

NLM-14 FRS RADIO INSTRUCTION MANUAL

Thank you for purchasing our NLM-14: "The Family Radio Service (FRS)" 2-way radio. FRS is a brand-new long distance, two-way communication service system. NLM-14 is characterized by its long range, compact size, light in weight and easy to carry.

Under the frequency range provided, you can freely communicate with your family members and friends during various kinds of outdoor activities

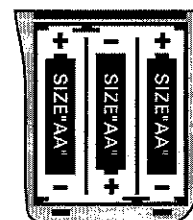
Features of NLM-14

- ◆ UHF FM Frequencies
- ◆ No License Required
- ◆ No Air Time Charges
- ◆ 2 Mile Range
- ◆ 14 channels
- ◆ LED display
- ◆ Talk Confirmation Tone
- ◆ Auto Battery Saver Circuitry
- ◆ Auto Squelch
- ◆ Belt Clip

Batteries

(I) Installation

1. Turn the power off
2. Use 3 "AA" Alkaline battery for operation. Please remove the belt hook before inserting batteries. Open the battery compartment by pulling down and insert batteries. Make sure that both sides of the batteries are in the right position (the spring end is Negative end of battery)
3. Put battery cover back.



Notice:

1. Use new batteries of the required size and type.
2. Do not use & mix the old and new batteries, different types of batteries, alkaline or rechargeable batteries with different capacity together.

Operation

1. Turn On

Turn the switch, Volume and Power On/Off, clockwise and adjust the volume level to a suitable level after inserting batteries, one can hear a "DO" sound, which means the power supply is connected and the unit is ready to use and functions properly.

2. Channel Setting

Both the calling and receiving units must be set on the same channel. Select desired channel by pressing and releasing "▲" (UP) and "▼" (DOWN) keys. Current channel will be shown on the LED display.

3. MON Button

To hear everything happening on a channel, including weak transmission and radios set to a different quiet code, hold down "MON" (monitor). The unit will be in a receiving mode. Release MON to turn auto-squelch back on.

4. Call

Simply press "Call" button to call other parties. Receiving parties will then hear a calling tone. After pressing "Call", the calling unit will have a "DO" sound, which means it is now calling other parties. Release "Call", one can hear "DO DO" sound after 3 seconds, it indicates that the calling comes to the end. If one wants to call again, please repeat the above procedures.

5. Communication

If one presses "PTT", one can talk to other parties. If receiving parties want to talk, he/she has to wait until other parties have finished talking. He/she can talk by pressing "PTT" by then.

6. Mic and Earphone Jack

One can use Mic and Earphone Jack during communication, if necessary. Just insert the socket to the proper position. Please note that "SPK" outlets and "MIC" are ϕ 2.5mm.

7. Low Battery Indicator

If "L" is shown on the LED display, it indicates that the battery power is low. One has to replace batteries. Continuous operation will lead to unsatisfactory and poor performance.

8. Turn Off

Volume level is decreased when turning the "VOLUME" knob anti-clockwise. Continue to turn the volume knob until the power is cut.

Specifications

14 Channels

Operation frequency : UHF -- from 462MHz

Talk Range : 2 miles

Power Output : 500mW

Power Source : 3 "AA" Alkaline/ Rechargeable Batteries

Battery Life : Alkaline battery -- 30 hours (2300mA) ; Rechargeable battery -- 10 hours (600mA)

Channel Frequency

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	462.5625	5	462.6625	9	467.5875	13 (C)	467.6875
2	462.5875	6	462.6875	10(O)	467.6125	14 (d)	467.7125
3	462.6125	7	462.7125	11(A)	467.6375		
4	462.6375	8	467.5625	12(b)	467.6625		

Important Notice

- All functions of NLM-14 have been pre-set and comply with FCC before it sells in the market. So, one should not open the case to replace circuits and parts, except changing batteries.
- The transmitted signals of this product are within the required frequency range. Any adjustment on the frequency range may be illegal.
- Almost every electronic device is susceptible to electromagnetic interference (EMI) if inadequately shielded, or configured for electromagnetic compatibility. Under working condition, NLM-14 may interfere with TV or radio signals. In order to check this, one can turn on the NLM-14 or press PTT button when a TV set or radio is on. Quality of voice or image from TV sets or radios might deteriorate, but voice and image will recover again after NLM-14 is turned off.

To avoid interference, one can take the following measures:

- (a) Avoid using NLM-14 from near TV set or radio signals receiving equipment.
- (b) Ask our engineering department for technical support.

Care and Maintenance

1. Handle NLM-14 gently and carefully.
2. Avoid using it in hostile environment, such as dusty, humid and high temperature environment.
3. To clean the radio, wipe with a soft cloth dampened with water. Do not use corrosive chemical solvents to clean the dust on the surface. Battery contacts can be wiped with a dry, lint-free cloth.

Warning

Adjustment to this unit or replacement of any transmitter component (crystal, semiconductor, etc.) to this unit that could result in a violation of the rules.

Note

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, if not installed and used in accordance with the instructions, 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 needed.
- Consult the dealer or an experienced radio/TV technician for help.

Safety Information

Your wireless hand-held portable transceiver contains a low power transmitter. When the Push-to-Talk (PTT) button is pushed it sends out radio frequency (RF) signals. The device is authorized to operate at a duty factor not to exceed 50%. In August 1996, the Federal Communications Commission (FCC) adopted RF exposure guidelines with safety levels for hand-held wireless devices.

Important

To maintain compliance with FCC's RF exposure guidelines hold the transmitter and antenna at least 1 inch (2.5 centimeters) from your face and speak in a normal voice, with the antenna pointed up and away from the face. If you wear the handset on your body while using the headset accessory, use only the supplied belt clip for this product and when transmitting, take it out of the belt to ensure that the antenna is at least 1 inch (2.5 centimeters) from your body.

Use only the supplied antenna. Unauthorized antennas, modifications, or attachments could damage the transmitter and may violate FCC regulations.