

Yapalong 3000 User's Guide

for
3020, 3030, 3040 Systems

Configurations of Yapalong Systems:

Yapalong 3020 – 2-user system

Yapalong 3030 – 3-user system

Yapalong 3040 – 4-user system

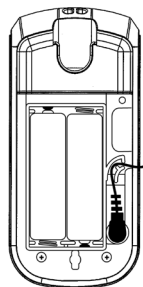
Each Yapalong System package contains:

Yapalong 3000 units (from 2 to 4)
Earbud + microphone (from 2 to 4)
Neck straps (from 2 to 4)
Storage case
User's guide



Get Started Now:

1. Remove battery door at the back of unit by turning small latch clockwise at the bottom.
2. Install batteries (2 x AA standard alkaline or rechargeable Nickel Metal Hydride (NiMH), not included). Slide new batteries into battery compartment. Make sure positive (+) and negative (-) ends of batteries match configuration moulded into battery holder.
3. Push microphone plug into connector beside battery compartment. Ensure watertight seal ring is in place. Place the microphone cable in the cable channel.
4. Replace and close battery door. The microphone cable should exit from the small opening on the side. Close latch by turning it anti-clockwise to ensure seal is compressed.
5. To turn Yapalong unit ON, hold 'POWER button' down (approx. 2 seconds) until green indicator light flashes 3 times. The unit is now ready to be used with other powered-on units of the same set.
6. To adjust the sound volume, press UP or DOWN button, repeatedly if necessary, until desired volume is reached.
7. To turn Yapalong unit OFF, hold 'POWER button' down (approx. 2 seconds) until red indicator light flashes 3 times; and the unit powers down.
8. Batteries can be left safely in the unit. However, if depleted, remove or replace.



System Description

Yapalong provides immediate and clear communication between 2 (3020), 3 (3030) and 4 (3040) users. Unlike traditional FRS (walkie-talkie) radios, your exchange remains within the group and is private. Operation is simple and does not require PTT (push to talk). Using the inconspicuous earbud and microphone, operation is completely hands-free. It is always in a conference mode, meaning anyone can talk at any time, and be heard by everyone in the group. The Yapalong unit is small, battery-operated, and water-resistant – ideal for ski schools on the slopes, mariners, hunters, tourists groups, construction teams, and any small-group coaching. You can talk as long as you like with you team in the city, in the remote country, or in the middle of the ocean. There is no license fee to pay and no air time charges.

Replacing Batteries

Each Yapalong unit uses 2 x AA standard alkaline or rechargeable Nickel Metal Hydride (NiMH) batteries, not included. **CAUTION:** Do not mix battery types, as they may over-heat or leak, causing injury. Replace both batteries at the same time.

Instructions for Use

Yapalong 3000 is designed for simplicity. Only 3 buttons and 2 LED indicators are placed on the front of the device.

Turn on	Hold down 'Power Button' approx. 2 seconds until red indicator turns on momentarily and flashes 3 times. Release.	Red indicator light will remain on at a lower intensity if your unit hears other unit(s) in the same group; otherwise the red indicator will be in full brightness.
Turn off	Hold down 'Power button' approx. 2 seconds until red indicator light flashes 3 times. Release.	Both indicators are off in power down mode.
Volume up	Press 'UP button' to move up one level at a time until desired volume.	Green indicator flashes once unless maximum level had been reached. There are 6 volume levels.
Volume down	Press 'DOWN button' to move down one level at a time until desired volume.	Green indicator flashes once unless minimum level had been reached.
Microphone mute	Hold 'DOWN button' (approx. 2 seconds) until green indicator light flashes a few times. Then release.	When microphone is muted, other Yapalong units cannot hear you. However you can still hear the others. The green indicator blinks on and off slowly in the muted state.
Reactivate microphone	Hold 'Down button' (approx. 2 seconds) until green indicator light flashes a few times. Then release.	Back to normal operation. Green indicator slow blinking stops.
Increase microphone sensitivity	Hold down 'UP button' and immediately press 'POWER button' momentarily. Release both at the same time.	Green indicator flashes twice unless maximum level has been reached. Increase microphone sensitivity if you want to speak softly in a quiet environment. There are 5 microphone sensitivity levels.
Decrease microphone sensitivity	Hold down 'DOWN button' and immediately press 'POWER button' momentarily. Release both at the same time.	Green indicator flashes twice unless minimum level has been reached. Decrease microphone sensitivity when background noise is loud, for example, in windy conditions. Speak closer to the microphone to compensate.

Additional Features:

Red indicator light flashes 4 times, every 10 seconds.	Battery low warning.
Red indicator remains on with full brightness.	Out of range indicator. Your unit cannot receive RF signal from any unit in the group. Power on other units, or walk closer to each other.
Forced Sync.	Press power button momentarily forces the unit to re-establish synchronization with the rest of the group.

Recommendations and Tips

- Power up all units in the group in relative close proximity (15 to 25 feet) and check that communication is established before moving further apart.
- If other units cannot hear you, but you can hear other(s) clearly, your unit is on mute. Press 'DOWN button' (approx. 2 seconds) until green indicator light flashes 3 times.
- For mariners, have spare earbud and microphone assemblies, and batteries. With proper installation, the Yapalong 3000 is waterproof, but the microphone and earbud are not. Be prepared to replace microphone and earbud if needed.
- Yapalong 3000 will run for a short time after battery low warning. For non-critical applications, unit may be used until operation stops automatically, regardless of the battery-low warning.
- To maximize radio range, adjust and experiment with different carrying positions; i.e. on arm, front or back of body by neck strap, or waist. As a general rule, the less blocking of radio frequency wave the better for the communication. The human body blocks radio signal. For best result, have the unit facing the direction of transmission.
- Each group and unit has its factory assigned ID number. This ensures privacy and prevents interference from other systems.
- If communication is impeded by wind noise or loud background noises picked up by microphone try to reduce microphone sensitivity and speak closer to microphone.
- A rubber gasket and a seal ring keep rain water and splash out of the battery compartment and audio jack connector. In the event of a total submerge, water might get into the battery compartment and/or inside the audio jack. However, water is prevented from getting further into the main unit, since it is watertight. Rinse with clean water and dry out the unit before using it the next time.

Yapalong 3000-L

Yapalong 3000 is not limited to a group size of 4. Listen-only Yapalong 3000-L can be added to practically any number in the group. This application is especially useful for tour groups, schools and group coaching. Features described in this users guide are applicable to 3000-L except the microphone mute and microphone sensitivity.

Upgrading Yapalong 3020 and Yapalong 3030

3020 and 3030 systems can be upgraded with to a maximum of 4 units in the group. A simple binding procedure can be done by you. Please visit our web site www.nauticdevices.com for detailed information, or contact us by email at support@nauticdevices.com.

Specifications:

Power source: 2 x AA standard alkaline or rechargeable NiMH (Nickel Metal Hydride)
Power efficiency: high quality batteries will last from 15 to 20 hours
Power off leakage: less than 5 microamp
Range: up to 800 ft line-of-sight
Radio technology: 2.4GHz 15 channels, unlicensed ISM band, automatic channel selection
Wireless network: no-master TDMA (patent pending)
Operating temperature range: -20 0C to 50 0C
Operating humidity: 30% to 95% non-condensing
Rainproof and waterproof main unit: tested submerged 3 feet for 1 minute
Stainless steel battery contacts
Lead free, RoHS compliance
Dimensions: 108mm x 51mm x 31mm

Warranty

Nautic Devices Inc. warrants Yapalong 3000 against defects in materials and workmanship for a period of twenty four (24) months, accessories for 6 months, from the date of original purchase. For warranty service, please contact us for a RMA number and return the product together with the original receipt postage prepaid to Nautic Devices Inc. Warranty information, address and contact are on our website www.nauticdevices.com.

Industry Canada Compliance Statement

This Class B digital apparatus complies with ICES-003.
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

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.

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