**MK-1996 Basic Operation 03-02-10**

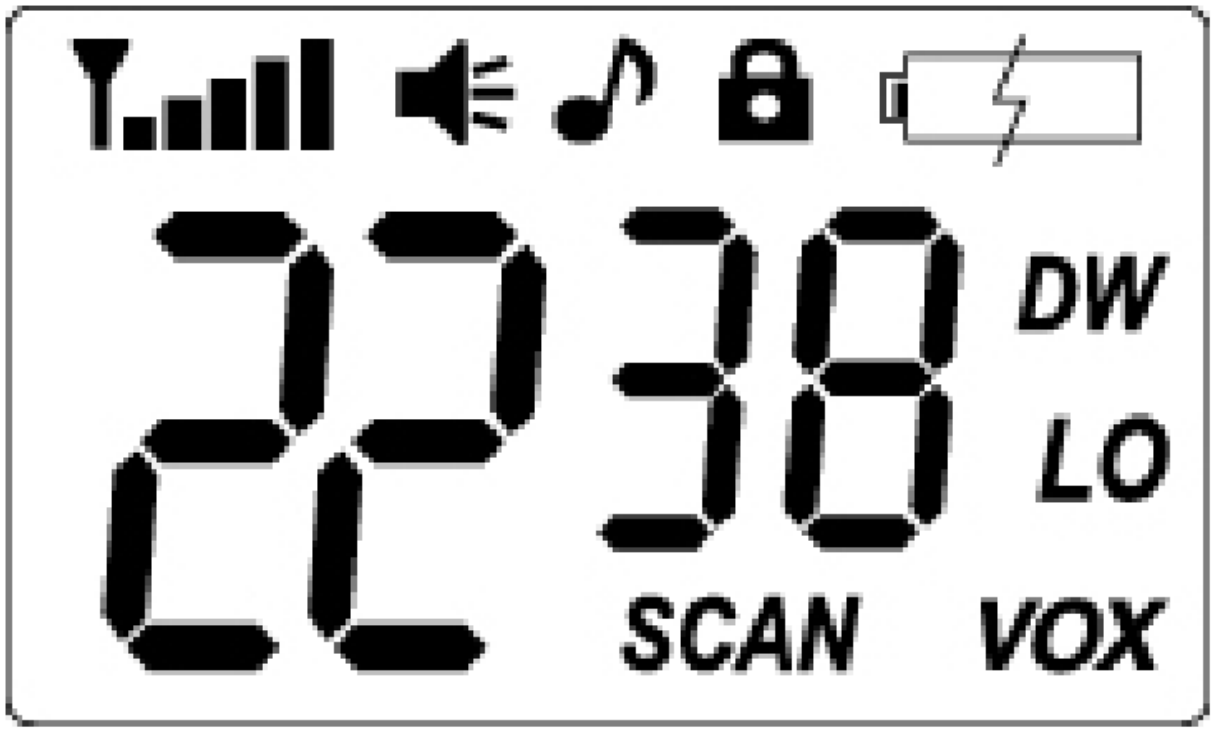
# 1. General Specification

- Power On/Off Key : Top
- PTT Key : Side [ Tact SW ]
- Monitor Key : Side [ Tact SW ]
- UP Key : Top
- Down Key : Top
- SCAN Key : Top
- CALL Key : Top
- Menu Key : Top
- EXT Mic/Speaker Jack[ 3.5ö ]

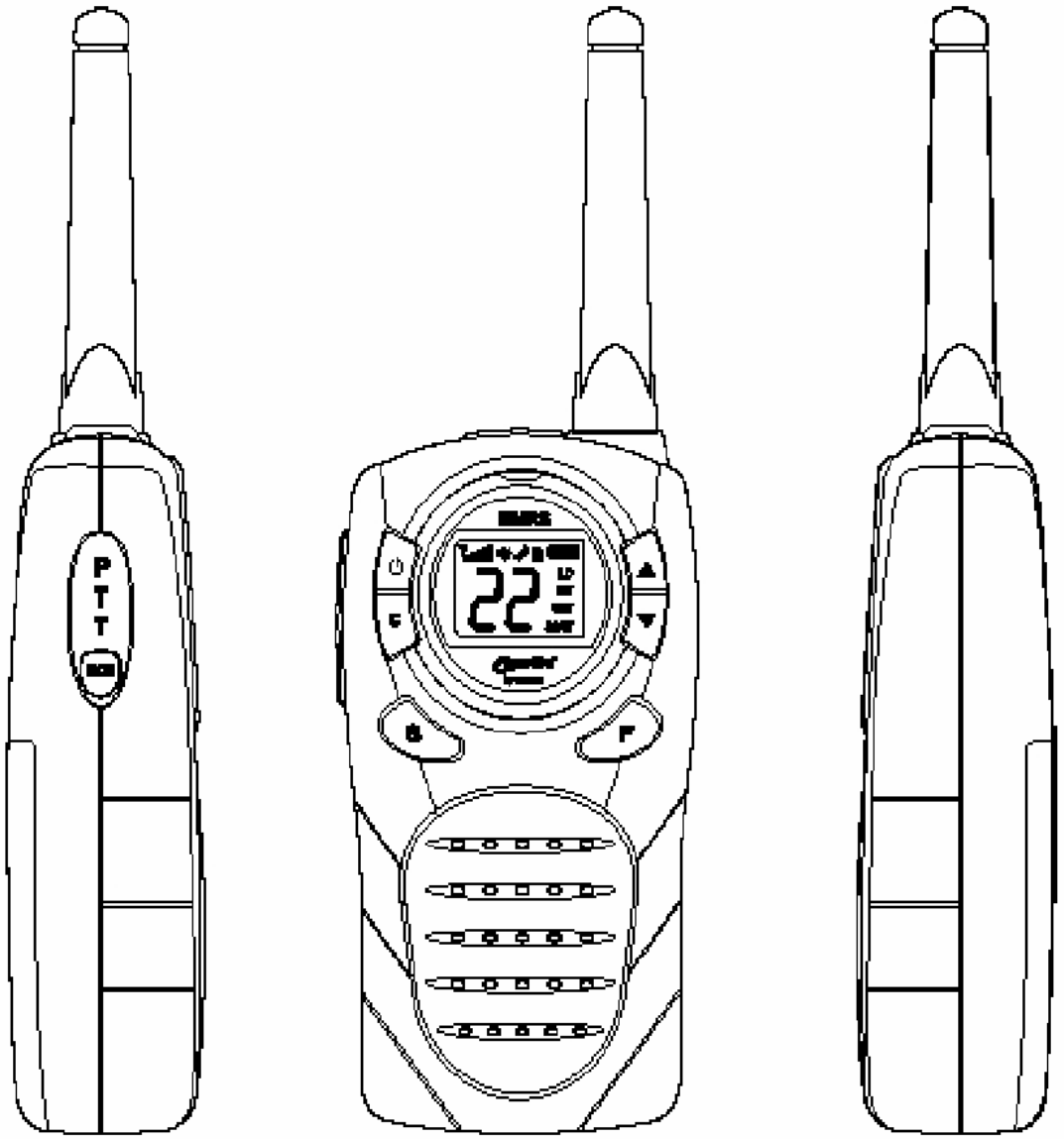
# 2. Function Flow Chart

F CTCSS PWR Hi/Low DW VOX BEEP Tone Ringer Tone(CALL) F

# 3. LCD Display



## 4. Front, Side, Top Overview



## 5. Operating Instruction

**1) On/Off & Volume control Switch**

- **Radio ON** : Press power button. All indicators will appear momentarily on the LCD and you will hear short beep sound.
- **Radio Off** : Press power button all indicators disappear on the LCD.
- **Volume setting** : Press up[▲] or down[▼] button or adjust level that is most comfortable for you.

**2) Setting the Channel**

GMRS-102SLV has 15 main channels.

- **To select the channel**
- Press Function[**F**] button once and channel digit will blink on the LCD.
- Press up[▲] or down[▼] button to choose the channel.
- Press the PTT button or Function[**F**] button to confirm

**3) Setting the Transmit Power HI/LO**

- HI : 1.6W TX power
- LO : 500mW TX power
- **To set the TX output power**
- Press the Function[**F**] button until the [ **Po LO** or **HI ] appears.**
- Press the up[▲] button or down [▼] button to set the TX power
- Press the PTT button or Function[**F**] button to confirm.
- **HI** or **LO** will appear on the LCD.
- If the battery is in low condition, the TX Power will be switched to LO automatically. Even though the TX power is set to HI.

**4) Setting the DW(dual watch)** and **CTCSS** in **DW** mode**.**

- **To active the DW mode**
- Press the Function[**F**] button until the [ **oF** or **1** up to **15]** and **DW icon** blink on the LCD**.**
- Press the up[▲] button or down [▼] button to choose the channel.
- " **oF** " means no DW mode.
- Press the PTT button or Function[**F**] button to confirm.
- **DW** icon will appear on the LCD.
- **To stop the dual watch(DW)**
- Press the "**S**" Scan button, the unit will stop the dual watch and will return to normal operation and **DW** icon will disappear from the LCD.
- **DW** icon will disappear from the LCD.

**5) VOX (Voice Operated Transmission)**

This option enables you to have hands-free conversation. You do not have to operate the PTT button each time when you want to transmit.

You can also choose the VOX sensitivity to suit your environment of operation.

(Ex ; noisy road, motor bike, factory etc.)

- **To set the VOX mode.**
- Press the Function[**F**] button until the [ **Uo 0** or **x** ] appears. **0** is a vox level
- **VOX** icon will be appeared on the LCD.
- **To set the VOX level**
- Press the up[▲] button or down [▼] button to set the VOX level from 1 to 3.
  **"oF"** is disable the VOX function.
  **" 3 "** is most sensitive.
  **" 1 "** is least sensitive.
- Press the PTT button or Function[**F**] button to confirm.

**6) Beep AND Roger tone**

This feature will give the tone signal to other parties when transmitting finished (when PTT button is released.)

- **To activate or disable the beep tone**
- Press the Function[**F**] button until [**rb on** or **oF**] and the **Roger [♪]** icon blink on the LCD.
- Press the up[▲] button or down [▼] button.
- Press the PTT button or Function[**F**] button to confirm.

**7) Setting the Ringer**

This feature provides 3 user selectable call ringer signal.

- **To set your favorite call ringer signal.**
- Press the Function[**F**] button until the [ **C 1** or up to **3** ] appears on the LCD.
- Press the up[▲] button or down [▼] button to select the call melody type.
- Press the PTT button to confirm.

**8) Transmitting**

- Press and hold the PTT button (The "TX" LED will light with red color)
- Speak slowly and clearly
- To stop the transmission, release the PTT button
- If there are no more receiving signal for 5 seconds, the unit will go into power save mode and then the "TX" LED will blink with green color.

**9) Receiving**

The coding feature reduces the possibility of interference and provides enhanced communication. You can only listen to a call that has correct matching code.

**Important ;**

Before transmitting or receiving to the other parties ;

- Correct channel is selected ( 1 to 15 )

**10) Channel Scanning**

This feature allows you to monitor all activated channels while scanning.

- **To activate the Scan**

- Press the Scan[**S**] button
- Radio will begin scanning.
- When in scan mode, the display will show each scanning channel.
- After an activated channel is scanned and received signal and then if there is no more signal, the scan will resume automatically.

- **To disable the Scan**

- Press the Scan[**S**] button, the unit will stop the scanning.
- **SCAN** icon indicator will disappear from the LCD
- The unit will return to home channel.

**11) Call**

- Press the Call[**C**] button.(The "TX" LED will light with red color.)

**12) Monitoring the channel**

It is used for listening the week signal or to hear all activities on the channel by manually overriding channel setting.

- **To activate the Monitor feature**

- Press and hold the Monitor[**M**] button.
  (The **monitor**[ ] icon will appear on the LCD.)

- **To disable the Monitor feature**

- Press the Monitor[**M**] button once.
  (The **monitor**[ ] icon will disappear on the LCD.)

**13) Keypad Lock**

The lock function is to avoid the accidental changes to channel with other radio settings. All buttons will be locked except the Power, PTT and monitor button.

- **To lock the keypad**

- Press and hold down the Scan[**S**] button for over 2 seconds.
- Keypad will lock.( **LOCK**[🔒] icon will appear on the LCD)

- **To unlock the keypad**

- Press and hold down the Scan[**S**] button for over 2 seconds.
- Keypad will unlock. ( **LOCK**[🔒] icon will disappear on the LCD)

**14) Battery status indicator**

The Battery[▭] icon will blink when the radio is in low battery power.
Charge the rechargeable battery or replace the batteries.

- Full battery - Battery[▭] icon is not displayed.
- Low battery - Battery[▭] icon is displayed.
- Low battery warning – Battery[▭] icon will blinking.

**15) External charger socket**

MIC socket can be used for the charging purpose.
It should use the recommended rechargeable battery and wall charger.

**16) External Speaker - Mic**

Use the approved accessories only to have the optimum performance.
- Ear/Mic unit

## FCC Information

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 UNDERSIRED OPERATION.

## Safety Information For GMRS UNIT

"Important: FCC RF Exposure Requirements:
- Operation must not exceed a maximum transmitting duty factor of 50% for satisfying RF exposure compliance.
- For body-worn operation, this radio has been tested and meets the FCC RF exposure guidelines when used with GENEX accessories supplied or designated for this product. Use of other accessories may not ensure compliance with FCC RF exposure guidelines. Use only the supplied antenna. Unauthorized antennas, modifications, or attachments could damage the transmitter and may violate FCC regulations. "

**Normal Position:** Hold the transmitter approximately 1" from your face and speak in a normal voice, with the antenna pointed up and away.

**GMRS Licensing requirements:** The Code of Federal Regulations requires the owner/operator of this equipment to hold a FCC license when operating in the GMRS mode. Operation on the GMRS frequencies is subject to additional rules as specified in 47 CFR Part 95.

GMRS / FRS Frequency Chart

| Channel | Frequency (MHz) | Use | Power | Channel | Frequency (MHz) | Use | Power |
|---|---|---|---|---|---|---|---|
| 1 | 462.5625 | FRS/GMRS | High/low | 12 | 467.6625 | FRS/GMRS | Low |
| 2 | 462.5875 | FRS/GMRS | High/low | 13 | 467.6875 | FRS/GMRS | Low |
| 3 | 462.6125 | FRS/GMRS | High/low | 14 | 467.7125 | FRS/GMRS | Low |
| 4 | 462.6375 | FRS/GMRS | High/low | 15 | 462.5500 | GMRS | High/low |
| 5 | 462.6625 | FRS/GMRS | High/low | 16 | 462.5750 | GMRS | High/low |
| 6 | 462.6875 | FRS/GMRS | High/low | 17 | 462.6000 | GMRS | High/low |
| 7 | 462.7125 | FRS/GMRS | High/low | 18 | 462.6250 | GMRS | High/low |
| 8 | 467.5625 | FRS/GMRS | Low | 19 | 462.6500 | GMRS | High/low |
| 9 | 467.5875 | FRS/GMRS | Low | 20 | 462.6750 | GMRS | High/low |
| 10 | 467.6125 | FRS/GMRS | Low | 21 | 462.7000 | GMRS | High/low |
| 11 | 467.6375 | FRS/GMRS | Low | 22 | 462.7250 | GMRS | High/low |

**Note: Channels 1 through 14 are shared with FRS radio service. Operations in the FRS band without a FCC license is restricted to low power transmit (0.5 watts). The GMRS radios require the user to place the unit in low power mode for FRS operation. The GMRS unit will automatically select low transmit power (0.5 watts) when FRS channels 8-14 are selected.**

CTCSS Tone Frequency Chart

| NO | FREQ.(Hz) | NO | FREQ. (Hz) | NO | FREQ. (Hz) |
|---|---|---|---|---|---|
| 1 | 67.0 | 14 | 107.2 | 27 | 167.9 |
| 2 | 71.9 | 15 | 110.9 | 28 | 173.8 |
| 3 | 74.4 | 16 | 114.8 | 29 | 179.9 |
| 4 | 77.0 | 17 | 118.8 | 30 | 186.2 |
| 5 | 79.7 | 18 | 123.0 | 31 | 192.8 |
| 6 | 82.5 | 19 | 127.3 | 32 | 203.5 |
| 7 | 85.4 | 20 | 131.8 | 33 | 210.7 |
| 8 | 88.5 | 21 | 136.5 | 34 | 218.1 |
| 9 | 91.5 | 22 | 141.3 | 35 | 225.7 |
| 10 | 94.8 | 23 | 146.2 | 36 | 233.6 |
| 11 | 97.4 | 24 | 151.4 | 37 | 241.8 |
| 12 | 100.0 | 25 | 156.7 | 38 | 250.3 |
| 13 | 103.5 | 26 | 162.2 | 00 | 0 |