



REFCOM®

MANUAL

VERS. 2.0/BLUETOOTH 5.1

SPINTSO®



REFCOM[®]

MANUAL

2-SET

3-SET

4-SET

3.4.1



REFCOM® GUIDE, 2-SET

1. PAIRING OF TWO UNITS

If the units are already paired, continue to section 2.

- 1.1 Mark-up the two units with "A1" and "MASTER".
- 1.2 Pairing:
 - 1.2.1 Start-up both units by pressing down the ON-button until they activate.
 - 1.2.2 Erase any current pairing connection on all units by pressing down the + and – buttons simultaneously until the LED emits a red flash.
 - 1.2.3 Restart both units.
 - 1.2.4 Place the units 15 cm apart from each other.
 - 1.2.5 Press down A-button on the A1 unit, and the B-button on the MASTER unit until the LED starts flashing rapidly in red and blue colours.
 - 1.2.6 Make a short key-press on button A on the A1 unit.
 - 1.2.7 Wait a moment until both units stop flashing in a rapid manner.
 - 1.2.8 Once again make a short key-press on button A on the A1 unit. After a moment the LEDs on both units will flash slowly in red and blue colour and communication is established.
 - 1.2.9 Shut down both units by pressing the OFF button.
- 1.3 Pairing is stored after shutting down.

2. START-UP A 2-SET

- 2.1 Note! If the units before start-up have been paired as a 3-set or 4-set, simply start up the system without the 3rd and 4th radio.
- 2.2 Connect headsets and start-up both units by pressing down the ON button until they activate.
- 2.3 Place the units 15 cm apart from each other.
- 2.4 Make a short key-press on button A on the A1 unit.
- 2.5 Communication is established When LEDs on both units flash slowly in red and blue colour.
- 2.6 If speaking between the two units does not work, test the following: 1.

Increase the distance to at least 15 cm between the units and press A button once again. 2. Restart both units and press A button, 3. Pair the units once again according to section 1, 4. Check for faulty headset by connecting another headset to the radio.

3. HANDLING

- 3.1 Make sure the radios are fully charged before use.
- 3.2 Use SPINTSO arm bag or belt clip to attach REFCOM®.
The radio shall not be worn behind your back or by the belt when the distance between referees are great.
REFCOM® shall never be worn upside down in rainy conditions.
- 3.3 Speak between each other through the system for 10-20 seconds before adjusting the earphone volume to a comfortable level.
This is so that the microphone automatic gain will have had time to set.
- 3.4 Microcom/TwistLock headset:
 - 3.4.1 Make sure that the microphone is positioned in height with your mouth and has a distance of around one cm.
The "TALK" side of the microphone shall not be positioned flat against the skin.
 - 3.4.2 If necessary, use transparent medical tape on your cheek to secure the microphone position.
 - 3.4.3 Attach the headset cord to the arm bag and to the sweater using clip.

4. CHARGING

Charge the radio after use. The LED will emit red light while charging. When fully charged, the LED shut down.

REFCOM® GUIDE, 3-SET

1. PAIRING OF THREE UNITS

If the units are already paired, continue to section 2.

- 1.1 Mark-up the three units with "MASTER", "A1" and "A2". The referee shall use the MASTER unit and the assisting referees use A1 and A2. The A1 and MASTER units are paired first and after that the MASTER and A2 units are paired. The MASTER unit will mix the audio between all three units.
- 1.2 Pairing:
- 1.2.1 Start-up all units by pressing down the ON-button until they activate.
- 1.2.2 Erase any current pairing connections on all units by pressing down the + and – buttons simultaneously until the LED emits a red flash.
- 1.2.3 Restart all units.
- 1.2.4 Place the units 15 cm apart from each other.
- 1.2.5 Press down A-button on the A1 unit, and the B-button on the MASTER unit until the LED starts flashing rapidly in red and blue colours.
- 1.2.6 Make a short key-press on button A on the A1 unit.
- 1.2.7 Wait a moment until both units stop flashing in a rapid manner.
- 1.2.8 Press down A-button on the MASTER unit, and the B-button on the A2 unit until the LED starts flashing rapidly in red and blue colours.
- 1.2.9 Make a short key-press on button A on the MASTER unit.
- 1.2.10 Wait a moment until both units stop flashing in a rapid manner.
- 1.2.11 Make a short key-press on button A on the A1 unit. After a moment the LEDs on all units will flash slowly and communication is established. (A1 flash in red colour, MASTER in red/blue colour, and A2 in blue colour.)
- 1.2.12 Shut down all units by pressing the OFF button.
- 1.3 Pairing is stored after shutting down.

2. START-UP A 3-SET

- 2.1 Note! If the units before start-up have been paired as a 4-set, simply start up the system without the 4th radio.
- 2.2 Connect headsets and start-up all units by pressing down the ON button until they activate.

- 2.3 Place the units 15 cm apart from each other.
- 2.4 Make a short key-press on button A on the A1 unit.
- 2.5 Communication is established When LEDs on all units flash slowly. (A1 flash in red colour, MASTER in red/blue colour, and A2 in blue colour.)
- 2.6 If speaking between the units does not work, test the following: 1. Increase the distance to at least 15 cm between the units and Press A button on A1 unit once again. 2. Restart all units and press A button on A1 unit. 3. Pair the units once again according to section 1. 4. Check for faulty headset by connecting another headset to the radio.

3. HANDLING

- 3.1 Make sure the radios are fully charged before use.
- 3.2 Use SPINTSO arm bag or belt clip to attach REFCOM®.
The radio shall not be worn behind your back or by the belt when the distance between referees are great.
REFCOM® shall never be worn upside down in rainy conditions.
- 3.3 Speak between each other through the system for 10-20 seconds before adjusting the earphone volume to a comfortable level. This is so that the microphone automatic gain will have had time to set.
- 3.4 Microcom/TwistLock headset:
- 3.4.1 Make sure that the microphone is positioned in height with your mouth and has a distance of around one cm. The "TALK" side of the microphone shall not be positioned flat against the skin.
- 3.4.2 If necessary, use transparent medical tape on your cheek to secure the microphone position.
- 3.4.3 Attach the headset cord to the arm bag and to the sweater using clip.

4. CHARGING

Charge the radio after use. The LED will emit red light while charging. When fully charged, the LED shut down.

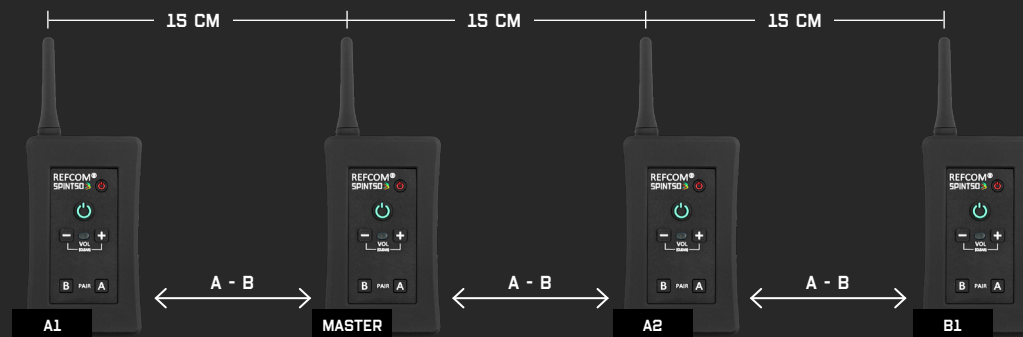
REFCOM® GUIDE, 4-SET

1. PAIRING OF FOUR UNITS

If the units are already paired, continue to section 2.

- 1.1 Mark-up the four units with "MASTER", "A1", "A2" and "B1". The referee shall use the MASTER unit and the assisting referees use A1 and A2. The 4th referee uses the B1. The A1 and MASTER units are paired first, then the MASTER and A2 units, and finally the A2 and B1 units are paired. The A2 unit shall be on the same side of the field as the B1 unit.
- 1.2 Pairing:
 - 1.2.1 Start-up all units by pressing down the ON-button until they activate.
 - 1.2.2 Erase any current pairing connections on all units by pressing down the + and - buttons simultaneously until the LED emits a red flash.
 - 1.2.3 Restart all units.
 - 1.2.4 Place the units 15 cm apart from each other.
 - 1.2.5 Press down A-button on the A1 unit, and the B-button on the MASTER unit until the LED starts flashing rapidly in red and blue colours.
 - 1.2.6 Make a short key-press on button A on the A1 unit.

- 1.2.7 Wait a moment until both units stop flashing in a rapid manner.
- 1.2.8 Press down A-button on the MASTER unit, and the B-button on the A2 unit until the LED starts flashing rapidly in red and blue colours.
- 1.2.9 Make a short key-press on button A on the MASTER unit.
- 1.2.10 Wait a moment until both units stop flashing in a rapid manner.
- 1.2.11 Press down A-button on the A2 unit, and the B-button on the B1 unit until the LED starts flashing rapidly in red and blue colours.
- 1.2.12 Make a short key-press on button A on the A2 unit.
- 1.2.13 Wait a moment until both units stop flashing in a rapid manner.
- 1.2.14 Make a short key-press on button A on the A1 unit. After a moment the LEDs on all units will flash slowly and communication is established. (A1 flash in red colour, MASTER and A2 in red/blue colour, and B1 in blue colour.)
- 1.2.15 Shut down all units by pressing the OFF button.
- 1.3 Pairing is stored after shutting down.

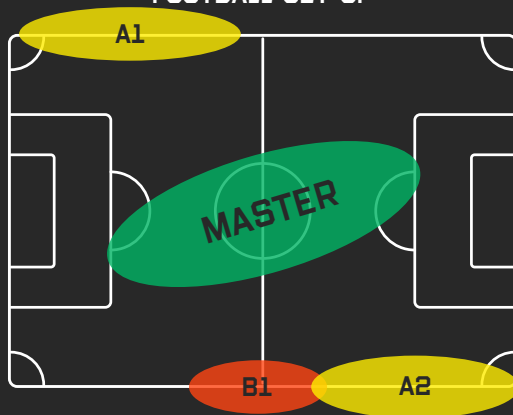


REFCOM® GUIDE, 4-SET

2. START-UP A 4-SET

- 2.1 Connect headsets and start-up all units by pressing down the ON button until they activate.
- 2.2 Place the units 15 cm apart from each other.
- 2.3 Make a short key-press on button A on the A1 unit.
- 2.4 Communication is established When LEDs on all units flash slowly. (A1 flash in red colour, MASTER and A2 in red/blue colour, and B1 in blue colour.)
- 2.5 If speaking between the units does not work, test the following: 1. Increase the distance to at least 15 cm between the units and Press A button on A1 unit once again. 2. Restart all units and press A button on A1 unit, 3. Pair the units once again according to section 1, 4. Check for faulty headset by connecting another headset to the radio.

FOOTBALL SET-UP



3. HANDLING

- 3.1 Make sure the radios are fully charged before use.
- 3.2 Use SPINTSO arm bag or belt clip to attach REFCOM®. The radio shall not be worn behind your back or by the belt when the distance between referees are great. REFCOM® shall never be worn upside down in rainy conditions.
- 3.3 Speak between each other through the system for 10-20 seconds before adjusting the earphone volume to a comfortable level. This is so that the microphone automatic gain will have had time to set.
- 3.4 Microcom/TwistLock headset:
 - 3.4.1 Make sure that the microphone is positioned in height with your mouth and has a distance of around one cm. The "TALK" side of the microphone shall not be positioned flat against the skin.
 - 3.4.2 If necessary, use transparent medical tape on your cheek to secure the microphone position.
 - 3.4.3 Attach the headset cord to the arm bag and to the sweater using clip.

4. CHARGING

Charge the radio after use. The LED will emit red light while charging. When fully charged, the LED shut down.



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