

Golden Source Electronics Ltd.

Operation Manual

***Family Radio Service
(FRS)***

***Model: 5970-900
5970-901
5970-902***

Written By:

Warning

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 connected.
- Consult the dealer or an experienced radio/TV technician for help.

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 operation.

Modifications not authorized by the manufacturer may void the user's authority to operate this device.

1.0 Feature List

- 1.1 UHF FM transmission
- 1.2 No license required
- 1.3 500mW output power
- 1.4 Up to 3Km transmission range
- 1.5 Water proof up to 1 meter
- 1.6 14 Channels
- 1.7 Electronics volume – 8 levels
- 1.8 PTT/Call function
- 1.9 Automatic squelch function
- 1.10 Low battery alert function
- 1.11 Key tone function
- 1.12 LCD Backlight

2.0 Controls and display

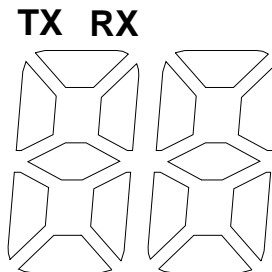
2.1 System controls

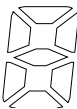


Button symbol	Description
1. TALK	<ul style="list-style-type: none">Press and hold for TALK.Press twice shortly for call tone transmission.
2. ⬆(UP) (VOL) ⬇(DOWN)	Volume adjusting
3. ⬆ (UP) (CHAN) ⬇ (DOWN)	Channel select
4. ⏻ (POWER)	<ul style="list-style-type: none">Press and hold for Power On and Off

2.2 LED indicator

- Blue LED for indication of Tx and Rx status, battery low alert.



2.3 LCD panel



- 
Numerical digits, display channel and volume level
- 
TX icon, light on in Transmission mode
- 
Rx icon, light on in Receiving mode


3.0 Operation

3.1 Turning the Unit ON and OFF


Press and hold  (POWER button) for 1 second to turn the FRS unit ON. Press and hold  (POWER button) for 1 second again to turn the FRS unit OFF.

3.2 Adjusting the Speaker Volume

Adjusting the Speaker Volume Up

Press  (UP_VOL) button to increase the speaker volume.

Adjusting Speaker Volume Down

Press  (DOWN_VOL) button to decrease the speaker volume.

3.3 Selecting a Channel

- **3.3.1** Press **⬆** (**UP_CHAN**) button, The channel number (1-14) will be changed ascending in one step.
- **3.3.2** Press **⬇** (**DOWN_CHAN**) button , The channel number (1-14) will be changed descending in one step.

3.4 Talking and Listening

- In order to speak to someone, each of you must be set to the same channel.
- Press and hold **TALK** (push to talk button) to transmit. Transmissions commence and the Blue LED indicator lights.
- Speak into the microphone with 5 to 7cm away from you mouth. Release TALK button at the end of transmission. You can now receive incoming calls. While receiving, the RX icon will appear on the LCD screen and Blue LED indicator lights.

3.5 Sending call tone

- Press **TALK** button twice shortly to send a page to other FRS in the same channel. The Blue LED indicator lights.

3.6 Automatic Power Save Feature

- After 6 seconds for the last operation, the FRS enters to the power saving mode automatically. The life of the batteries would be extended. The FRS is still able to receive transmission in this mode.

3.7 Low battery alert

- When the batteries in the unit are low, an alert tone will be heard and blue LED will flash once every 15 seconds. Replace new batteries immediately.

3.8 LCD backlight

Press any Key, Blue LED is lighted about 3 seconds.

3.9 Using batteries

- The FRS units operate with 3 x 1.5V AAA batteries.
- **CAUTION: Danger of explosion if battery is incorrectly replaced. For regular battery, replace only with the AAA equivalent type. Batteries should not be thrown with domestic rubbish. You may hand them in at your nearest collection point.**
- **Do not leave batteries installed over a long period of time as leakage may occur and this can destroy the radio.**

4.0 Channel and frequency table

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