



5000 8-User AM 4-User EU Full Duplex Radio



Yapalong 5000 8-User AM 4-User EU Full Duplex Radio User Manual

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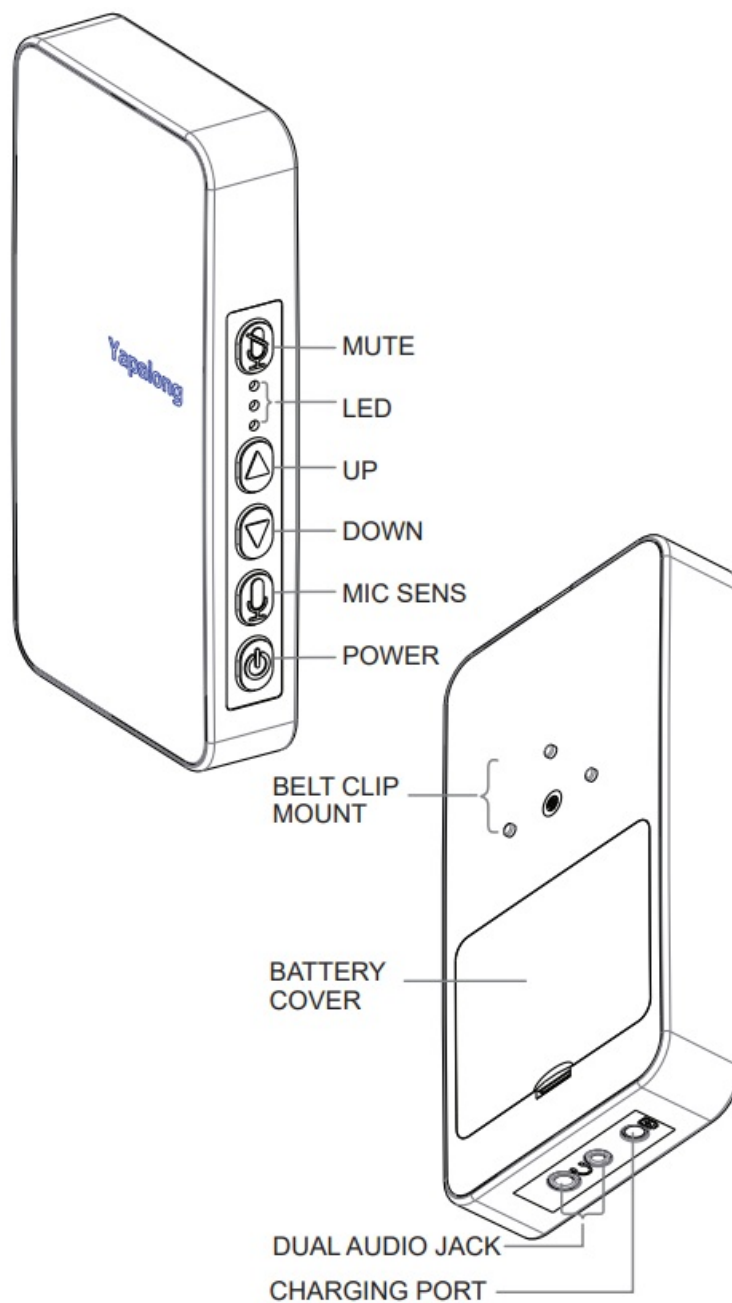
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Yapalong 5000 8-User AM 4-User EU Full Duplex Radio

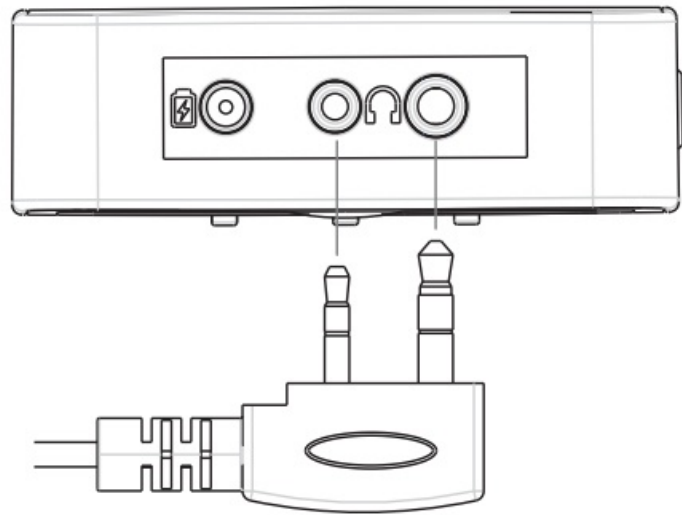


OVERVIEW



GET STARTED

1. Turn the Yapalong5000 unit on by holding down POWER button for 2 seconds until RED LED turns on.
2. If the AMBER LED blinks every 2 or 5 seconds or there is no LED light at all, the battery needs to be charged.
3. If RED LED remains on with high intensity, it means it cannot detect another group unit due to various reasons:
 - no group unit powered on;
 - group unit out of range;
 - unit in different group(Refer to BINDING PROCEDURE to do binding).



4. If RED LED remains on with normal intensity, it means it has detected group unit(s). Plug in the headset as shown. The unit is now ready to be used with other powered-on group units.
5. To adjust the sound volume, click UP or DOWN button, until desired volume is reached.
6. To adjust the microphone sensitivity, click UP or DOWN button while holding down MIC SENSITIVITY button, until desired sensitivity is reached. Now Yapalongs let every member in the group talk freely and listen at the same time.

POWER UP A GROUP

Power on one of the radios at the location where the radios to be used. Wait until the red light of the radio becomes solid, then power on the rest radios.

Power on all the radios at the place where they will be used. It is not recommended to power on all the radios at one location (e.g., locker room), then use them at another (e.g., football field). This is needed because the radios auto scan the surroundings for the cleanest channel upon being powered on.

BINDING PROCEDURE

Note: Binding needs to be done under minimum radio interference environment, which means no cellphone, no computer, no Bluetooth, and no electrical control panel nearby.

After binding, there is NO need to do binding again next time for the same group, until new radio(s) being added to the group.

• A. BINDING PROCEDURE FOR REGULAR UNITS

1. Power down all units with good batteries installed.
2. Power up 1st unit until RED LED is solid on. Hold down UP and DOWN buttons simultaneously for 3 seconds until GREEN and AMBER LEDs begin to flash alternately. Release buttons for 5 or more seconds, both LEDs stop blinking and all 3 LEDs remain solid on.
3. Power up 2nd unit until RED LED is solid on. Hold down UP and DOWN buttons simultaneously for 3 seconds until GREEN and AMBER LEDs begin to flash alternately. Release buttons for 5 or more seconds, both LEDs stop blinking and only RED and GREEN remain solid on. If AMBER is also on, restart Binding from Step1.
4. Repeat Step3 for the rest units until the binding for all the units is done. If in doubt, repeat the entire procedure.

Power off all the units to exit binding mode. The radios in binding mode cannot communicate.

• B. ORDER FOR BINDING LISTENER UNITS

LISTENER units can be added to existing Yapalong group as listen-only units. Regardless of the previous grouping state, the entire group has to be bound again. The binding procedure is the same as the one for REGULAR units.

In addition we need to follow the order below to bind:

1. Set 1st REGULAR into Binding mode.
2. Set 2nd REGULAR into Binding mode.
3. Set all LISTENERS into Binding mode one by one.
4. Set the rest REGULARs into Binding mode one by one.

2 MODES FOR EU MODEL

EU Model supports 2 modes: License-Free mode and Licensed mode.

License-Free Mode

Each time the EU radio is turned on, it is automatically in License-Free mode. When in License-Free mode, the GREEN LED flashes every 2 seconds while the RED LED is solid on.

Licensed Mode

Here is the procedure to enter Licensed mode:

1. Turn off all the radios in the group.
2. Turn on any one radio. After the GREEN LED starts to flash, press and hold the POWER button and the MIC button together for 2 seconds. The GREEN LED will be off.
3. Do the same for the rest of the radios ONE BY ONE, not at the same time. Now all the radios in the group are in Licensed Mode.

Frequency Allocation of EU Model

The central frequency of License-Free Mode is
869.525 MHz







The central frequencies of Licensed Mode are (in MHz)

- 865.651
- 866.401
- 867.151
- 867.901
- 868.651
- 869.401
- 870.151

A temporary license may be required depending on the region of Europe where the radios are used. When in Licensed mode, the radio itself chooses a clear frequency by its Auto-Scan function.
We apologize for the inconvenience. We try our best to comply with the EU regulations.

KEYPAD INSTRUCTIONS

Note: Any adjustment to the default settings is volatile. Once you restart your radio, the radio returns to the default setting.

POWER ON 	Hold down POWER button approx. 2 seconds until RED LED turns on. Then release button.	RED LED is on with normal intensity if the unit detects other unit(s) of the same group; otherwise RED LED is on with high intensity.
POWER OFF	Hold down POWER button approx. 2 seconds until RED	All LEDs are off in power down mode except battery charging indicator.
MUTE 	Click MUTE button and GREEN LED flashes 3 times.	Continuous slow blinking of RED LED indicates the microphone is being muted. When the microphone is muted, other Yapalong units cannot hear you but you can hear the others.
UNMUTE	Click MUTE button and GREEN LED flashes 3 times.	RED LED slow blinking stops. Back to normal operation.
VOLUME UP 	Click UP button to move up one level at a time until desired level.	GREEN LED flashes once unless maximum level is reached. There are 6 volume levels. The default level is level 4.
VOLUME DOWN 	Click DOWN button to move down one level at a time until desired level.	GREEN LED flashes once unless minimum level is reached.
MIC SENS UP 	Hold down MIC SENS button then click UP button to move up one level at a time until desired level	GREEN LED flashes twice unless maximum level is reached. Increase microphone sensitivity if you want to speak softly in a quiet environment. There are 5 sensitivity levels. The default level is level 4.
MIC SENS DOWN 	Hold down MIC SENS button then click DOWN button to move down one level at a time until desired level.	GREEN LED flashes twice unless minimum level is reached. Decrease microphone sensitivity when background noise is loud. Speak closer to the microphone to compensate.

Note: MIC SENS (microphone sensitivity) sets the threshold of sound volume that the microphone can pick up. The higher it is, the more sound is picked up. MIC SENS does not affect the talker but affects the other listeners of the group. It is good practice to lower the setting in a noisy environment so that other users will not hear so much environmental noise.







FORCE SYNC



Press POWER button 1-3 seconds to resume the

RED LED of high intensity is turned into normal intensity once the radio is in sync.

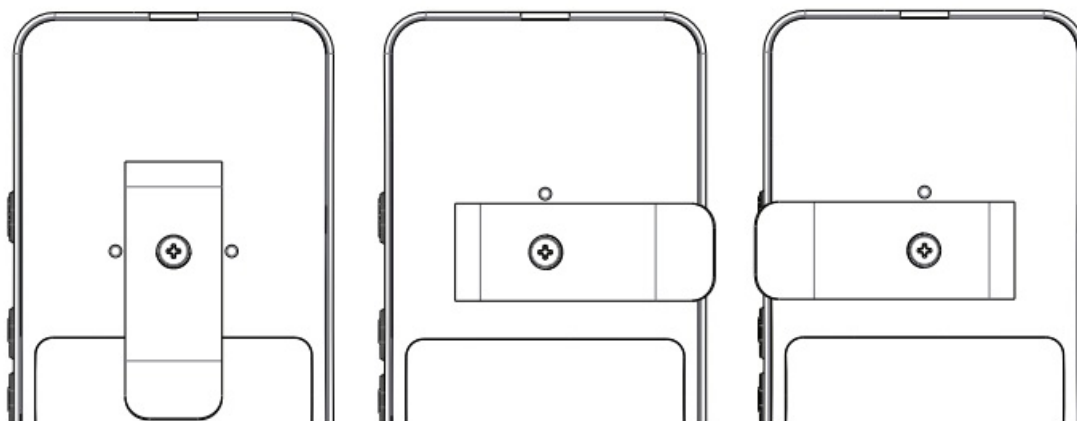
Note: When the radio is moved out of then back into range, its communication with the group will resume automatically, as indicated by RED LED of normal intensity. If does not resume immediately, as indicated by RED LED of high intensity, please perform FORCE SYNC. If still does not resume, please restart the radio.

RED LED Solid	  	Normal intensity High intensity	Has detected other unit(s) of the same group. Cannot detect any other unit of the same group.
AMBER LED Blinking	  	Every 5 seconds Every 2 seconds	Initial warning of low battery Final warning of low battery

BELT CLIP MOUNT

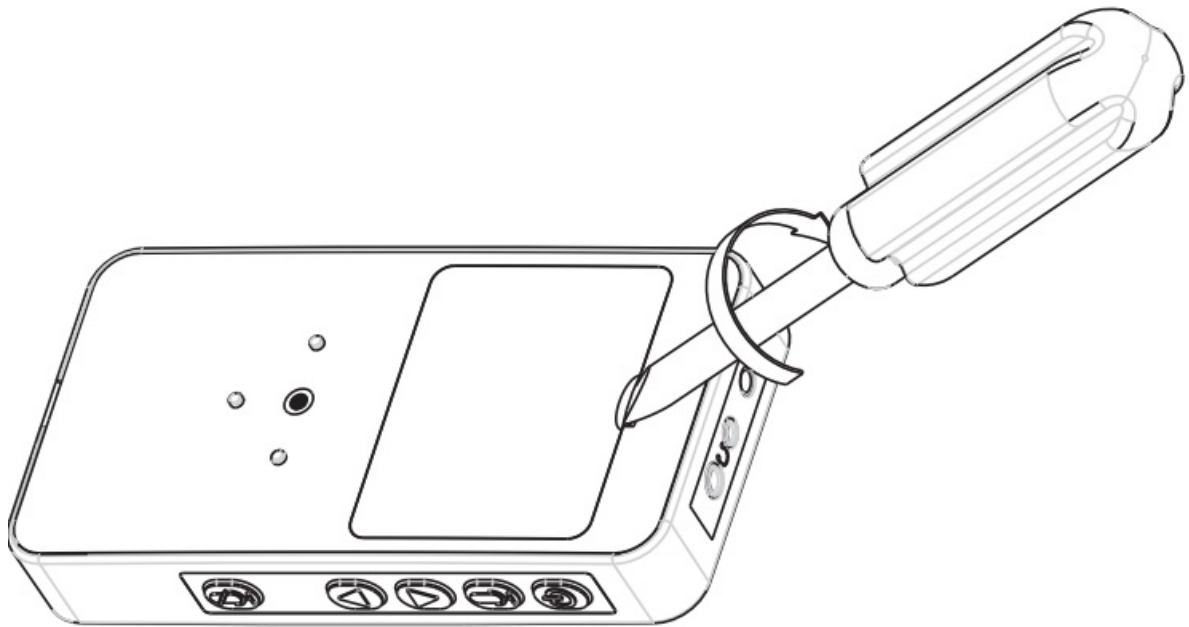
The belt clip can be mounted at 3 different positions as shown. The screw used is M3 machine screw, 4mm long, Philips head.

When worn, always keep the top of the radio upwards and the front outwards for the best range.

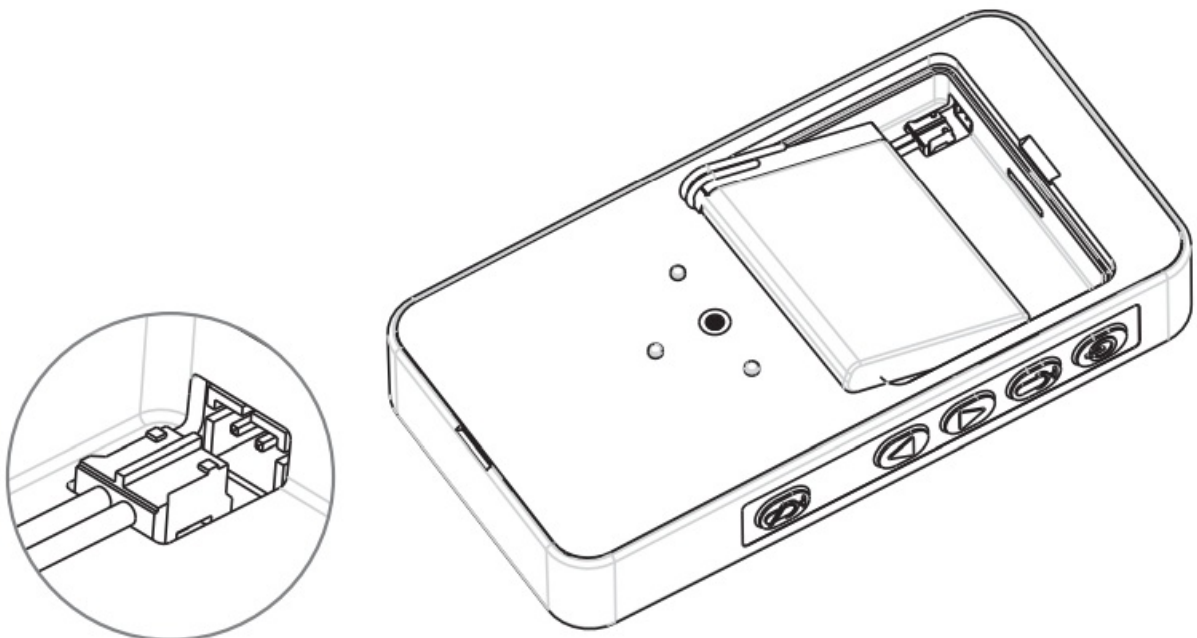


BATTERY REPLACEMENT

1. Get a slotted screwdriver. Insert the tip of the screwdriver into the slot of the battery cover. With a little twist, pry the battery cover open.



2. Pull gently on the battery connector and take the old battery out.
3. Get the new battery and insert the battery connector as the orientation indicated.



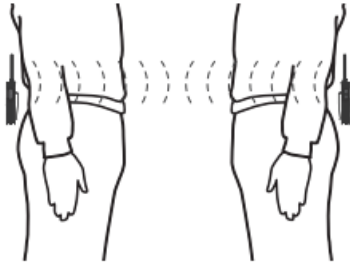
4. Put the battery cover back. Make sure the bump on the battery cover is close to the bottom of the radio.



HOW TO MAXIMIZE RANGE

When worn, always keep the top of the radio upwards and the front outwards for the best range.

To obtain maximum range is to eliminate blocking obstacles at line of sight. The range is greatly reduced when the obstacle is very close to the antenna. We need to avoid the following scenarios:



CLOSE BODY BLOCKING

1. placing bodies in between antennas causes communication signs being blocked



ANTENNA TOUCHING BODY

2. Human body is mainly water so it absorbs RF wave. Water absorbs RF (radio frequency) wave.

WEARING POSITION ANALYSES:



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No close body blocking
No RF absorption



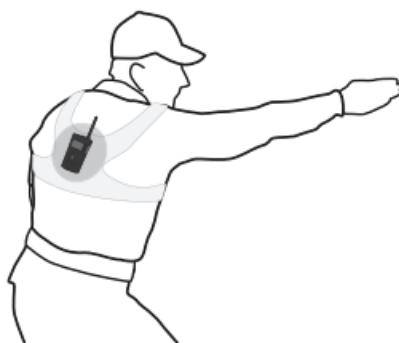
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No close body blocking
Partial RF absorption



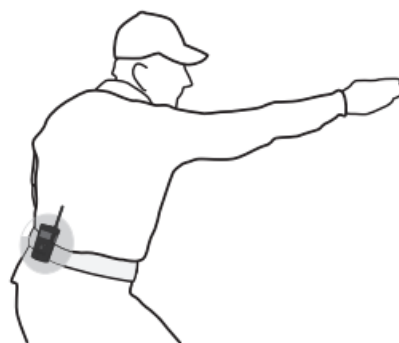
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Partial close body blocking
due to low position
Partial RF absorption



☆☆☆

Total close body blocking
Partial RF absorption



☆☆☆

Total close body blocking
Partial RF absorption

SAFETY WARNING

Don't hold Yapalong too close to your head when in use.

INDUSTRY CANADA COMPLIANCE STATEMENT

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic

Development Canada's license-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device

FCC INFORMATION TO USERS

This equipment has been tested and found to comply with the limits for Class B digital devices, 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 instruction manual, 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.

WARNING: Changes or modifications not expressly approved by Nautic Devices Inc. could void the user's authority to operate the equipment.

FOR CLASS B – UNINTENTIONAL RADIATORS

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 operations.

SPECIFICATIONS

FCC ID: UJW-5000

IC: 6695A-5000

Model: Yapalong5000

- **Radio Frequency:**
 - Unlicensed ISM band
 - 900 MHz (AM)
 - 800 MHz (EU)
- **Group Size:**
 - 8 talkers (AM)
 - 4 talkers (EU)
 - Unlimited listeners
- **Wireless Network:**
 - Auto channel selection no-master
 - TDMA/peer-to-peer
 - Encrypted communication

- **Digital Modulation:** FSK/GFSK
- **No. of channels:** 3
- **Range:** Up to 1,100 meters line-of-sight
- **Overall Latency:** 25 ms
- **Size:** 129mm x 66mm x 21mm
- **Weight:** 138 grams
- **Power Rating:** 500 mW
- **Power Source:** Lithium polymer, 3.7 V, 1700 mAh
- **Power Duration:** Over 8 hours after being fully charged
- **Operating Temp Range:** -20 °C ~ 50 °C
- **Sensitivity Adjustment:** 5-level
- **Safety:** Lead-free, RoHS compliance
- **IP Rating:** IP67


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Please activate your warranty
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Documents / Resources

	<p>Yapalong 5000 8-User AM 4-User EU Full Duplex Radio [pdf] User Manual Yapalong5000, 5000 8-User AM 4-User EU Full Duplex Radio, 5000, 8-User AM 4-User EU Full Duplex Radio, 4-User EU Full Duplex Radio, Full Duplex Radio, Duplex Radio, Radio</p>
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References

- [User Manual](#)

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