BATTERY INFORMATION

1. CHARGING LI-ION BATTERY PACK
The battery is not charged in the factory. Before new, please charge rechargeable batteries that are new or not used for a long time. Repeat charge/discharge twice or three times to make the battery capacity achieve the best state.
When battery power is low, please charge the battery or charge the battery.

2. BATTERY APPLIED
Please use the battery specified for charging; using other batteries may cause explosion, causing bodily injury.

Notes
1. If the battery pack has been fully charged, please do not charge it again, otherwise the service life of the battery pack may shorten or it may be damaged.
2. After recharging the battery pack, please take it from the battery charger, since charging the battery pack for more than 5 days will cause shortening of the service life of the battery pack resulting from over charging.
3. The environmental temperature during charging should be between 0 and 40 degrees centigrade. Charging beyond the range may affect correct charging.
4. During charging, please power off the radio with battery. Using the radio during charging may affect correct charging.
5. During the whole charging process, please try not to plug or pull out the power supply or the battery, to avoid interference to charging process.
6. If the service time is significantly reduced even after completely correct charging, the battery can not be used any more. Please replace a new battery.
7. If the battery is fully charged, please do not remove the plug and recharged it, otherwise the service life of the battery pack may shorten or it may be damaged.
8. When the battery or radio is wet, don’t charge it. Before charging, use dry cloth to wipe it, to avoid danger.

SWITCHING POWER SUPPLY
Turn it on and press the power button [4] for 3 seconds, turn on the radio power and you can hear “tick” twice at the same time. If the function of voice number reporting is enabled for the radio, the radio will voice broadcast current corresponding channel.

VOLUME ADJUSTMENT
Press the navigation button VOL [up] [down] to adjust the volume among eight levels.
**CHANNEL SELECTION**
Press numeric button 1-16 or navigation buttons CH [left] [right] to select the channel needed.

**SETTINGS OF THE MAIN CHANNEL**
1. Select a channel from 1 to 16 channels before pressing numeric button [16] for 3 seconds. Settings of the main channel can also be done through computer programming.
2. If the current channel is not the main channel, and there is no operation within reset time of the main channel, the radio will automatically return the main channel set currently.
3. Main channel reset time can be set by function setting in the writing-frequency software (can be set to 10 seconds, 20 seconds...600 seconds). Setting of the main channel can be by the setting function.

**PTT EMISSION BUTTON**
1. Before calling, hold the “PTT button” while talking to the microphone in normal voice. Both side PTT emission button and navigation PTT button can do normal emission.
2. Please keep 5-10 cm between lips and the microphone.

**KEYBOARD LOCKOUT**
Press numeric button [1] for 2 seconds, lock the keyboard, operate it again, and unlock the keyboard.

**ELECTRICITY PROMPT**
Press numeric button [2] for 2 seconds to get the current battery electricity values.

**SCANNING**
Press numeric button [3] for 2 seconds and get the voice prompt of scanning. At the moment, the radio conducts channel scanning from 1 to 16 channels in order. Exit the channel scanning by pressing any buttons.

**ON AND OFF**
Turn on/off the radio by pressing numeric button [4] for 3 seconds.

**MONITORING**
Change to monitoring mode by pressing numeric button [5] for 2 seconds.

**LIGHT**
Press numeric button [6] for 2 seconds, and the light turns on and it turns off after another operation.

**FM RADIO**
Press numeric [7] for 2 seconds to the radio mode. Press CH [left] [right] to search radio frequency automatically, quit the radio after another operation.

**CALL**
By setting the dual tone multiple frequency (DTMF) signal, conduct the work by pressing numeric button [8] for 2 seconds or sending code by PTT button.

**EMITTING 1750 RELAY SIGNAL**
Press numeric button [9] for 2 seconds. 1750 signal can be sent, which is mainly used to open an emission signal in a European relay station. The function is unavailable for domestic relay station.

**VOICE CONTROL FUNCTION**
Press numeric button [10] for 2 seconds to enable the voice control function of the current channel, and function disables after another operation.

**HIGH/LOW POWER**

**WARNING**
Press numeric button [12] for 2 seconds to enable warning function. The radio in the same channel can receive the warning signal. Press PTT button to quit warning function.

**SETTING OF THE MAIN CHANNEL**
Press numeric button [16] for 2 seconds to set the main channel. Adjust the channel to the one needed, and press numeric button [16] for 2 seconds, then the main channel setting complete.

**COMPUTER PROGRAMMING**
Read the frequency within the radio with the computer, and the following functions can be set by function settings:
1. **Voice Notification on/off**
2. **Squelch**
3. **Power Squelch**
4. **Squelch**

**Enable the function, change to power saving mode after being under standby state without signal receiving or emission for 10 seconds.**
5. **Time-out time**
   Prevent any call with too long hold-up time. If it continuously emits longer than programming time set, the radio may stop emitting and send out a warning.
6. **Voice Control Gain Inversion Level**
   The function is to adjust voice control sensitivity.
7. **Scanning Mode Carrier Wave/Time**
8. **Setting of the Main Channel**
9. **Reset Time of the Main Channel**
10. **Beep**
    After enabling the function, press the numeric button, and it beeps and responding voice. Disable the function, there is no beep if press the numeric button.
11. **Warning Tone for Emission End**
    After enabling the function, there is a beep after emission and the voice will be sent to the other party.
12. **High/Low Power**
13. **Selection of Broadband/Narrow Band**
    Selection broadband for frequency space >25KHz and narrow band for frequency space <25KHz.
14. **Busy Channel Lockout**
    Enabling the function can prevent interference by other radios using the same channel. If you press the [PTT] button during key channel occupancy, the radio may send out warning and cannot emit signals, and it returns to the receiving mode.
15. **Scrambling/Companding**
    Scrambling/companding mode is available.

**The Whole Part**

<table>
<thead>
<tr>
<th>Frequency Range</th>
<th>DC 7.2 (L-ion battery)</th>
</tr>
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<tbody>
<tr>
<td>Memory channel</td>
<td>16 Channels</td>
</tr>
<tr>
<td>Antenna config.</td>
<td>Inductive Loaded Antenna</td>
</tr>
<tr>
<td>Antenna Impedance</td>
<td>50Ω</td>
</tr>
<tr>
<td>Working</td>
<td>Tone/frequency simplex QI of frequency simplex</td>
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<tr>
<td>volume</td>
<td>121±59±27mm</td>
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</table>

**Emission Part**

<table>
<thead>
<tr>
<th>Output Power</th>
<th>5W</th>
</tr>
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<tbody>
<tr>
<td>Modulation Mode</td>
<td>Frequency Adjustment</td>
</tr>
<tr>
<td>Maximum Deviation</td>
<td>≤±5kHz</td>
</tr>
<tr>
<td>Residual Wave Radiation</td>
<td>&lt; -60dB</td>
</tr>
<tr>
<td>Pre-emphasis Features</td>
<td>Per octave 6dB</td>
</tr>
<tr>
<td>Emission Current</td>
<td>&lt;1.13A</td>
</tr>
</tbody>
</table>

**Receiving Part**

<table>
<thead>
<tr>
<th>Sensitivity</th>
<th>&lt; -0.18μV (12dB SINAD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slencing Sensitivity</td>
<td>&lt; 0.2μV</td>
</tr>
<tr>
<td>Intermodulation Power</td>
<td>50dB</td>
</tr>
<tr>
<td>Audio Power</td>
<td>&gt; 300dB</td>
</tr>
<tr>
<td>Received Current</td>
<td>&lt; 300mA</td>
</tr>
<tr>
<td>Slencing Waiting</td>
<td>60mA</td>
</tr>
</tbody>
</table>

*The best frequency points for the models are between 400-468MHz. We may change the specifications for technical improvement without prior notice."