Manuals+

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SPINTSO Refcom Ii Pro Units Charging Station Instruction Manual

REFCOM II PRO

MANUAL VERSION DEF 1.0A/EN

SPINTSO

Contents [hide]

Compliances

EU Compliances, CE

Specific Absorption Rate (SAR) certification information

The REFCOM II PRO radio is designed to not exceed the recommended limits for exposure of radio waves.

Frequency band and output power

Bluetooth BDR/EDR +7.57dBm.

Bluetooth BLE, +7.67dBm.

Declaration of Conformity

Spintso AB declares that this device complies with directive 2014/53/EU.

Visit https://www.spintso.com/declaration-of-conformity to access the declaration of conformity.

Notified Body nr.

3052

Address

Spintso AB, Övre Slottsgatan 6, 753 10 Uppsala, Sweden

European Union, Disposal information

After this product has reached end of life, it shall be taken cared of properly. Please dispose the product to the recycling facility assigned by your authorities.

UKCA

Spintso AB declares that this device complies with the relevant requirements in: The Radio Equipment Regulations 2017 (SI 2017/1206)
UK approved Body: Derycom certification services, inc., with number AB3052.

Visit https://www.spintso.com/declaration-of-conformity to access the UKCA declaration of conformity.

FCC

This device complies with part 15 of the FCC Rules.

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 may cause harmful interference to radio communications if not installed and used in accordance with the instructions. 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 of the following measures:

– Reorient or relocate the receiving antenna.

– Increase the separation between the equipment and the 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.

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.
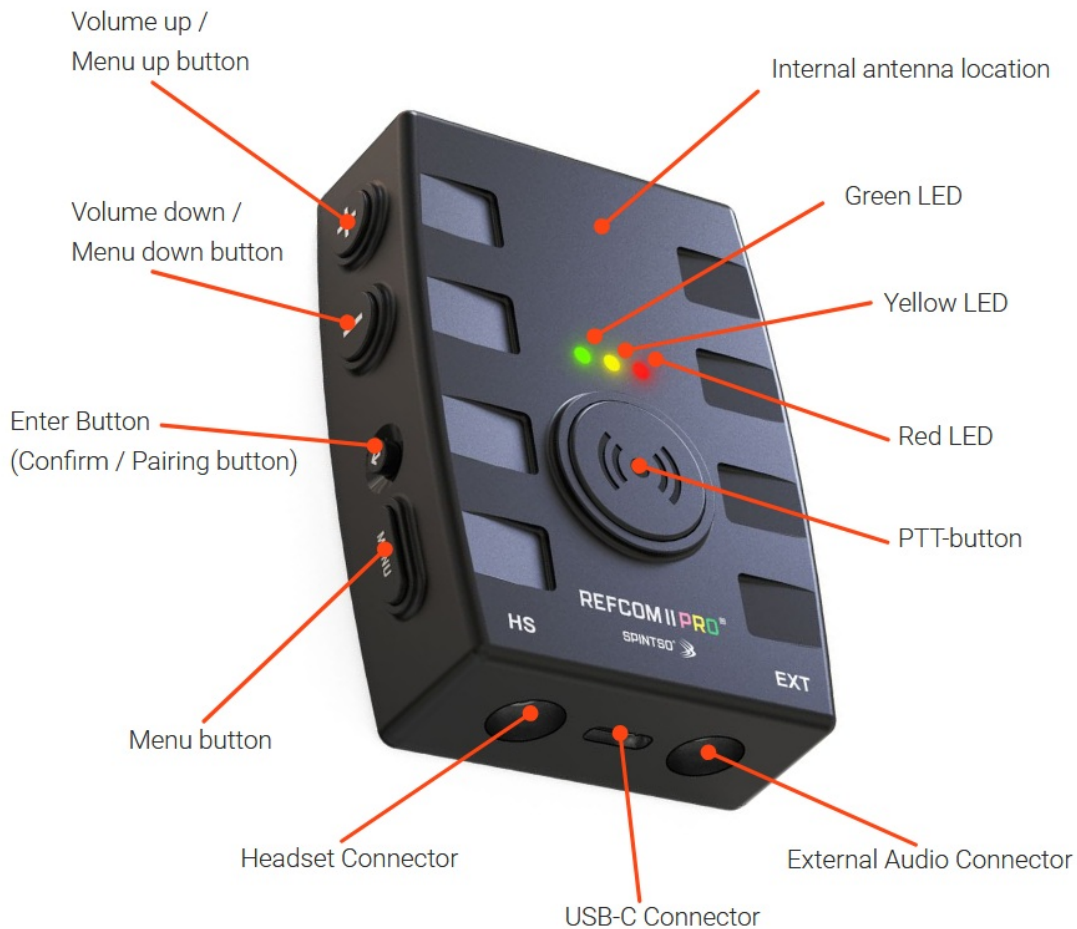
FCC ID: 2BBUE-R2P

General

The Spintso Refcom II Pro radio system is developed by Referees for Referees and is optimized for use in both indoor and outdoor sports environments. The system handles six users speaking in full duplex and features functionality for VAR and PA system connections.

Sections

Overview

Volume up /
Menu up button

Volume down /
Menu down button

Enter Button
(Confirm / Pairing button)

Menu button

Internal antenna location

Green LED

Yellow LED

Red LED

PTT-button

HS

REFCOM II PRO®

SPINTSO

EXT

Headset Connector

USB-C Connector

External Audio Connector

Generic functions/features

– Optimized for Referees

– Open speech conference with high performance wind & ambient noise reduction.

– Automatic whistle sound level limitation.

– Compatible with both the Spintso in-ear Swiftfit headsets and Twistlock premium headsets.

– Bluetooth 5.4 standard encryption.

– Customized high performance internal antenna solution to provide optimal range.

– 2-6 users with full duplex audio.

– Built-in Recording of the speech conference.

– Easy initial set-up by assigning each radio an individual id nr. or User Type. (1-6)

– Connects automatically at each match after power-on.

– Configurable Push to Talk button. For example used when speaking to PA system.

– External audio connector for connection of PA system, VAR, or Long range radio.

– Vibrator when used as Flag receiver.

– Extra Bluetooth Low Emission circuit for connection of Spintso Bluetooth accessories.

– License Free 2.4GHz radio band

– Battery level announcement at start-up (High, Medium, Low, Empty)

– Operational Time 12+h

– Operating Temperature -10 to + 45 °C

– Climatic environment IP54. Waterproof 3,5mm audio and USB-C connectors.

– Size: 59 x 25 x 82 mm (Including buttons)

– weight: 70g

– Future proof by SW upgrades through USB

Initial Preparations

1. Charge the radios using normal USB-C or the Refcom II Pro Charging station. Red LED indicates charging, and batteries are full when the green led activates.
2. Test to fit your Swiftfit Pro or Twistlock headset to your ear. If needed, change the in-ear adapters to a different size until the headset fits properly and feels comfortable.
3. Mark-up the radios using the included stickers. and place the sticker on the dedicated area at the top of the unit. Choose the ones that suits your application best. In European Football it could for example be like below:

| RADIO 1 AR2 | RADIO 2 REFEREE | RADIO 3 AR1 |
| RADIO 4 4th | RADIO 5 COACH/VAR | RADIO 6 COACH/VAR |

General Handling

Activation

– Radios are started up by pressing down Volume up and Volume down buttons at the same time for 2 second until the three LEDs activate.
– Radios are turned off by pressing Volume up and Volume down buttons at the same time for 2 seconds until the three LEDs activate.

Pairing

Pairing procedure is performed using the confirm button and the audio Menu.

- Connect the headsets and press the confirm button for 6 seconds on each radio until the green and red LEDs activates. This clears the pairing history and set the radios into radio pairing mode.
- Access the audio menu on each radio one at a time by pressing the MENU-button. Assign each radio an individual number (1-6). Change number by pressing the +/- buttons. Confirm the selected number by pressing down the confirm button.

The number shall match the number on the mounted sticker.

- The pairing can be started when all radios have been set-up with their individual number. Press the confirm button for 2 seconds on the radio assigned to "RADIO 1". All radios will pair automatically in sequence.
  Note! If for example instead pressing confirm button on "Radio 2", only the radios with higher number will be paired.

LED Indications

Radio pairing mode

Radio pairing mode state is indicated by green and red LEDs being continuously active.

Pairing

When pairing is successful, the red LED turns off and the green led indicates connected by blinking.

Connected state

a. One connected radio is indicated by a single blink.
b. Two connected radios are indicated by a double-blink.
c. At low battery, the red LED activates instead of the green.
d. The LED blinking is synchronized and moves from radio 1 to radio 6.

Not connected state

When not connected the green LED blinks 1 time per second at a 50% duty cycle.

Pressing PTT-button

The Yellow LED activates while Push To Talk is active. (Requires that the PTT-button is enabled)

Recording

Active recording is indicated by the red LED blinking.

Bluetooth accessory connected

A paired and connected Spintso accessory is indicated by yellow LED flashing.

Radio Connect

Connecting radios

Radios that have been previously paired, connects automatically after start-up. At connect the voice guide says CONNECT RADIO "X" on each radio.
All connected radios LEDs indicates connected mode in synchronization.

Disconnect in connected state

Disconnect only occur when out of range, or if a radio is turned off. At disconnect, the voice guide says RADIO "X" LOST on the applicable radio, and the green LED indicates accordingly.

Automatic re-connect

If radios disconnect during normal operation because of poor radio connection or by being out of range, the radios automatically re-connect when the radios are back within operational range.

Volume control

The earphone volume can be adjusted in 12 steps. Changing of the volume level is indicated by beep sounds. A high pitch beep sound indicates reaching the highest volume, and a low pitch sound indicates reaching the lowest volume. Normal and recommend- ed Volume setting is between level 7-9. (3-5 steps below maximum) If Volume feels too low from a specific user, make sure the microphone is positioned correctly.

Audio Menu

– The radio features an audio menu for setting different options. For example, selection of preferred headset model or radio number.

– Menu button is pressed to access menu mode.

– Volume buttons are used to change a setting.

– Confirmation button is used to confirm the selected setting.

– Pressing the menu button several times, steps between the menu options.

– Exit menu to normal operation i.e. Volume buttons go back to changing volume, is done after confirming a selection, or automatically after three seconds if not pressing any buttons. A selected parameter is not stored if exit menu occurs automatically after the three second time-out.

– Menu summary:

Pressing menu button from normal operation gives the below menu options.			
Menu button	**Default application**	**Advanced application**	**Pairing**
Press and release 1 time	Recording	Recording	Radio
Press and release 2 times	Headset	Headset	Headset
Press and release 3 times	Default Volume	Default Volume	Application
Press and release 4 times	PTT	Application	
Press and release 5 times	Toggle PTT		
Press and release 6 times	Menu short-cut		
Press and release 7 times	External audio		
Press and release 8 times	Flag indication		
Press and release 9 times	Vibration level		
Press and release 10 times	Pair flag		
Press and release 11 times	Headset detect		
Press and release 12 times	Application		

Recording [OFF, ALL, LOCAL]

– Select RECORDING ALL to record all audio the radio receives.

– Select RECORDING LOCAL to only record the microphone input.

– Select RECORDING OFF to stop the recording.

Headset [SWIFTFIT PRO, SWIFTFIT, TWISTLOCK, CLIP-MIC]

– Select the name of the headset you are connecting to the radio.

– SWIFTFIT PRO is the headset that is included in the standard set.

– Note! Setting the wrong headset can cause degraded audio performance that affects all users.

– Clip-mic users are recommended to use Push to Talk to avoid bringing annoying ambient noises into the speech conference.

Default Volume [LATEST USED, LEVEL 1-12]

– Select LATEST USED if the radio shall remember the last used volume setting at start-up.

– Select LEVEL 1-12 to have the radio always start-up on the same volume level. For example LEVEL 8.

PTT [OFF, ON, MUTE, PA DOWNLINK, PA UPLINK, LOCAL]

– Select OFF to disable the use of the radio PTT-button

– Select ON to enable the use of the radio PTT-button. When enabled the PTT-button needs to be pressed down in order to speak.

– Select MUTE to mute the microphone while pressing down the PTT-button.

– Select PA DOWNLINK to access a PA system connected to a radio with lower radio number. See PA example in applications section.

– Select PA UPLINK to access a PA system connected to a radio with higher radio number. See PA example in applications section.

– Select LOCAL to use the PTT-button for access to the external audio interface of the unit. See Long Range Radio example in applications section.

Toggle-PTT [OFF/ON]

– Note! Not applicable when PTT is set to OFF.

– Select ON to enable toggle-PTT. To activate PTT, the PTT-button is pressed and released twice within 1 second. To release PTT, the PTT-button is pressed and released once.

– Select OFF to disable the use of toggle-PTT.

Menu short-cut [OFF/ON]

– Note! Applicable for PTT setting OFF and ON.

– This feature can be enabled if there is a need to easily and swiftly change between open speech and push to talk speech.

– Select ON to use the menu-button as a shortcut to change between PTT/Normal mode, or between PTT off mode/Normal mode. Press and hold Menu-button for 2 seconds to change mode. If PTT=OFF, pressing mode enables and disables the PTT-Button. If PTT=ON pressing mode disables/enables the PTT-button.

– Select OFF to not use Menu short-cut.

External Audio [OFF, ON, LOCAL-PUBLIC, LOCAL- PRIVATE]

– Select OFF to disable the External audio interface (Ext)

– Select ON to enable the External audio interface (Ext). Audio to/from the external audio interface is enabled for all users.

– Select , LOCAL-PUBLIC to enable the External audio interface (Ext). Only the user with local-public enabled on the radio can speak to the external audio interface on his/her unit, but all users can hear the communication to/from the external interface. Requires PTT=ON

– Select LOCAL- PRIVATE to enable the External audio interface (Ext). Only the user with local-private enabled on his/her unit can speak and listen to the external audio interface. Requires PTT=ON.

Flag indication [VIBRATION, VOICE, VIBRATION AND VOICE, OFF]

– Select how the radio shall react when an assistant referee activates a Spintso electronic referee flag.

Vibration level [HIGH, MEDIUM LOW]

– Sets the intensity of the built-in vibration.

Pair Flag

– Confirm to pair a Spintso Referee flag (Pending feature)

Pair Watch

– Confirm to pair a Spintso S2 watch. (Pending feature)

Headset Detect [ON, OFF]

– Select ON to enable headset detect. Headset detect shall only be set to ON of PTT-button shall be controlled externally from the headset interface.
– Select OFF to disable headset detect.

Application [DEFAULT, ADVANCED]

– Note! All radios in the set shall be configured with the same application. Either all are configured to default, or all are configured to advanced.
– Select Default application to enable all users to speak with each other normally. Either using open speech or push to talk controlled speech. This application can be suitable in for example Football and Rugby and enables use of VAR connection. See application examples section.
– Select advanced application to enable one or two users to privately access for example a public announcement system and/or if two users need to speak with each other in a private speech conference. This application can be suitable in for example Ice Hockey, Handball, and Floorball. See application examples section.

Battery status

– When in normal operation, pressing and releasing the Bluetooth button within 2 seconds activates a battery status message.

Charging

– Charging is indicated by the red LED being active.
– Charging finished in radio off state is indicated by turning the red LED off and turning the Green LED on.
– Charging finished in radio on state is indicated by turning the red LED off. The green LED indicate status normally.
– Charging time is less than 4h.

INTERFACES

Headset

The headset interface features a waterproof 4-pole 3,5mm headset connector. It is compatible with the SPINTSO Swiftfit headset and the Spintso provided Twistlock headset.

Audio connection is according to the OMTP standard, but Ring 1 has an input detect that can activate when grounded. Ring 1 can be used for an external Push to Talk button.

Signal	Pin
Microphone	RING 2
Earphone	TIP
Ground	RING 3
Active low input (Detect)	RING 1

External Audio

– The external audio interface features a waterproof 4-pole 3,5mm headset connector.

– Single ended input and output Line audio with 600 Ohm impedance.

– Open Collector output that can be used for keying an external radio.

Signal	Pin
Input audio	RING 2
Output audio	TIP
Ground	RING 3
Open collector output (PTT sign.)	RING 1

Charging & Data

The charging interface features a Waterproof USB-C connector. This interface also handles upgrades of the radio firmware.

Antenna

The radio features a calibrated internal antenna that provides optimal radio range and signal quality.

charging cable

The Refcom radios can be charged from a normal USB-C cable. The cable provides for charging and data communication. Supported feeding Voltage is 5VDC.

Charging station

– Up to six Refcom radios can be charged simultaneously by placing them in the Refcom II Pro charging station.
– Charging status is indicated on the radios themselves. Red for charging and Green for fully charged.
– Note that the radios will also indicate in Red when full and topping up the battery. This happens if the radios are left in the charger station for a long time.
– It is recommended to disconnect power to the charger station and to remove the radios from the charger station when charging is completed.

General match Set-up and handling

General

- Make sure the radios are fully charged before use.
- Start-up all radios and wait for a short moment until they have automatically connected.
- Assign each referee with the applicable radio and a headset. For example: "Radio 2, Referee 1" is handed to Referee 1.
  - Use SPINTSO arm-bag, waist pouch, or a shirt with dedicated arm-bag pocket when carrying REFCOM II® Pro. The radio shall preferably not be worn behind your back. The backside of the radio shall face the skin, and the connectors shall point downwards or sideways.
  - Mount the headset to the ear, and make sure a secure and comfortable fitting is achieved. The microphone shall be positioned in hight with the mouth and be placed close to the cheek. Use transparent medical tape to secure the microphone position if needed.
- Adjust and attach the cable clip to the sweater collar to avoid cable tension.
- Speak between each other to check that all communication is working properly. Adjust if needed your personal earphone volume to a comfortable level. Normal and recommended Volume setting is between level 7-9. (3-5 steps below maximum) If Volume feels too low from a specific user, make sure the microphone is positioned correctly.
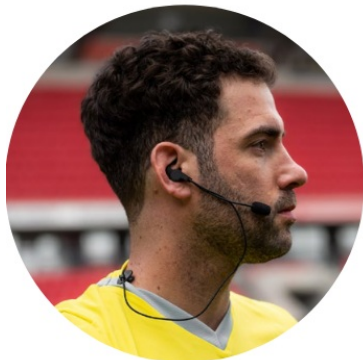
Set-up Headset

The headset is connected to the left connector marked with HS. Press the Menu button two times to hear which headset model that is active. Change the headset model using the menu system if wrong headset model is announced.

Set-up External

If PA or VAR is to be used, it is connected to the right-hand side connector marked with EXT.

Recording

– Select RECORDING ALL in the audio menu to record all audio the radio receives.

– Select RECORDING LOCAL to only record the microphone input.

– Activated recording is indicated by the red LED blinking.

– Select RECORDING OFF to stop the recording. The recording is then stored as a MP3-file on the radio.

– Connect the radio to a PC using a standard USB-C data cable to extract the MP3 recording file.

– Play the file using your PCs audio playing application.

SYSTEM APPLICATION

The radio system can feature two operating modes. Default and Advanced. The chosen application shall be set on all radios in the set.

On default application all users can speak to each other normally, or by pressing the push to talk button.

On advanced application, both Radio 2 and 3 can access a public announcement system connected to Radio 1. Advanced application also features open speech between only Radio 4 and 5. Speech from Radio 4 or 5 to radio 2 and 3 requires pressing down the push to talk button.

Default application examples

Football / **Rugby Union, 3 Referees and coach**

Open communication. The coach needs to press PTT-button to speak.

User		Audio Menu Settings		
Radio	Equipment	PTT	Toggle PTT	External Audio
RADIO 1 AR 2		OFF	OFF	OFF
RADIO 2 REFEREE		OFF	OFF	OFF
RADIO 3 AR 1		OFF	OFF	OFF
RADIO 4 COACH		-ON-	OFF	OFF

Football / Bandy, 4 Referees with VAR

Open communication. 4th can mute the microphone by pressing down the PTT-button.
VAR can be local by using the headset, or remote by connecting the External audio
interface to the remote VAR connection. Local VAR needs to press PTT-button to speak.

User		Audio Menu Settings		
Radio	Equipment	PTT	Toggle PTT	External Audio
RADIO 1 AR 2		OFF	OFF	OFF
RADIO 2 REFEREE		OFF	OFF	OFF
RADIO 3 AR 1		OFF	OFF	OFF
RADIO 4 4th		-MUTE-	OFF	OFF
RADIO 5 VAR		-ON-	OFF	-ON-

Bandy with Public Announcement (PA) and coach

Open communication. PA unit external interface connects to PA-system. The Referee user only, can access the PA system by toggle PTT. 4th and Coach need to press PTT-button to speak.

User		Audio Menu Settings		
Radio	Equipment	PTT	Toggle PTT	External Audio
RADIO 1 PA		-ON-	OFF	-ON-
RADIO 2 REFEREE		-PA DOWN- LINK-	-ON-	OFF
RADIO 3 AR 2		OFF	OFF	OFF
RADIO 4 AR		OFF	OFF	OFF
RADIO 5 4th		-ON-	OFF	OFF
RADIO 6 COACH		-ON-	OFF	OFF

Ice Hockey, 3 Referees with Public Announcement (PA) and Supervisor

Open communication. PA unit external interface connects to PA-system. The Referee user only, can access the PA system by toggle PTT. Supervisor need to press PTT-button to speak.

User		Audio Menu Settings		
Radio	Equipment	PTT	Toggle PTT	External Audio
RADIO 1 PA		-ON-	OFF	-ON-
RADIO 2 REFEREE		-PA DOWN-LINK-	-ON-	OFF
RADIO 3 LINES-MAN 1		OFF	OFF	OFF
RADIO 4 LINES-MAN 2		OFF	OFF	OFF
RADIO 5 SUPER-VISOR		-ON-	OFF	OFF

Handball / **Floorball** / **Futsal**

Open communication. The Time/Score user needs to press PTT-button to speak.

User		Audio Menu Settings		
Radio	Equipment	PTT	Toggle PTT	External Audio
RADIO 1 REFEREE 1		OFF	OFF	OFF
RADIO 2 REFEREE 2		OFF	OFF	OFF
RADIO 3 TIME/ SCORE		-ON-	OFF	OFF

Volleyball, 6 users

Open communication. The Scorers and Judge users need to press PTT-button to speak.

User		Audio Menu Settings		
Radio	Equipment	PTT	Toggle PTT	External Audio
RADIO 1 REFEREE 1		OFF	OFF	OFF
RADIO 2 REFEREE 2		OFF	OFF	OFF
RADIO 3 SCORER 1		-ON-	OFF	OFF
RADIO 4 SCORER 2		-ON-	OFF	OFF
RADIO 5 JUDGE 1		-ON-	OFF	OFF
RADIO 6 JUDGE 2		-ON-	OFF	OFF

Waterpolo, 6 users

Open communication. The Delegate, Judges and VAR users need to press PTT-button to speak. VAR can also be remote by connecting the External audio interface to the remote VAR connection.

User		Audio Menu Settings		
Radio	Equipment	PTT	Toggle PTT	External Audio
RADIO 1 REFEREE 1		OFF	OFF	OFF
RADIO 2 REFEREE 2		OFF	OFF	OFF
RADIO 3 DELEGATE		-ON-	OFF	OFF
RADIO 4 JUDGE 1		-ON-	OFF	OFF
RADIO 5 JUDGE 2		-ON-	OFF	OFF
RADIO 6 VAR	VAR	-ON-	OFF	-ON-

Advanced application examples

Note that PTT and External Audio settings are pre-set and cannot be changed in the Audio Menu.

Ice Hockey, 4 Referees with Public Announcement (PA) and Supervisor

Open communication with private speech conference. PA unit external interface connects to PA-system. Only the referees can access the PA system by toggle PTT. Linesmen can speak open with each other and need to press PTT button to speak with the referees. Supervisor can only listen to the referees and linesmen. The external connector of the supervisor unit can be used to extract all speaking audio.

User		Audio Menu Settings
Radio	Equipment	Speech and Audio accesses
RADIO 1 PA		External audio output and Headset earphone are active. Microphone and External audio input are disabled
RADIO 2 REFEREE 1		Open Microphone. PA access with Toggle PTT.
RADIO 3 REFEREE 2		Open Microphone. PA access with Toggle PTT.
RADIO 4 LINESMAN 1		Open Microphone with Linesman 2. Referee 1 and 2 are accessed with PTT. PTT off mode can be set using Menu Short-cut to access Referees without PTT.
RADIO 5 LINESMAN 2		Open Microphone with Linesman 1. Referee 1 and 2 are accessed with PTT. PTT off mode can be set using Menu Short-cut to access Referees without PTT.
RADIO 6 SUPERVI-SOR		Microphone is disabled. External audio output and Headset earphone are active.

Handball, Floorball with Public Announcement (PA) and Scorer

Open communication. PA unit external interface connects to PA-system. Only the referees can access the PA system by toggle PTT. Time/Scorer user need to press PTT button to speak with the referees

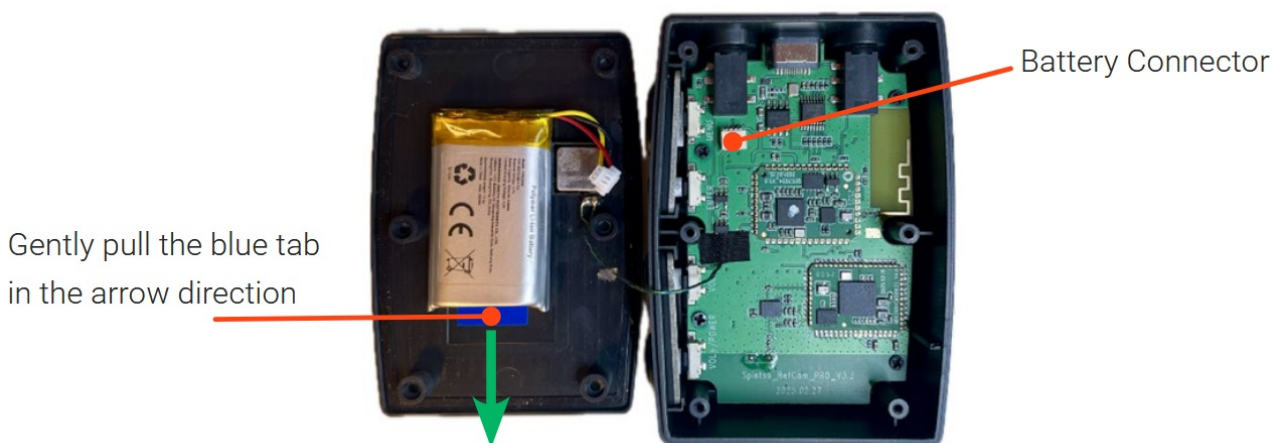| User		Audio Menu Settings
Radio	**Equipment**	**Speech and Audio accesses**
RADIO 1 PA		External audio output and Headset earphone are active. Microphone and External audio input are disabled
RADIO 2 REFEREE 1		Open Microphone. Access PA with Toggle PTT.
RADIO 3 REFEREE 2		Open Microphone. Access PA with Toggle PTT.
RADIO 4 TIME/ SCORE		Access Referee 1 and 2 with PTT. No access to PA. PTT off mode can be set using Menu Short-cut to access Referees without PTT.

Troubleshooting

Problem	Solutions
There is an echo in the system when speaking.	-Check that all headset connectors are inserted properly. -Remove one headset at a time, and check if the echo disappears. Then exchange the faulty headset or radio.
Speaking audio is low from a certain user.	-Check that the microphone is positioned correctly and that the talking side of the microphone is pointing towards the mouth. -Exchange the headset and check if speaking volume from the user increase.
Speaking audio is low from all users.	-Check that dirt on the earpiece is not blocking the audio. -Exchange the headset and check if speaking volume increase.
Whistle sound and ambient noises are annoyingly loud.	-Check that the Volume is not set too high. The Highest Volume levels are only suitable for users with impaired hearing. It is important that all users have the microphone in correct position to pick-up speech audio properly.
Wind and breathing sounds can be heard from a certain user.	-Check that the windshield foam is mounted onto the headset microphone. -test to adjust the microphone position. For example, a slightly lower position.
Speech audio to for example PA-system or Supervisor that are positioned off pitch sounds broken.	-Make sure that the radio position is within range of the Referees on the ice. Note that physical objects covering or blocking the radio can reduce the operational range.
A radio does not connect after system start-up.	-Make a new Pairing.

Battery replacement

There are two options to handle a change of the battery. Contact SPINTSO to have the battery exchanged for you, or exchange the battery yourself by ordering a spare battery from Spintso.

How to replace the battery

– Make sure the radio is turned off, and that nothing is connected to the radio USB-C and Audio ports.

– Disassemble the back lid by removing the six screws. Use a standard small Philips screwdriver for this and turn counterclockwise.

– Detach the lid from the housing, and make sure to not stretch the internal wires.

– Disconnect the battery from the circuit board battery connector and place the parts on a steady surface according to the picture below.

– Carefully and slowly pull the tab of the removable double adhesive tape strip until the battery falls off.

– Remove the tape protection of the new battery and mount it to the Lid in the same position as the old battery.

– Press and hold the battery for a few seconds to make sure it sticks to the lid properly.

– Gently connect the new battery to the battery connector on the circuit board. Note that the connector will only fit in one direction.

– Place the lid on the table with the battery facing upwards. Check that the sealing gasket is in its correct position. Mount the unit to the lid and make sure you have a good fit.

– Turn the radio with lid around and insert the six screws. Make sure to not use too much force when tightening the screws. When a small resistance is felt, and there is no gap between the lid and unit, the tightening is ok.

Battery Connector

Gently pull the blue tab in the arrow direction

Documents / Resources

	[SPINTSO Refcom Ii Pro Units Charging Station](#) [[pdf](#)] Instruction Manual 220933365-0a8a7d, Refcom Ii Pro Units Charging Station, Refcom Ii Pro, Units Charging Station, Charging Station, Station

References

- [User Manual](#)

📁 SPINTSO

🏷 220933365-0a8a7d, Charging Station, Refcom II Pro, Refcom Ii Pro Units Charging Station, SPINTSO, Station, Units Charging Station

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