

7. INSTRUCTION MANUAL

Linkomm Communication Network
FCC ID: PHC1027Z
Job #: 123AK1
Exhibit #: 6A

Safety Information For FRS UNIT

Your wireless handheld portable transceiver contains a low power transmitter.

When the Push-to Talk(PTT) button is pushed it sends out radio frequency (RF) signals.

This 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.

CAUTION: To maintain compliance with the FCC's RF exposure guidelines, hold the transmitter and antenna at least 2 inch (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 manufacturer's supplied belt clip for this product and ensure that the antenna is at least 1 inch(2.5 centimeters) from your body when transmitting.

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

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SPECIFICATIONS

■ GENERAL

- FRS Frequency Ranges 1 CH - 14 CH (462.5625 - 467.7125 MHz)
- Channel Steps 25MHz
- Channel FRS 14 Channel
- Frequency Stability $\pm 5\text{ppm}$ (-10°C ~ 50°C)
- Emission Types F3
- Antenna Impedance 50ohm. Unbalanced
- Supply Voltage 3.2 ~ 6.0V / DC
..... Negative Ground

■ RECEIVER

- SENS FOR 12dB SINAD..... -119dBm
- SQUELCH SENS. at THRESHOLD..... -113dBm
- AUDIO FREQUENCY RESPONSE..... -6 \pm 6dBm
- IN BAND CONDUCTED RX SPURIOUS..... 40dBm
- SPURIOUS REJECTION RATIO 54dBm
- IMAGE REJECTION RATIO 60dBm
- AUDIO DISTORTION at 1mV..... 10%
- AUDIO OUTPUT at 10% THD..... 800mV
- HUM & NOISE RATIO (UN SQUELCH)..... 35dB
- ADJACENT CHANNEL REJECTION RATIO..... 60dB
- INTER MODULATION REJECTION RATIO..... 54dB
- BATTERY LO INDICATOR 3.5V

■ TRANSMITTER

- CARRIER OUTPUT POWER 500mW
- MAXIMUM CURRENT AT 6.0V..... 350mA
- CONDUCTED HARMONICS EMISSION
2nd, 3rd, Other.....-60dB
- AUDIO FREQUENCY RESPONSE (1Khz DEV)
400Hz.....-20.0dB
1Khz 0dB
2.5Khz.....+4.0dB
- PEAK FREQUENCY DEVIATION (at 1.25Khz DEV)
AUDIO..... 2.5Khz
CTCSS..... 0.6Khz
AUDIO+CTCSS..... 3Khz
- TX DEVIATION..... 2.5Khz
- TX HUM & NOISE..... 30dB
(AT 1Khz/1.2Khz DEV)
- TX DISTORTION 3%
- MICROPHONE SENSITIVITY..... 6mV
(AF 1Khz/1.2Khz DEV)

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■ TEST CONDITION

- POWER SOURCE DC 6.0VOLTS
- ANT LOAD IMPEDANCE 50ohm NON - INDUCTIVE
- AUDIO LOAD IMPEDANCE 8ohm NON - INDUCTIVE

■ FREQUENCY RANGE

- 1ch..... 462,562.500Mhz
- 2ch..... 462,587.500Mhz
- 3ch..... 462,612.500Mhz
- 4ch..... 462,637.500Mhz
- 5ch..... 462,662.500Mhz
- 6ch..... 462,687.500Mhz
- 7ch..... 462,712.500Mhz
- 8ch..... 467,562.500Mhz
- 9ch..... 467,587.500Mhz
- 10ch..... 467,612.500Mhz
- 11ch..... 467,637.500Mhz
- 12ch..... 467,662.500Mhz
- 13ch..... 467,687.500Mhz
- 14ch..... 467,712.500Mhz

■ CTCSS FREQUENCY CHART

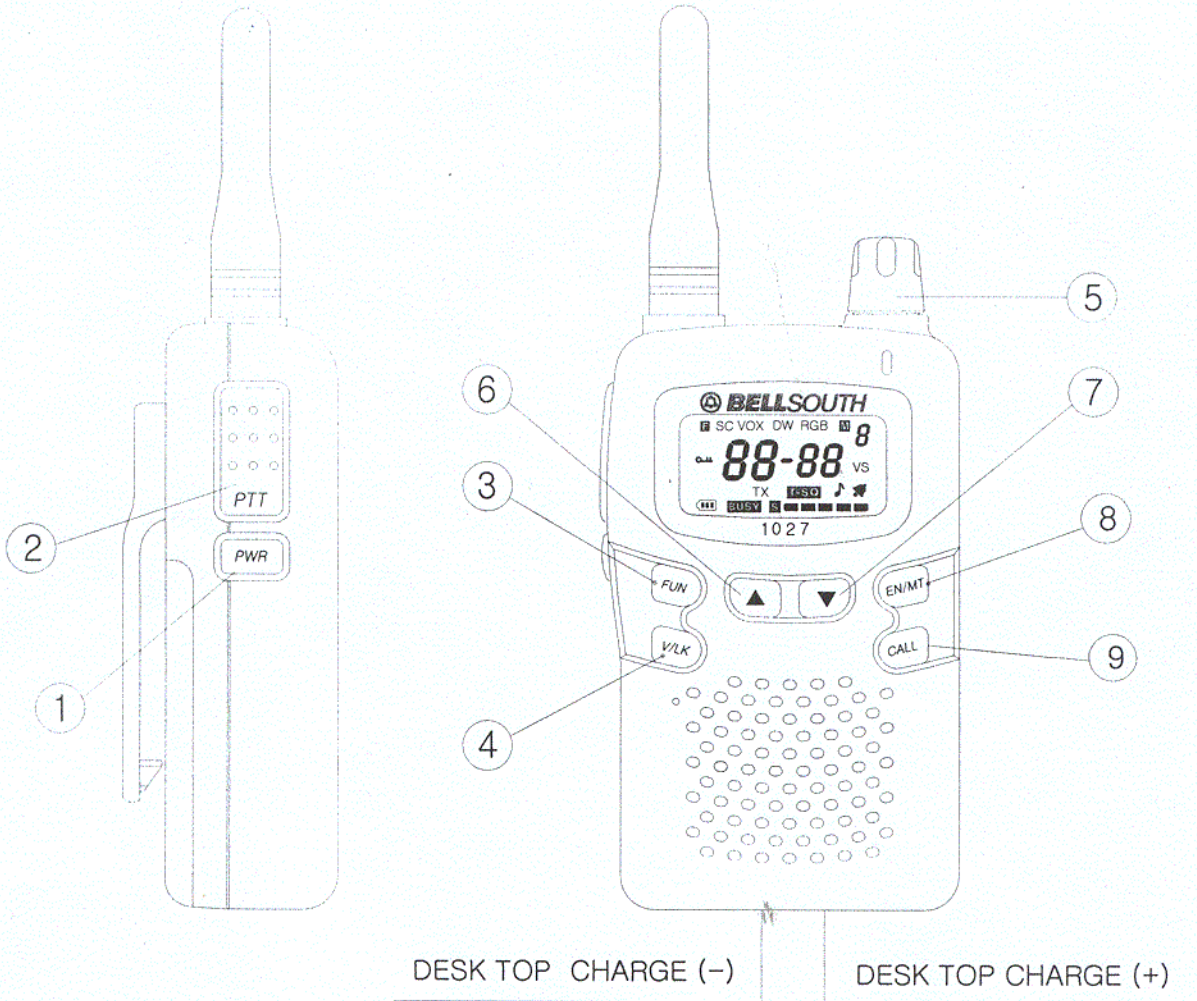
- | | | | | |
|--------|--------|--------|--------|--------|
| ■ 67.0 | ■94.8 | ■127.3 | ■173.8 | ■241.8 |
| ■ 71.9 | ■97.4 | ■131.8 | ■179.9 | ■250.3 |
| ■ 74.4 | ■100.0 | ■136.5 | ■186.2 | |
| ■ 77.0 | ■103.5 | ■141.3 | ■192.8 | |
| ■ 79.7 | ■107.2 | ■146.2 | ■203.5 | |
| ■ 82.5 | ■110.9 | ■151.4 | ■210.7 | |
| ■ 85.4 | ■114.8 | ■156.7 | ■218.1 | |
| ■ 88.5 | ■118.8 | ■162.2 | ■225.7 | |
| ■ 91.5 | ■123.0 | ■167.9 | ■233.6 | |

■ INSTALL BATTERIES

1. Rotate Belt clip screw by 360° to the counterclockwise with coin.
2. Rotate the belt clip by 90° to the clockwise
3. Pull (unlock) the battery cover locker.
4. Open the battery cover.
5. Insert 4 pieces of "AAA" battery but be careful of the polarity.

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CONTROLS



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OPERATION

■ POWER ON-OFF

1. Power On : Press PWR(1) to turn your transceiver on.
You will hear a confirming Sound and see "On" symbol on LCD.
2. Power Off: Press PWR(1) for 3 Or 4 Seconds to turn off.
You will hear a confirming sound and all indicating symbols disappeared on LCD.

■ POWER(ON/OFF) / BACKLIGHT

1. PWR(1) "ON" / "OFF"
 - Power On : Press "PWR"(1) shortly to turn the transceiver ON.
 - Power Off : Press "PWR"(1) for a few seconds to turn the Transceiver OFF.
2. BACKLIGHT
 - By pressing "PWR"(1) momentarily the LCD Backlight is turned ON.
Press again and then the LCD backlight is turned OFF.
 - 3 Seconds after the LCD backlight is turned On, the LCD backlight will be turned off automatically.

■ CHANNEL SELECTION

To change the basic channel ,press "up" or "down" button once.

- Press "UP"(6) button briefly to move the upward channel
- Press "DOWN"(7) button briefly to move the downward channel.

■ PTT(2) / PUSH TO TALK

- Pressing and holding "PTT"(2) button will allow you to speak to the other transceiver that is set to the same channel and privacy code setting as yours.

■ CALL(9)

- Pressing "CALL"(9) button will allow you to call the other transceiver.

"TX" indicator and "BELL" symbol will be displayed on LCD.

■ LOCK FUNCTION

- All buttons except "POWER ON/OFF"(1), "BACKLIGHT"(1), "CALL"(9), "PTT"(2) will not be operated at all when button lock function is enabled.
- To set the button lock function , press "V/LK"(4)button long key activity the lock mode displayed on LCD.
- Function press long key the set and reset, toggle.
- If lock setting is the "UP"(6) or "DOWN"(7) button not activity.

■ VOX ON/OFF FUNCTION

- To set the button VOX ON/OFF function. Press "V/LK" button short key activity, the button to toggle VOX mode "ON" to "OFF" , "OFF"- "ON" the VOX ON mode displayed "VOX" on LCD.

■ MON/MONITOR FUNCTION

- 1."EN/MT"(8) button to save all setting data into memories.
 - 2."EN/MT"(8) button to temporarily bypass the squelch setting and play all signals on given channels.
- This is useful when communicating with other parties at extreme range.

■ UP(6) / DOWN(7) BUTTON FUNCTION

- Normal use : The control of changing channel.
- Setting of function : SCAN(UP/DOWN), DW(UP/DOWN), T-SQ Channel(UP/DOWN), VOX ON/OFF, RGB ON/OFF, BEEP ON/OFF, LOCK ON/OFF.

■ VOLUME CONTROL

1. Turn right to increase volume.
2. Turn left to decrease volume.

■ FUN(3) BUTTON FUNCTION

In the standby mode, pressing "FUN"(3) button momentarily will enter the function edit mode.

- First press : Coded Tone Controlled Squelch System(CTCSS)
- Second press : Memory Saving or Read Mode's
- Third press : Channel Scan (Scan)
- Fourth press : Memory Read And Scan
- Fifth press : Dual Watch (DW)
- Sixth press : Beep Tone ON-OFF
- Seventh press : Roger Beep ON-OFF

■ CTCSS CHANNEL'S CHANGE FUNCTION

- To change the CTCSS channel, press "FUN"(3) button one time.
- Press "UP"(6) briefly to move the up CTCSS channel.
- Press "DOWN"(7) briefly to move the down CTCSS channel.
- After you finish to select your desired channel., pressing "EN/MT"(8) or "PTT"(2) or "CALL"(9)" button briefly to memorized your desired channel.

■ CHENNAL MEMORY

- Press "FUN"(3) two times.
- The number of a memory channel will be flickering on the right-top side of the LCD.
- Press "UP"(6) or "DOWN"(7) to select the desired number of a memory channel from 0 to 9.
- After selecting the number of a memory channel, press "FUN"(3).
- The number of a frequency channel will be flickering.
- Press "UP"(6) or "DOWN"(7) to select the desired number of a frequency channel.
- Press "FUN"(3) again to select the desired channel number of CTCSS frequency.
- Press "UP"(6) or "DOWN"(7) to select the desired CTCSS channel number.
- Finishing all the above procedure, press "EN/MT"(8) or "PTT"(2) or "CALL"(9) to memorize the desired channels.

■ SCAN CHANNEL FUNCTION

- To set the Scan channel mode, press "FUN"(3) button three times.
- The indicator of "SC" will be flickering on the LCD.
- Press "UP"(6) button to move the up road scan.
- Press "DOWN"(7) button to move the down road scan.
- Press "EN/MT"(8) button to monitor the desired channel.
- After you finish to select your desired channel, pressing "PTT"(2) or "CALL"(9) button briefly to memorized your desired channel.

■ MEMORY SCAN

- To set the memory scan mode, press "FUN"(3) button four times.
- The indicator of "SC" will be flickering on the LCD.
- Press "UP"(6) button or "DOWN"(7) to scan the channel.
- During scanning, the external strong signal will stop the scan.
- To release the memory scan mode, press "EN/MT"(8) or "PTT"(2) or "CALL"(9).

■ DW(DUAL WATCH) INDICATOR

- To set the DW(Dual Watch) function, press "FUN"(3) button four times.
- The indicator of "DW" will be flicking on the LCD. Press "UP"(6) or "DOWN"(7) to select the desired channel.
- Press "EN/MT"(8) button to monitor the desired channel.
- After you finish to select your desired channel, pressing DW channel's monitor briefly to memorized your desired channel.

■ BEEP TONE FUNCTION

- To set the beep tone function when pressing "FUN"(3),"UP"(6)/"DOWN"(7),"EN/MT"(8) with the sound, press the "FUN"(3) five times sequentially and then "bp-of" letters will be displayed on LCD.
- Press the "UP"(6) or "DOWN"(7) button to toggle the beep tone mode from "ON" to "OFF" or Vice Versa.
- Press "EN/MT"(8) or "PTT"(3) button to confirm your setting.

■ RGB (ROGER BEEP) INDICATOR

- Roger beep notifies the end of transmission to the other transceiver to set RGB(roger beep).
- Press "FUN"(3) button four times sequentially and "rb-of" letters will be displayed on LCD.
- Press "UP"(6) or "DOWN"(7) button to toggle RGB mode from "ON" to "OFF" or "OFF" to "ON" .
- At the same time "RGB" letters on LCD will be flickering.
- Press "EN/MT"(8) or "PTT"(3) button to confirm your selection.