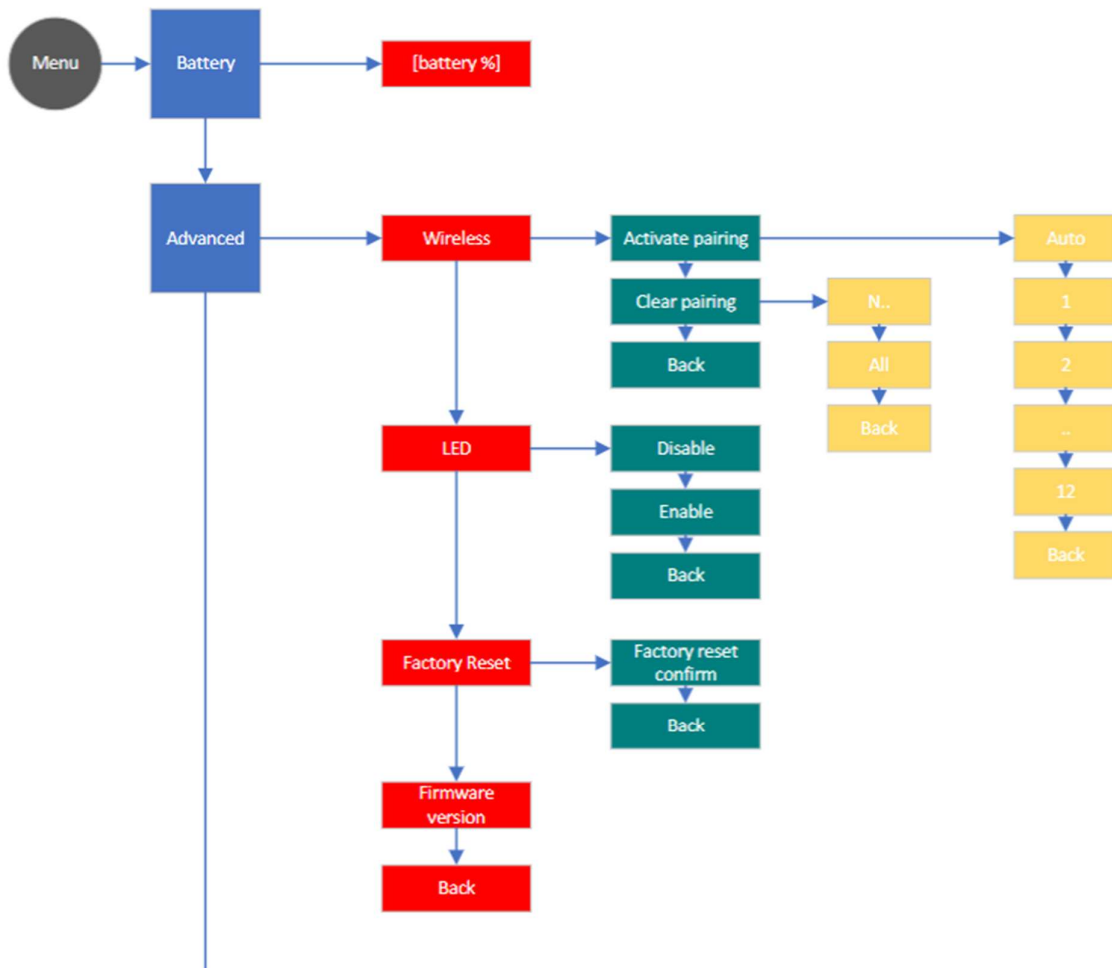
Both wireless and wired methods to join to IMP Intercom allows TRICS T10 to access one Intercom channel. IMP configuration defines which channel is used for wireless and wired.

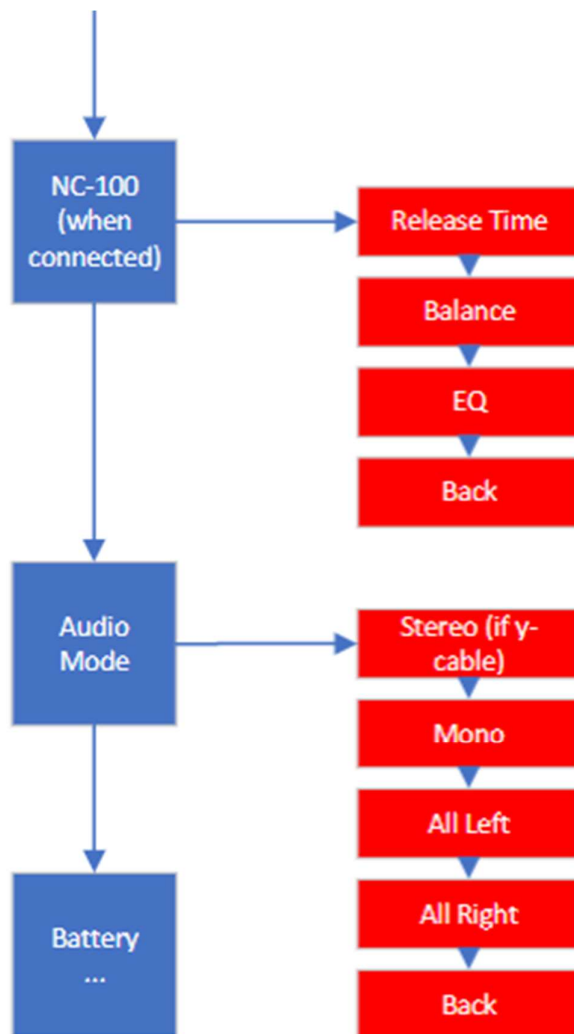
Basic principle of use of IMP Intercom radios is that multiple radios can be simultaneously hearable but only one at the time can be selected where to talk. User can monitor multiple radios, then select a one where to talk. This principle is also implemented on TRICS T10 for wireless and wired operation modes. IMP configuration defines privileges and available radios for each WIM which inherits same configuration for its wireless clients. In wired mode, configuration can be unique for each user position. IMP Intercom can have multiple WIMs for different wireless user groups.

5. Changing base station

User can save multiple base stations into their T10 device. User can choose which from saved base stations one wants to use. Choosing base station happens by pressing "menu" and then "F1". Voice prompt

5. TRICS T10 menu





NOTE!

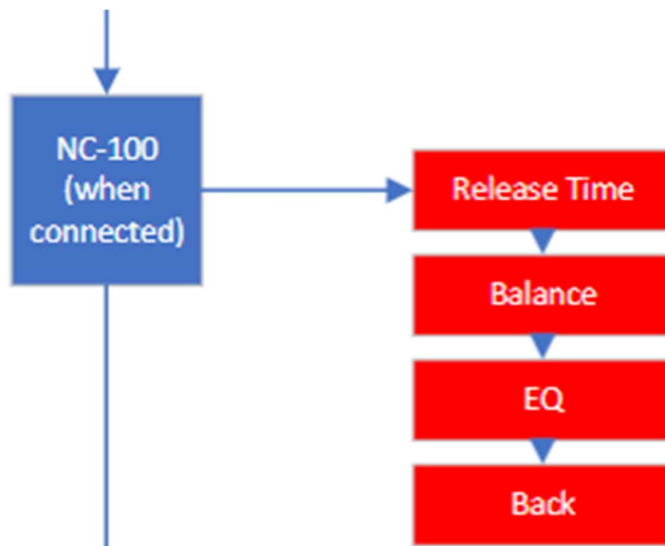
- the device will automatically exit menu after selecting a function or changing a setting in menu.
- Some menu levels are hidden until certain conditions are met, either:
 - - NC-100 is attached to the product
 - - The radio cable is attached to the COM port

6. Wireless

- In Wireless section user can:
 - Activate/deactivate wireless pairing mode
 - Auto: Device selects automatically next available slot
 - 1-12: Assign base station to specific slot when paired
 - Only free slots available for selection
 - Pairing mode deactivates also after timeout if no new base stations are found
 - Clear pairings
 - All: Clear all pairings
 - 1-12: Clear only selected pairing slot
 - only paired slots available

7. Use with Noise-COM 100 in ear headset

1. Scroll up/down -buttons adjusts headset hear through volume
2. Enter radio volume control by pressing XXX
3. Additional Noise-COM 100 Menu is activated in the main menu:



8. Use of radios connected to IMP Intercom

- IMP Intercom can have multiple radios. All the radios can be monitored simultaneously [1], but only one at the time can be selected where to talk.
- IMP Intercom radio where to talk, can be selected with the F2.
- Each short press of F2 changes the radio (Alpha, Bravo, etc...). A voice prompt will be heard indicating the selected radio [2].
- IMP Intercom radio can be activated for talk by keeping F1 pressed.

Notices

- All the TRICS T10's connected wirelessly to the same IMP Intercom's base station (WIM) shares the same IMP configuration and privileges. For example monitored radios are all the same and selected radio for talk is the same for all these users.
- IMP Intercom can have multiple base stations (WIMs) for different wireless user groups.
- When WPCU is connected to IMP Intercom by cable, user position-based configuration is used, allowing more unique configurations and privileges.

[1] Monitoring can be limited for each radio separately on the IMP configuration.

[2] Available radios for selection can be limited on the IMP configuration.

9. External radio use

- Once radio(s) is/are connected to device PTTs of the radios can be activated by using PTT 1 & 2
 - If one radio connected PTT 1 is used
 - If two, PTT 1 will control left (From user's point of view) and PTT2 right
- Personal radios can be connected by using COM port

Other info

- The device informs the user when the connection is bad and/or when the user is leaving the base station's range with beeps (1-3 beeps)
- The device has an internal antenna, so the placement of the device affects the signal strength.
- Always keep the protective caps of the device's COM and Power ports in place, if suitable cables are not attached to the ports.

10. Power management

TRICS T10 has a replaceable 2600mAh, 3,65V rechargeable and replaceable battery.

Instructions for replacing battery are shown below.

Charging TRICS T10:

TRICS T10 is charged when connected to IMP Intercom via cable and Intercom is powered on.

TRICS T10 can be charged with a separate USB charging cable (pn: K600730) connected to COM port.

Storage:

Make sure the battery level is between 15-50% during longer storage time.

The rechargeable battery can be charged separately in a multi charging case.

Battery status Check:

Double press Activation button. Battery level announced in %.

11. Maintenance

- Unit can be gently washed with a sponge with lukewarm water and diluted dish washing detergent. Dry carefully before use.
- Check the connector ports and cable connectors, remove any dirt
- Check dust caps (Part number M005836) for damage and replace, if necessary, before operation. Always use dust caps for connectors which are not in use.
- Cables and connectors should be checked for damage. Ensure they are clean, dry and free from contamination. Wash in fresh water, if necessary, and dry before use. If the connector is hard to connect or has a bad connection, please use small amount of lubricant meant for electronics. Damaged cable or connector shall always be replaced.
- Do not sink the device in water or other liquid.
- Do not expose the device to high temperatures for long periods of time. High temperatures can shorten the lifetime of electronic devices, damage the battery and melt certain plastics.
- Do not expose the device to sharp objects as this can cause scratches and damage.
- Do not put anything inside the device as this may damage internal components.
- Do not dismantle the device as it does not contain serviceable parts. Disassembling the device may expose dangerous voltage levels or other hazards.
- Do not expose the device to low temperatures for long periods of time. After returning to normal temperatures, moisture can form inside the device and damage the electronic circuitry.
- Do not drop, knock or shake the device. Rough handling can break internal circuit boards and delicate mechanical parts.
- Do not use harsh chemicals, cleaning agents or strong detergents, when cleaning the device.
- Make sure the battery level is between 15-50% during longer storage time (more than 3 months)
- Please contact Your distributor or savox@savox.com if your device need repairing.

12. Safety

Health and Safety Information

WARNING: Failure to follow these safety instructions could result in fire, electric shock or other injuries or damage to your device or other property. Read all safety information below before using this device.

Damage: The device is made of metal and plastics, which could break if it is dropped or if it receives significant impact. Do not use the device if the device's casing is broken or cracked as this could result in injury.

Responsible Listening: Damage to hearing occurs when a person is exposed to loud sounds over time. Hearing loss may increase as sound is played at louder volumes and for longer durations. Individual susceptibility to sound-inflicted hearing loss and hearing problems may vary. In addition, the volume of sound produced by this device may depend on the nature of the sound, the device to which it is connected, the device settings and other external factors. There is no single volume setting that is appropriate for you or for every combination of sound, setting and equipment. Please use your personal judgment and common sense when adjusting the volume of the device.

Modification: Any changes or modifications to this device not expressly approved in this document could void your warranty and void your authorization to operate this equipment. Use only approved batteries. The use of any unauthorized accessories may be dangerous and may void the device's warranty if said accessories cause damage or defect to the device.

13. Regulatory Notices

US FCC

FCC ID: TUFWICS

This device complies with part 2 and 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.

This device has been tested and found to comply with the limits for a Class B digital device, pursuant to part 2 and part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when 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 communications. 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 FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. To maintain compliance with FCC RF exposure compliance requirements, please follow the operating instructions as documented in this manual. This device must not be co-located or operating in conjunction with any other antenna or transmitter.

You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Canada ISED

IC: 6574A-WICS

This Category I radio apparatus complies with Canadian RSS-102 and RSS-213.

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.

This device complies with ISED radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. To maintain compliance with ISED RF exposure compliance requirements, please follow the operating instructions as documented in this manual. This device must not be co-located or operating in conjunction with any other antenna or transmitter.

CAN ICES-003(B)/NMB-003(B)

Cet appareil radio de catégorie 1 est conforme aux normes canadiennes RSS-102 et RSS-213.

L'utilisation de ce dispositif est autorisée seulement aux conditions suivantes: (1) il ne doit pas produire de brouillage et (2) l'utilisateur du dispositif doit être prêt à accepter tout brouillage radioélectrique reçu, même si ce brouillage est susceptible de compromettre le fonctionnement du dispositif.

Cet appareil est conforme aux limites d'exposition aux rayonnements d'ISED établies pour un environnement non contrôlé. Les utilisateurs finaux doivent suivre les instructions d'utilisation spécifiques pour satisfaire à la conformité en matière d'exposition aux RF. Afin de maintenir la conformité aux exigences d'ISED en matière d'exposition aux RF, veuillez suivre les instructions d'utilisation telles que documentées dans ce manuel. Cet appareil ne doit pas être colocalisé ou fonctionner en conjonction avec une autre antenne ou un autre émetteur.

CAN ICES-003(B)/NMB-003(B)