Safety and Overview

We are grateful that you choose Ailunce digital radio. We believe this easy-to-use transceiver will provide dependable and reliable communication to personal operating at peak efficiency. The transceivers incorporate the latest in advanced technology. As a result, we feel strongly that you will be pleased with the quality and features of this product!

Product safety and RF exposure for hand held

Before using this two way radio, please read the manual which contains important operating instructions for safe usage, RF Energy Awareness, control information and operational instructions for compliance with RF Energy Exposure limits in applicable national and international standards. Also read the operational instructions for safe use.

Is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.

EU Declaration of Conformity:
Refer to article 10(9), shall be provided as follows:
Hereby, Shenzhen Retevis Technology Co., Ltd declares that the radio equipment type [designation of type of radio equipment] is in compliance with Directive 2014/53/EU.
The full text of the EU declaration of conformity is available at the following internet address: www.retevis.com.
## Technical Specifications

### General Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Frequency Range</strong></td>
<td>VHF 136-174 MHz &amp; UHF 400-480 MHz</td>
</tr>
<tr>
<td><strong>Channel Capacity</strong></td>
<td>3000 Channels</td>
</tr>
<tr>
<td><strong>Channel Spacing</strong></td>
<td>Analog 25/20/12.5KHz / Digital 12.5KHz</td>
</tr>
<tr>
<td><strong>Operating Voltage</strong></td>
<td>7.4V</td>
</tr>
<tr>
<td><strong>Power Supply Voltage (PSV)</strong></td>
<td>12V</td>
</tr>
<tr>
<td><strong>Battery Type / Capacity</strong></td>
<td>Lithium battery Li-ion / 3200mah</td>
</tr>
<tr>
<td><strong>Operating Temperature</strong></td>
<td>-30°C ~ +60°C</td>
</tr>
<tr>
<td><strong>Ingress Protection (IP)</strong></td>
<td>IP67</td>
</tr>
<tr>
<td><strong>Antenna Impedance</strong></td>
<td>50Ω</td>
</tr>
<tr>
<td><strong>Audio Out Power</strong></td>
<td>≥500mW</td>
</tr>
<tr>
<td><strong>Dimensions</strong> (H<em>W</em>D)</td>
<td>150 x 65 x 39 mm (without antenna)</td>
</tr>
</tbody>
</table>

### Receiver

- **Analog Sensitivity**: 0.16 μV (12dB SINAD)
- **Digital Sensitivity**: 0.14 μV (5% BER)
- **Co-channel rejection**: ≥ -12dB
- **Inter Modulation**: 70dB
- **Spurious Response**: TIA603C:75dB ETSI:70dB

### Audio Out Power

- Analog: 0.16 μV (12dB SINAD)
- Digital: 0.14 μV (5% BER)

### Transmitter

- **TX Power (selectable)**:
  - VHF: 10W/5W/1W
  - UHF: 8W/4W/1W
- **Frequency Stability**: +1.0ppm
- **Adjacent Power**:
  - VHF: 60dBm@12.5KHz, 70dBm@25KHz
  - UHF: 50dBm@12.5KHz, 60dBm@25KHz
- **FM Modulation**:
  - 12.5KHz@11K0F3E, 25KHz@16K0F3E
- **Modulation Deviation**:
  - 12.5KHz@11K0F3E, 25KHz@16K0F3E
- **Digital Protocol**:
  - AMBE+2™
- **Vocoder Type**:
  - AMBE+2™
- **Modulation BER (bit error rate)**: ≤5%
- **4FSK Digital Mode**:
  - 12.5KHz (date only): 7K60FXD
  - 12.5KHz (data+voice): 7K60EXE
- **Global Position System (GPS)**:
  - TTFF - 49sec Cold/8sec Warm Start
  - Horizontal accuracy: ≤2.98meter
Unpacking and Checking Equipment

Welcome to use DMR radio, before using we suggest you

- Please check the packing box of this product and see if there is any sign of damage
- Please open the packing box carefully, we recommend that you identify the items listed in the following packing list. If you find that our product and its accessories in handling are lost or damaged during the shipment, please immediately contact dealers.

Parts list

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radio</td>
<td>1</td>
</tr>
<tr>
<td>Flexible Antenna</td>
<td>1</td>
</tr>
<tr>
<td>Li-ion battery pack</td>
<td>1</td>
</tr>
<tr>
<td>Desktop Charger</td>
<td>1</td>
</tr>
<tr>
<td>Power Adapter</td>
<td>1</td>
</tr>
<tr>
<td>Belt clip</td>
<td>1</td>
</tr>
<tr>
<td>User’s Manual</td>
<td>1</td>
</tr>
<tr>
<td>Hand-Strap</td>
<td>1</td>
</tr>
</tbody>
</table>

Unpacking and checking equipments

Carefully unpack the radio. We recommend you check the items listed in the following table before discarding the package. If any item is missing or has been damaged during shipment, please contact us immediately.

Supplied accessories:

<table>
<thead>
<tr>
<th>Antenna</th>
<th>Li-ion battery</th>
<th>Desktop Charger</th>
<th>Power Adapter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belt clip</td>
<td>Hand-Strap</td>
<td>User’s Manual</td>
<td></td>
</tr>
</tbody>
</table>

Note: The antenna frequency range please refers to the circular label at the bottom of antenna.
Battery Using Information

1. Using the Battery
The battery is not completely charged at the factory, please charge it before using.
To extend the battery life time, please power off the battery when you don’t use two way radio, and save battery in a cool (temperature less than 25°C) and dry place.

2. Precautions of Charging the Equipment
1. Do not expose the Charger to rain or snow.
2. Do not operate the Charger if it has received a sharp blow, or has been dropped or damaged in any way.
3. Do not disassemble the Charger if it has received a sharp blow, or has been dropped or damaged in any way.
4. Never alter AC cord or plug provided with the unit, if the plug will not fit the outlet, have the proper outlet installed by a qualified electrician, an improper condition can result in a risk of electric shock.
5. To reduce the risk of damage to the cord or plug, pull the plug rather than the cord when disconnecting the Charger from AC receptacle.
6. To reduce the risk of electric shock, Unplug the charger from the outlet before attempting any maintenance or cleaning.
7. Use of an attachment not recommend or sold may result in a risk of fire, electric shock, or personal injury.
8. Make sure the cord is located so it will not be stepped on tripped over or subjected to damage or stress.
9. An extension cord should not be used unless absolutely necessary. Use of an improper extension cord could result in a risk of fire and/or electric shock. If an extension cord must be used make sure that:
   • The pins on the plug of the extension cord are the same number, size and shape as those on the plug of the charger.
   • The cord size is 18AWG for lengths up to 30 meters, and 16AWG for length up to 45 meters.
10. Do not replace charger power cord, if the power cord damages, you must stop using charge immediately.

3. Charging the Battery
Please use the battery charger designated to charger battery after purchase or extended storage (more than two months), the first time to charge battery cannot make battery reach its normal operating capacity. After repeating charger/discharge it two or three times, the operating capacity will increase to its normal capacity.

4. Please Charge the Radio According To Operation Steps As Follow
1. Insert power adapter into power supply socket.
2. Insert output terminal of power adapter into DC jack behind the charging kit.
3. Insert the battery or radio equipped with battery into the charging kit.
4. Confirm the battery and charging kit terminal contact reliable, when charging indicator light turns into red and charging starts.
5. After completion of charger (charging about 7 hours), light turns to be green.
5. After finish charging, (charging time is about 7 hours), indicator turns green.

<table>
<thead>
<tr>
<th>Status</th>
<th>Indicator</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power connect</td>
<td>Red light and Green light Alternate Flicker</td>
</tr>
<tr>
<td>Charge normally</td>
<td>Red light is on</td>
</tr>
<tr>
<td>The battery is fully charged</td>
<td>Green light is on</td>
</tr>
<tr>
<td>Fault (battery short circuit or over discharge state)</td>
<td>Red light flashes</td>
</tr>
</tbody>
</table>

Note: Before charging, please turn off the radio power equipped with battery. When charging, using radio will interfere with normal charge of battery and transceiver effect.
**Attachment Installing**

**Installing / Removing the Li-ion Battery**

Match the grooves of the battery pack with the corresponding guides on the back of the transceiver, and then push it. Press the battery and radio firmly together until the release latch on the top of the radio locks. After hearing a “click” sounds, the battery has been locked. To remove the battery, make sure the radio has been turn off, then slide up the release latch and remove the pack away from the radio.
Installing / Removing the Antenna
Screw the antenna into the connector on the top of the radio by holding the antenna base and turning it clockwise until secure. To removing the antenna, turn the antenna anticlockwise to remove it.

Installing / Removing the Belt Clip:
Place the belt clip to the corresponding grooves on the back of the radio, and then screw it if need it. Anticlockwise turn screws to remove the belt clip will removing the belt clip.
Installing Optional Speaker/ Microphone
Uncover the SPMIC cover and then insert the speaker / microphone plug into SPMIC Jack

Optional Function Setting (programmable by software)
Either side key 1 or side key 2 all can be set by program software for the following Function

<table>
<thead>
<tr>
<th>Long press and short press Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not set</td>
</tr>
<tr>
<td>High /Middle/Low power switch</td>
</tr>
<tr>
<td>Scan ON / OFF</td>
</tr>
<tr>
<td>FM</td>
</tr>
<tr>
<td>Awaken</td>
</tr>
<tr>
<td>Repeater / Talk Around</td>
</tr>
<tr>
<td>One-Touch 1</td>
</tr>
<tr>
<td>One-Touch 2</td>
</tr>
<tr>
<td>One-Touch 3</td>
</tr>
<tr>
<td>One-Touch 4</td>
</tr>
<tr>
<td>One-Touch 5</td>
</tr>
<tr>
<td>One-Touch 6</td>
</tr>
<tr>
<td>VOX ON / OFF</td>
</tr>
<tr>
<td>Radio Kill</td>
</tr>
<tr>
<td>Analog Monitor</td>
</tr>
<tr>
<td>1000Hz</td>
</tr>
<tr>
<td>1450Hz</td>
</tr>
<tr>
<td>1750Hz</td>
</tr>
<tr>
<td>2100Hz</td>
</tr>
</tbody>
</table>
Basic Operations

Power On
Clockwise to turn on the radio volume knob, there will a “click” sound, message sound and the screen will show up welcome, while the LED indicator lights up and become red if the battery is full charged.

Notice: if the volume function is forbidden, there will not any sound when power on here need to power off the radio and anticlockwise with the knob until a click sound.

Volume Control
Clockwise the volume knob to higher the volume or anticlockwise to lower.

Launch and Receive Call

Zone Selection
Zones is a channel group, each radio can set at most 256 zones and each zone with 64 channel (Maximum).

The menu function,
1. Press [ ] key to enter the menu.
2. Press [ ▼ or ► ] key to zone, after that press [ ] key to select.
3. Show the zone.
4. Press [ ▼ or ► ] to chosen zone, after that press [ ] to select.
5. The screen show chosen zone, then back to chosen zone screen.

Select’s Channel, User ID or Group ID
Select the needed zone (if there are more than one zone), using the channel knob to select the channel, user name or ID, group name or ID.

Receive and Reply Group Call
The radio must be under a group, then can receive the group call.
When received the group call,
1. LED indicator is green color.
2. On the top screen will show RSSI mark, below the top screen will show, First line will show the group name, second line will show income call ID, third line will show income area information, the fourth line will show frequency (in digital mode only).
3. Hold the Walkie-talkie in a vertical position and keep 1 to 2 inches (2.5 to 5.0cm) away the mouth.
4. Press PTT key to answer the call, LED indicator light change to red color.
5. Release the PTT key to receive the call.
6. If there are not any voice activity within the stipulated time, the call end.

Receive and Reply the Single Call
Single Call is one to one calling, only two types, 1. Radio self detect before calling; 2. Ready to call.
When Receive the Single Call,
1. LED indicator is green color.
2. On the top screen will show RSSI mark, below the top screen will show, First line will show the group name, second line will show income call ID, third line will show income area information, the fourth line will show frequency (in digital mode only).
3. Hold the radio in a vertical position and keep 1 to 2 inches (2.5 to 5.0cm) away the mouth.
4. Press PTT key to answer the call, LED indicator light change to red color.
5. Release the PTT key to receive the call.

Receive All Call
All Call means communications with all members on the same channel and to public important information.
When receive the all call,
1. LED indicator is green color.

2. Screen top line display RSSI mark, the display area under top row will display, show All Call and frequency (in digital mode only).
3. After All Call is terminated, radio returns to the screen before receiving the All Call.

Transmit A Radio Call
You can choose a channel, user ID or group call with following methods.
- Channel Knob
- Pre-programmed key
- Contacts
- Manual dialing (through Contacts), only for single call, and use keyboard to dialing.

Using Channel To Make A Call
Group Call
The radio should be under the group then can have the group call.
1. Rotate the channel knob, use the active call Group name or ID to select the channel.
2. Hold the radio in a vertical position and keep 1 to 2 inches (2.5 to 5.0cm) away the mouth.
3. Press * key to make a call and the LED indicator light shows red. The screen displays the call group name or ID.
4. Release * key to receive, when the receive message, LED light is green color. The screen displays the call group name or ID.
5. Radio returns the screen before receiving the call.
Single Call
1. Rotate the channel knob, use the active call Group name or ID to select the channel.
2. Hold the Walkie-talkie in a vertical position and keep 1 to 2 inches (2.5 to 5.0cm) away from the mouth.
3. Press [PTT] key to make a call and the LED indicator light shows red. The screen displays RSSI mark, display area under top row will display, single call or Frequency (in digital mode only).
4. Release [PTT] key to receive, when the target walkie-talkie replies, LED light is green color.

All Call
must be programmed with this function, so that you can send information to every user who are under the channel.
1. Rotate the channel knob, use the active call Group name or ID to select the channel.
2. Hold the Walkie-talkie in a vertical position and keep 1 to 2 inches (2.5 to 5.0cm) away from the mouth.
3. Press [PTT] key to make a call and the LED indicator light shows red. The screen displays all call and frequency (only in the digital mode). The user of channel can not reply all call.

Menu Function
Character Input
User has to press a button several times for getting some characters. The following table shows how many times needed to press a button to get the required character.

<table>
<thead>
<tr>
<th>Key</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
<th>13</th>
<th>14</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>!</td>
<td>&quot;</td>
<td>#</td>
<td>$</td>
<td>%</td>
<td>&amp;</td>
<td>(</td>
<td>)</td>
<td>+</td>
<td>.</td>
<td>/</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>A</td>
<td>B</td>
<td>c</td>
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<td></td>
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<tr>
<td>3</td>
<td>D</td>
<td>E</td>
<td>F</td>
<td>d</td>
<td>e</td>
<td>f</td>
<td></td>
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<tr>
<td>4</td>
<td>G</td>
<td>H</td>
<td>I</td>
<td>g</td>
<td>h</td>
<td>i</td>
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<tr>
<td>5</td>
<td>J</td>
<td>K</td>
<td>L</td>
<td>j</td>
<td>k</td>
<td>l</td>
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<td>6</td>
<td>M</td>
<td>N</td>
<td>O</td>
<td>m</td>
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<tr>
<td>7</td>
<td>P</td>
<td>Q</td>
<td>R</td>
<td>P</td>
<td>Q</td>
<td>r</td>
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<td>8</td>
<td>T</td>
<td>U</td>
<td>V</td>
<td>t</td>
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<tr>
<td>9</td>
<td>W</td>
<td>X</td>
<td>Y</td>
<td>Z</td>
<td>w</td>
<td>x</td>
<td>y</td>
<td>z</td>
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</tbody>
</table>

How to Use Menu
1. Press [ ] enter menu mode, press up[ or ] key to access menu function.
2. Press [ ] key to selection function or enter next sub-menu.
1. Press [MENU] key back to previous menu.
2. Press [PTT] key back to main screen.

Contacts Setting
Contacts is a "Phone Book" for hand held two way radio. Each entry corresponds to name or ID used to calling. In addition, each item, according to the difference content setting, relate to three types of call: Group Call, Private Call, All Call. Your radio support phone book.
The Contact's entries display as below,
- Contacts
- Manual Dial

Edit Contacts
1. Press [MENU] key to enter menu.
2. Press [△ or ▽] key enter contacts, then press [MENU] to select.
3. Press [△ or ▽] key to select the function you want to edit, press [MENU] enter edit contact and press [MENU] to confirm.

Transmit A Single Call By Contacts
1. Press [MENU] key to enter menu.
2. Press [△ or ▽] key enter contacts, then press [MENU] to select, entries are in alphabetical order.

4. Hold the Walkie-talkie in a vertical position and keep 1 to 2 inches (2.5 to 5.0cm) away the mouth.
5. Press [PTT] key to make a call and the LED indicator light shows red. The first line will show the group name, second line will show income call ID, third line will show income area information, the fourth line will show frequency (in digital mode only).
6. Release [PTT] key to receive message, when your partner reply, LED light is green color and will see transmitter's ID on screen.

Calling Log Function
Your radio can record all the recent dialed, received, and not answered call. Use the calling log function view and manage the recent calls.

View The Latest Calling Number
Menu have received call, dialed call and not answered call.
1. Press [MENU] to enter menu.
2. Press [△ or ▽] to dialed record, then press [MENU] to select.
3. Press [△ or ▽] to the list you want, press [MENU] to select.
4. The screen will display recent entry on the top of list.
5. Press [△ or ▽] key to view the list.

Missed Call's Screen
Whatever missed call, will shows have missed answer call, you can select check it right now or check it latter.
1. Screen shows missed answer call, missed answer number and check it.
2. Press \[ MENU \] key to check missed answer call, will see not answered list from screen, press \[ MENU \] key to delete it or press \[ A \] or \[ V \] to check it latter, press \[ MENU \] key to select it.

Deleting the Call of Calling List

1. Press \[ MENU \] key to enter menu.
2. Press \[ A \] or \[ V \] to dialed record, then press \[ MENU \] to select.
3. Press \[ A \] or \[ V \] to the list you want, press \[ MENU \] to select.
4. Press \[ A \] or \[ V \] to the want you want or ID, press \[ MENU \] to select.
5. Press \[ A \] or \[ V \] to the one you want to delete, press \[ MENU \] to select delete it or not.

When you choose calling list but do not have entry, screen will shows blank list, if the keyboard sound is open, will sounded a tone.

Call Prompt Operation

Call instruction makes you can suggest a specific radio users in the possible time to call you back. This feature applies only to the user alias ID, and can be used through the menu by address book or manual dialing.

Receiving and Confirming the Call Reminder

When your receive a call reminder, screen shows call reminder, will alternate display of 's alias or ID.
1. User will hear a repeat tone.
2. Press [PTT] key to exit calling reminder.

Starting a Call Reminder by Communication List

1. Press \[ MENU \] key to enter menu.
2. Press \[ A \] or \[ V \] to contacts, then press \[ MENU \] to select.
3. Press \[ A \] or \[ V \] to the manual dialing, press \[ MENU \] to select will see flashing light, then input the ID you want to call, press \[ MENU \] key.
4. Press \[ A \] or \[ V \] to the calling reminder, screen shows call reminder <Group name or ID>, press \[ MENU \] indicate finish sending call reminder.
5. When transmit call reminder, LED indicator light shows red.
6. When receiving the call prompt confirmation, will sounds a tone and the call alert is displayed.

Message Function

Your radio can receive data, such as from another radio sent text messages, message of a maximum length of 100 characters.

Editing and Sending Message

1. Press \[ MENU \] key to enter menu.
2. Press \[ A \] or \[ V \] to Message, then press \[ MENU \] to select.
3. Press \[ A \] or \[ V \] to write message, press \[ MENU \] to select.
4. A flashing cursor appears, using the keyboard to write messages, press \[ A \] key to moveto the left one, press \[ W \] button to the right one, when editing area have content, press the \[ EXIT \] key to delete any useless character, otherwise when editing area without content to return previous interface.
5. After editing the text, press [FINISH] to choose to send or save message.
6. When editing, user can choose by pressing the [FINISH] to clear all edited message, quickly back to previous interface.
8. The screen shows message, confirm sending message.
9. If the messages sent successfully, issued a prompt sound, and the screen displays text message has been sent. Or if the message was not sent, issued a high tone hint sound, and screen displays text message sent failure. If message sent failure, radio will return resend interface.

Sending Pre-programmed Text
Two way radio support maximum 50 programming of pre-programmed text messages by the agent. When a predefined text message, you can edit every message before you can send each message.

Using Menu Function
1. Press [MENU] key to enter menu.
5. A flashing cursor appears, using the keyboard to input messages, press [A] key to move to the left one, press [B] button to the right one, when editing area have content, press the [EXIT] key to delete any useless character, otherwise when editing area without content to return previous interface.
6. After editing the text, press [FINISH] to choose to send or save.
7. When editing, user can choose by pressing the [EXIT] to clear all edited message, quickly back to previous interface.
11. The screen shows message, confirm sending message.
12. If the messages sent successfully, issued a prompt sound, and the screen displays text message has been sent. Or if the message was not sent, issued a high tone hint sound, and screen displays text message sent failure. If message sent failure, radio will return resend interface.

One-Touch Calling Key Sending Pre-programmed Messages
1. Press pre-programmed One-Touch key to send predefined name or ID a pre-programmed message. present message to a predefined alias or ID.
2. The screen shows message, confirm sending message.
3. If the messages sent successfully, issued a prompt sound and the screen displays text message has been sent. Or if can not send message, screen displays text message sent failure.
Write Message
Choose write to write your message before sending it.
1. Press [Editor] key to edit, then press [Menu] key to select.
2. A flashing cursor appears, using the keyboard to input messages, press [Editor] key to move to the left one, press [ ] button to the right one, when editing area have content, press the [ ] key to delete any useless character, otherwise when editing area without content to return previous interface.
3. After editing the text, press [Menu] to choose to send or save.
4. When editing, user can choose by pressing the [Menu] to clear all edited message, quickly back to previous interface.
5. Choose send message then press [Editor] or [ ] key to the alias name or ID, and then press [Menu] key to select. Or Press [Editor] or [ ] to manual dialing, and then press [Menu] button, enter your user ID and Press [Menu] to send.
6. The screen shows message, <user or alias name or ID>, confirm sending message.
7. If the messages sent successfully, issued a prompt sound, and the screen displays text message has been sent. Or if the message was not sent, issued a high tone hint sound, and screen displays text message sent failure.

Managing the Sent Items
Once a message has sent to another radio, it will be saved in the “Sent Items”. After message sent, sending message has always been to “Sent Items” at the top of the list. The sent items folder can store up to 50 recently send text messages. After the folder is full, the next send text messages will automatically replace the earlier messages in this folder. Note: press [ ] can return to the previous interface at any time.

View Sent Items Text
Using menu function,
1. Press [Menu] to menu mode.

Sending Sent Message
When view the Sent Items, you can choose the following,
- Resend
- Forward
- Delete
1. When view the message, press [Menu] again.
3. The screen showing send to: <User / Call group name or ID>, confirm the message is ready sending to same goal radio.
4. If the message send success, the radio will appear the voice, and screen showing message sent out. Or if the message send failure, the radio will appear the high voice, and screen showing message sent failure. The screen will return the resend one, press [Menu] to resend the message to the same User / Call group name or ID.
- Select edit, before sending edit the required message.
- Select delete, delete required message.
Receive Message
When your radio on receiving message, the screen in left will show message icon for sending name or ID.
When receive message, you can choose the following,
• View
• Delete
Note: if you press the [PTT] key while the radio is displaying the prompt screen, the radio exits the Message prompt screen.

View message
1. Press [ or ] to view, press [ ] to selection.
2. Open the required message in the receiver box.
3. Press [ ] to return the In Box, press [ ] to reply, forward or delete message,
   Press [ or ] to view, or delete screen.
   • Select view the screen before return received message.
   • Select delete, delete received message.

Administrate Received Message
Using the inbox to administrate, the receiver box will store 50 messages.
Radio support the following function,
• Reply
• Forward
• Delete

According to the recently received message to store message which on the receive box.
Attention: anytime Press [ ] can be return the Previous screen.

View the Message in the In Box
1. Press [ ] to menu mode.
2. Press [ or ] to message, press [ ] to selection.
3. Press [ or ] to InBox, press [ ] to selection.
4. Press [ or ] to check message.
5. Press [ ] select the current message to edit, then press [ ] again to reply,
   delete or forward message.

Reply the InBox message
Using menu function,
1. Press [ ] to menu mode.
2. Press [ or ] to message, press [ ] to selection.
3. Press [ or ] to InBox, press [ ] to selection.
4. Press [ or ] to required message, press [ ] to selection.
5. Re-Press [ ] to sub-menu.
6. Press [ or ] to reply, press [ ] to selection.
7. Screen showing message: confirm on sending message
8. If the message sending succeed, radio appear the voice, and the screen showing message been sent.
   Or if the message can not send, screen showing sent failure, if message send failure, radio will return the re-send select.
Delete Message On the Receiver Box

Using menu function,
1. Press [Menu] to menu mode.
3. Press [△ or ▽] to InBox, Press [Menu] to select.
7. Screen return to InBox.

Encryption

If use this function, it will be good for preventing other user in the channel eaves drop which utilize software encryption but can not allow.

Some of the transmit sign and user recognition have not done encryption. Even though the receiving have not required encryption, your radio must turn on the encryption on the channel, then can sending the encryption.

Basic Encryption

Radio could allocate any of the encryption. If it need decode encryption for calling out or data transfer, you must deal the same encryption code with the one on programming and transmitting radio.

If your radio receives encrypted calls with different encryption keys or different key values and key ID, you will hear the messy sound of transmission.

Confidentiality

You can activate or kill any radio. For example, maybe you want to stop one robbed radio, prevent the thief from using it, you can enable it when you get it back.

Attention: when use the radio kill or activate only for the one have these function.

Radio Kill

Using menu function,
1. Press [Menu] to menu mode.
2. Press [△ or ▽] to contacts, press [Menu] to select, item according the alphabetical order to rank.
5. Screen showing radio remote kill and LED indicator light is red.

Radio Wake Up

Using menu function,
1. Press [Menu] to menu mode.
2. Press [△ or ▽] to contacts, press [Menu] to select, item according the alphabetical order to rank.
5. Screen showing radio wakeup and LED indicator light is red.
Radio ID
Can be set up 32 ID.
1. Press [MENU] to menu mode.
5. Edit ID code or ID name, press [△ or ▽] to move left right character, press [EXIT] to delete character.

Radio
1. Press [MENU] to menu mode.
3. Press [△ or ▽] to select radio frequency or channel, or input the frequency or channel directly with keypad.
4. Press [SCAN] to scan, press [or] to select up or down scan.

Save Radio
1. Press [MENU] to menu mode.

4. Press [△ or ▽] to choice required memory channel, press [MEM] to confirm.
5. Long press [MEM] to change to channel mode.

Start and Stop Scan
Before using scan, you need decide that any condition should be detective radio sign and how to continue scan, with the following three mode,
1. (TO: time operation mode): When the radio detects a signal it will stop scanning and will pause for 5 seconds before scanning again even if the signal is still present.
2. (CO:carrier operation mode): When the radio detects a signal it will stop scanning and will stay on the same frequency and will resume scanning after 5 seconds when the signal ends.
3. (SE: search operation mode): When the radio detects a signal, it will stop on that frequency and will not move on, even if the signal ends..

Dual Standby
Short press [MEM] key to open or close dual standby, when open dual standby, the screen will shows two bands, close it will shows single band and time.

A / B Band Switch
Short press [MEM] key to switch A / B band.
Analog/Digital Mode Switch
Long Press [EXIT] key to switch Analog/Digital mode under frequency mode.

Version
Showing Radio Version
1. Press [MEND] to menu mode.
3. Screen will appear the current fixed version.

Open Password
Through program software to set up password, password for 6 significant digits.

Initialization
If the radio set up open password, it will not operate this function.
2. Press [A] or [D] and [MEND] to select.

First. Main Set

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Squelch Level
The higher level, the deeper squelch.
1. Press [MENU] to menu mode.
2. Press [▲] or [▼] to whole set up, press [MENU] to selection.
3. Press [▲] or [▼] to squelch level, press [MENU] to selection.
4. Press [▲] or [▼] to choose 0/1/2...9, press [MENU] to confirm.
5. The function is available in analog channel.

Save
The greater the proportion of power saving, the more standby power.
1. Press [MENU] to menu mode.
2. Press [▲] or [▼] to Main Set., press [MENU] to selection.
3. Press [▲] or [▼] to battery save, press [MENU] to selection.
4. Press [▲] or [▼] to choose battery save proportion or close, press [MENU] to confirm.

Voice
Open voice, when you press the keypad will voice prompt.
1. Press [MENU] to menu mode.
2. Press [▲] or [▼] to Main Set, press [MENU] to selection.
3. Press [▲] or [▼] to voice, press [MENU] to selection.
4. Press [▲] or [▼] to choose open or close, press [MENU] to selection.

Vox Delay
1. Press [MENU] to menu mode.
2. Press [▲] or [▼] to whole setting, press [MENU] to selection.
3. Press [▲] or [▼] to VoxDelay, press [MENU] to selection.
4. Press [▲] or [▼] to choose delay time and press [MENU] to confirm.

Hang Up
(available in Digital channel mode only)
a: Digital channel contact selection.
b: Off: When launch should be launch with set up connector.
c: 1S~10S: If in the time range receiver calling by current channel, It should be transmit by the receiver connector. Over the set up time have not transmitted or on receiving, It should be set up connector.
1. Press [MENU] to menu mode.
2. Press [▲] or [▼] to Main Set, press [MENU] to selection.
3. Press [▲] or [▼] to hang up calling, press [MENU] to selection.
4. Press [▲] or [▼] to choose time or off, press [MENU] to confirm.

Tx. Channel
a: EDIT: Transmit by current working channel.
b: BUSY 1S~10S: Transmit by receive the signal’s channel, over the setting time will be transmit by working channel.
1. Press [MENU] to menu mode.
2. Press [▲] or [▼] to Main Set, press [MENU] to selection.
3. Press [▲] or [▼] to Tx.channel, press [MENU] to selection.

Key Define
a: Key setting by long & short press function
b: Short press [MND] to change side key 1, side key 2 for short & long selection.
1. Press [MND] to menu mode.

BackLight
1. Press [MND] to menu mode.
4. Screen shows Cont, 1S/2S/3S etc, then press [MND] to be Cont, the background will not close. If option 1S/2S/3S etc then the screen will be close in the corresponding time without any operation.

Beep
If you need, you can activate and close it.
1. Press [MND] to menu mode.
4. Press [A] or [V] to select off or on, press [MND] to confirm.

KeyLock
You can lock the keypad so that prevent the keypad input, contained manual or auto, the self-motion would be lock without any operation.
1. Press [MND] to menu mode.
5. Press [MND] to choose lock keypad or unlock.

CH-Mode
a: FREQ: Frequency+ channel number.
b: NAME: Channel name.
c: CH: Channel mode.
Press [MND] to menu mode.

Scan Mode
a: TO: Time operation mode.
b: CO: Carrier operation mode.
c: SE: Search operation mode.
1. Press [MND] to menu mode.

Save Ch
a: The parameters set in the current band are stored in the channel you want to save.
b: Input the digital directly to choose the channel.
c: CH before the channel no. indicate that current channels have data.
1. Press [MENU] to menu mode.
4. Press [Cursor Up or Cursor Down] to choose or input required channel number by keypad, press [MENU] to confirm.

Delete Ch
a: CH before the channel no. indicate that current channels have data.
b: Input the digital directly to choose the channel.
1. Press [MENU] to menu mode.
2. Press [Cursor Up or Cursor Down] to Main Set, press [MENU] to selection

Roger
Start this function will be appeared voice prompts after finishing transmit.
The function is effective in analog channel mode.

1. Press [MENU] to menu mode.
4. Press [Cursor Up or Cursor Down] to choose off or on, press [MENU] to confirm.

Time
1. Press [MENU] to menu mode.
4. Press [Cursor Up or Cursor Down] to move place, press [Cursor Up or Cursor Down] to choose and change.
5. Press [MENU] to confirm.

Voice Tail
a: OFF means do not decode sound tail code, ON mean decode sound tail code. We suggest ON
b: Programming software [Setting] has option tail code, option 54.7Hz.
c: This function is effective in analog channel mode only.
1. Press [MENU] to menu mode.
4. Press [Cursor Up or Cursor Down] to choose off or on, press [MENU] to confirm.
## Two. Channel Setting (Band A Set and Band B Set)

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### Zone Select
1. Press [MENU] to enter the menu.
2. Press [△ or ▼] key to channel setting, then press [MENU] to select.
3. Press [△ or ▼] key to zone selection, then press [MENU] to select.
4. Press [△ or ▼] key to select, then press [MENU] to confirm.

### Frequency Step Setting
1. Press [MENU] to enter the menu.
2. Press [△ or ▼] key to channel setting, then press [MENU] to select.
3. Press [△ or ▼] key to frequency step setting, then press [MENU] to select.
4. Press [△ or ▼] key to select, then press [MENU] to confirm.
Transmit Power
You can set radio transmit power at HIGH, MIDDLE OR LOW.
According to pre-programmed HIGH, MIDDLE or LOW power select key, change HIGH,
MIDDLE or LOW power, using menu function,
1. Press [MENU] to enter the menu.
2. Press [△] or [ ▽] key to channel setting, then press [MENU] to select.
3. Press [△] or [ ▽] key to frequency step setting, then press [MENU] to select.
4. Press [△] or [ ▽] key to select, then press [MENU] to confirm.

VOX Switch
This function allows you transmit a hands-free voice call at a pre-programmed radio.
Whenever the voice is detected by the microphone which is on the VOX function part,
radio will automatically transmit signals during the pre-programmed time.
1. Press [MENU] to enter the menu.
2. Press [△] or [ ▽] key to channel setting, then press [MENU] to select.
3. Press [△] or [ ▽] key to VOX Switch, then press [MENU] to select.
4. Press [△] or [ ▽] key to select, then press [MENU] to confirm.

VOX Level
This function allows you transmit a hands-free voice call at a pre-programmed radio.
Whenever the voice is detected by the microphone which is on the VOX function part,
radio will automatically transmit signals during the pre-programmed time.
1. Press [MENU] to enter the menu.
2. Press [△] or [ ▽] to channel setting, then press [MENU] to select.
3. Press [△] or [ ▽] key to VOX Level, then press [MENU] to select.
4. Press [△] or [ ▽] key to select, then press [MENU] to confirm.

Wide / Narrow Band Select
1. Press [MENU] to enter the menu.
2. Press [△] or [ ▽] to channel setting, then press [MENU] to select.
3. Press [△] or [ ▽] key to Wide / Narrow Band Select, then press [MENU] to select.
4. Press [△] or [ ▽] key to select, then press [MENU] to confirm.
5. This function can be only available under analog mode.

Time-out Timer (TOT)
Select 15S/30S....600S means transmitting time is 15S/30S....600S... If exceed this
time, radio will stop transmitting automatically. Select OFF means set non-limit
transmitting time, until PTT key are released and stop transmitting.
1. Press [MENU] to enter the menu.
2. Press [△] or [ ▽] to channel setting, then press [MENU] to select.
3. Press [△] or [ ▽] key to Time-out Timer setting, then press [MENU] to select.
4. Press [△] or [ ▽] key to select, then press [MENU] to confirm.

CTCSS/DCS
A: Only analog mode can set CTCSS/DCS.
B: It is both available that set receiving and transmitting at the same time.
C: Press [MENU] key to change CTCSS, DCS positive direction, DCS negative direction,
close CTCSS/DCS.
1. Press [MENU] to enter the menu.
2. Press [△] or [ ▽] to channel setting, then press [MENU] to select.
3. Press [△] or [ ▽] key to CTCSS / DCS , then press [MENU] to select.
4. Press [ ] to change CTCSS / DCS frequency, then press [ ] or [ ] to select CTCSS/DCS frequency.
5. Press [ ] to confirm.

**R-CDC**
a. Only analog mode can set CTCSS/DCS.
b. Only set receiving is available.
c. Press [ ] key to change CTCSS, DCS positive direction, DCS negative direction, close CTCSS/DCS.
1. Press [ ] to enter the menu.
2. Press [ ] or [ ] to channel setting, then press [ ] to select.
3. Press [ ] or [ ] key to R-CDC, then press [ ] to select.
4. Press [ ] to change CTCSS / DCS frequency, then press [ ] or [ ] to select CTCSS/DCS frequency.
5. Press [ ] to confirm.

**T-CDC**
a. Only analog mode can set CTCSS/DCS.
b. Only set transmitting is available.
c. Press [ ] key to change CTCSS, DCS positive direction, DCS negative direction, close CTCSS/DCS.
1. Press [ ] to enter the menu.
2. Press [ ] or [ ] to channel setting, then press [ ] to select.
3. Press [ ] or [ ] key to T-CDC, then press [ ] to select.
4. Press [ ] to change CTCSS/DCS frequency, then press [ ] or [ ] to select CTCSS/DCS frequency.
5. Press [ ] to confirm.

**Channel Name Edit**
1. Press [ ] to enter the menu.
2. Press [ ] or [ ] to channel setting, then press [ ] to select.
3. Press [ ] or [ ] key to Channel Name Edit, then press [ ] to select.
4. Press number keys to input, and press [ ] or [ ] key to move position.
5. Press [ ] to confirm.
6. This function is only available under channel mode.

**Busy Channel Lockout (BCL)**
Set BCL under analog mode. OFF: not forbid to transmit. Wave: if carry wave then forbid to transmit. Code: if CTCSS/DCS codes are match, then forbid to transmit.
Code: If CTCSS/DCS codes are not match, then forbid to transmit.
Set BCL under digital mode. Forbid: transmit is not allowed.
Impolite: transmit impolite(transmit at any time)
Polite CC: If color codes are same, then forbid to transmit.
Polite ALL: if carry wave then forbid to transmit.
1. Press [ ] to enter the menu.
2. Press [ ] or [ ] to channel setting, then press [ ] to select.
3. Press [ ] or [ ] key to Busy Lock, then press [ ] to select.
4. Press [ ] or [ ] key to select, then press [ ] to confirm.

**Frequency Difference Direction**
1. Press [ ] to enter the menu.
2. Press [ ] or [ ] to channel setting, then press [ ] to select.
3. Press [ ] or [ ] key to Frequency Difference Direction, then press [ ] to select.
4. Press [ 或 ] key to select, then press [ ] to confirm.
5. This function is only available under frequency mode.

**Frequency Difference**
1. Press [ ] to enter the menu.
2. Press [ 或 ] to channel setting, then press [ ] to select.
3. Press [ 或 ] key to Frequency Difference, then press [ ] to select.
4. Press [ 或 ] key to select, then press [ ] to confirm.

**Color Code**
a: Only digital mode can set color code, or it is not allowed to use radio.
b: Only same color code to communicate.
1. Press [ ] to enter the menu.
2. Press [ 或 ] to channel setting, then press [ ] to select.
3. Press [ 或 ] key to Color Code, then press [ ] to select.
4. Press [ 或 ] to select, then press [ ] to confirm.

**Encryption Type**
a: Only digital mode can set encryption.
b: It has normal encryption and enhanced encryption 2 types.
1. Press [ ] to enter the menu.
2. Press [ 或 ] to channel setting, then press [ ] to select.
3. Press [ 或 ] key to Encryption Type, then press [ ] to select.
4. Press [ 或 ] to select, then press [ ] to confirm.

**Encryption Numbers**
a: Encryption can be only set under digital channel
b: Communication is available only the encryption type and encryption numbers are same.
1. Press [ ] to enter the menu.
2. Press [ 或 ] to channel setting, then press [ ] to select.
3. Press [ 或 ] key to Encryption Numbers, then press [ ] to select.
4. Press [ 或 ] to select, then press [ ] to confirm.

**Working Modes**
There are 3 modes: Direct Mode, Repeater Mode, Real Double Time Slots Mode
a: Direct Mode:
b: Repeater Mode:
c: Real Double Time Slots Mode:
1. Press [ ] to enter the menu.
2. Press [ 或 ] to channel setting, then press [ ] to select.
3. Press [ 或 ] key to Encryption Numbers, then press [ ] to select.
4. Press [ 或 ] to select, then press [ ] to confirm.
5. This function can be only edited under digital channel.

**Time Slots Selection**
If real double time slots are activated, radio must be set in a same time slot then communication can be available.
1. Press [ ] to enter the menu.
2. Press [ 或 ] to channel setting, then press [ ] to select.
3. Press [ 或 ] key to Time Slots Selection, then press [ ] to select.
4. Press [▲] or [▼] to select, then press [MEM] to confirm.
5. This function can be only edited under digital channel.

**Cancel Receiving Group Call List**

a: When it is on, it means communication is available when receiving any contact.
b: When it is OFF, it means communication is available only when the contacts that received must be in receiving group list first.
1. Press [MEM] to enter the menu.
2. Press [▲] or [▼] to channel setting, then press [MEM] to select.
3. Press [▲] or [▼] key to Cancel Receiving Group Call List, then press [MEM] to select.
4. Press [▲] or [▼] to select, then press [MEM] to confirm.
5. This function can be only edited under digital channel.

**Radio ID Selection**

Change to select the ready radio ID
1. Press [MEM] to enter the menu.
2. Press [▲] or [▼] key to channel setting, then press [MEM] to select.
3. Press [▲] or [▼] key to radio ID selection, then press [MEM] to select.
4. Press [▲] or [▼] key to select, then press [MEM] to confirm.
5. This function can be only programmed under digital channels.

**Contacts Selection**

a: You can press upper and down keys to select contacts or input manually.
b: If the contacts that you input is not exist, radio will automatically find adjacent valid contacts.
c: It can be set from [MEM]
C.1: Save: Save all the selected transmitted contacts.
C.2: Local: Change the contacts from address list, and reset the required contacts.
C.3: Priority: Change the priority contacts, and reset the required contacts.
C.4: OFF: Close transmitted contacts, transmitting is not allowed.
1. Press [MEM] to enter the menu.
2. Press [▲] or [▼] key to channel setting, then press [MEM] to select.
3. Press [▲] or [▼] key to contacts selection, then press [MEM] to select.
4. Press [▲] or [▼] key to select, then press [MEM] to confirm.
5. This function can be only programmed under digital channels.

**Receiving Groups List**

a: You can press up and down keys to select contacts or input manually.
b: If the contacts that you input is not exist, radio will automatically find adjacent valid contacts.
c: It can be set from [MEM]
C.1: Add(Priority): Add priority contacts
C.2: Add(Local): Add contacts on the address list.
C.3: Delete: Delete the contacts
C.4: Detail: View the contacts.
1. Press [MEM] to enter the menu.
2. Press [▲] or [▼] key to channel setting, then press [MEM] to select.
3. Press [▲] or [▼] key to receiving group lists, then press [MEM] to select.
4. Press [▲] or [▼] key, and press [▲] or [▼] key to select, then press [MEM] to confirm.
5. This function can be only programmed under digital channels.
GPS:

GPS positioning

1. The walkie-talkie can check its own positioning
2. You can view the other party's positioning,
3. You can set automatic transmission of location information to the other party, or you can set manual transmission
4. You can set to receive the location information transmitted by the other party, or reject it Pick up. There are three items of GPS positioning information on the walkie-talkie: latitude, longitude and altitude (N, E, ALT), how to set and operate GPS, refer to the software and manual (available on the website)

Battery

The battery is 3200MAH. Even if the power is different for each, there will be a slight difference, but each of the HD1 batteries is selected by capacity, and the high-capacity ones are selected for use.

IP67 waterproof

IP67 meets the standard. We do waterproof and airtight testing for each of them. The small hole behind the walkie-talkie is the airtight testing hole.
**Leading-in and Writing the contacts from the address list**
1. Open programming software
2. Leading-in contacts file (format: *.CVS).
3. Writing contacts

**Reading and Leading-out the contacts from the address list**
1. Open programming software
2. Reading contacts
3. Leading-out contacts

---

### Troubleshooting

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Try This</th>
</tr>
</thead>
<tbody>
<tr>
<td>No power</td>
<td>• Battery power may have run out, please update battery or recharge it.</td>
</tr>
<tr>
<td></td>
<td>• Battery may not be properly installed, please take it off and re-install.</td>
</tr>
<tr>
<td>Battery lasts a short time after</td>
<td>• The battery life is over, please replace new battery.</td>
</tr>
<tr>
<td>charge</td>
<td></td>
</tr>
<tr>
<td>Can not talk to other members of</td>
<td>• Verify transmitting is within effective operating range.</td>
</tr>
<tr>
<td>your group</td>
<td>• Verify channel, frequency and code settings are correct.</td>
</tr>
<tr>
<td>Hearing other conversation on a</td>
<td>• Please change code settings, including all two way radio settings of your group.</td>
</tr>
<tr>
<td>channel (not group members*)</td>
<td></td>
</tr>
<tr>
<td>Radio keep beeping</td>
<td>• Radio channel is empty. Please turn to other channels or programming channel first.</td>
</tr>
<tr>
<td>CTCSS/DCS</td>
<td>CTCSS Standard Frequency Table</td>
</tr>
<tr>
<td>-----------</td>
<td>--------------------------------</td>
</tr>
<tr>
<td>1 - 62.5</td>
<td>2 - 100.0</td>
</tr>
<tr>
<td>2 - 67.0</td>
<td>15 - 103.5</td>
</tr>
<tr>
<td>3 - 69.3</td>
<td>16 - 107.2</td>
</tr>
<tr>
<td>4 - 71.9</td>
<td>17 - 110.9</td>
</tr>
<tr>
<td>5 - 74.4</td>
<td>18 - 114.8</td>
</tr>
<tr>
<td>6 - 77.0</td>
<td>19 - 118.8</td>
</tr>
<tr>
<td>7 - 79.7</td>
<td>20 - 123.0</td>
</tr>
<tr>
<td>8 - 82.5</td>
<td>21 - 127.3</td>
</tr>
<tr>
<td>9 - 85.4</td>
<td>22 - 131.8</td>
</tr>
<tr>
<td>10 - 88.5</td>
<td>23 - 136.5</td>
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<tr>
<td>11 - 91.5</td>
<td>24 - 141.3</td>
</tr>
<tr>
<td>12 - 94.8</td>
<td>25 - 146.2</td>
</tr>
<tr>
<td>13 - 97.4</td>
<td>26 - 151.4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CTCSS Standard Frequency Table</th>
</tr>
</thead>
<tbody>
<tr>
<td>023</td>
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<td>025</td>
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<td>026</td>
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<td>054</td>
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<tr>
<td>065</td>
</tr>
<tr>
<td>071</td>
</tr>
</tbody>
</table>
Safety Warning

This device is designed to comply with the following national and international standards and guidelines regarding exposure of human beings to radio frequency electromagnetic energy:

- American National Standards Institute (ANSI)/Institute of Electrical & Electronic Engineers (IEEE) C95. 1-2005
- Institute of Electrical and Electronic Engineers (IEEE) C95.3-2002
- International Electrotechnical Commission IEC62209-2:2010

Test position and configuration Head SAR was performed with the device configured in the positions according to IEEE1528, and face up SAR was performed with the device 25mm from the phantom, Body SAR was performed with the belt clip on the device 0 mm from the phantom. Body SAR was also performed with the headset attached and without.

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

1) This device may not cause interference, and
2) This device must accept any interference that may cause undesired operation of the device.

Compliance with RF Exposure Standards

Your Allphone radio is designed to comply with the following national and international standards and guidelines regarding exposure of human beings to radio frequency electromagnetic energy:

- American National Standards Institute (ANSI)/Institute of Electrical & Electronic Engineers (IEEE) C95. 1.
- International Commission on Non-Ionizing Radiation Protection (ICNIRP). e.
- International Electrotechnical Commission IEC62209-2:2010

Test position and configuration Head SAR was performed with the device configured in the positions according to IEEE1528, and face up SAR was performed with the device 25mm from the phantom, Body SAR was performed with the belt clip on the device 0 mm from the phantom. Body SAR was also performed with the headset attached and without.
Please refer to the following websites and Guidance documents for more information on what RF energy exposure is and how to control your exposure to assure compliance with established RF exposure limits: RSS-102, Safety Code 6 and www.who.int/en/.

CAUTION

This product is compliance to FCC RF Exposure requirements and refers to FCC website https://apps.fcc.gov/oetcf/eas/reports/GenericSearch.cfm search for FCC ID: 2AAR8AILUNCEHD1 to gain further information include SAR Values.

IC Radiation Exposure Statement

This EUT is compliance with SAR for controlled exposure limits in IC RSS-102 and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528 and IEC 62209, this equipment should be installed and operated with minimum distance 1 cm between the radiator and your body. This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

Cet appareil est conforme aux limites d’exposition DAS contrôlées pour de la norme CNR-102 d'Industrie Canada et a été testée en conformité avec les méthodes de mesure et procédures spécifiées dans IEEE 1528 et IEC 62209.

Cet appareil doit être installé et utilisé avec une distance minimale de 1 cm entre l’émetteur et votre corps. Cet appareil et sa ou ses antennes ne doivent pas être co-localisés ou fonctionner en conjonction avec tout autre antenne ou transmetteur.

WARNING

SAFETY INFORMATION

Your wireless hand-held portable transceiver contains a low power transmitter. This product sends out radio frequency (RF) signals when the Push-to-Talk (PTT) button is pressed. 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.

To control your exposure and ensure compliance with the general population or uncontrolled environment exposure limits, transmit no more than 50% of the time. The radio generates measurable RF energy exposure only when transmitting.

WARNING

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment and should not be made. To comply with FCC requirements, transmitter adjustments should be made only by or under the supervision of a person certified as technically qualified to perform transmitter maintenance and repairs in the private land mobile and fixed services as certified by an organization representative of the user of those services. Replacement of any transmitter component (crystal, semiconductor, etc) not authorized by the FCC equipment authorization for this radio could violate FCC rules.
Note: Use of this radio outside the country where it was intended to be distributed is subject to government regulations and may be prohibited.

**WARNING**

Body-Worn Operation
To maintain compliance with FCC’s RF exposure guidelines, for body-worn operation, this radio has been tested and meets the FCC RF exposure guidelines when used with Allance Radio Corp. accessories supplied or designated for this product. Use of other accessories may not ensure compliance with FCC RF exposure guidelines.
If you wear the radio on your body when transmitting always use Allance supplied or approved belt clip, holster, case, or body harness for this product.
If you do not use any accessories supplied or approved by Allance, ensure the radio and its antenna are at least 1 inch (2.5cm) from your body when transmitting.
Use the Analog Transceiver in the environment with the temperature between -10°C and 40°C, otherwise, it may damage your Analog Transceiver. It can be operating under 2000m.

**WARNING**

Antennas
1) The antenna in the packing is unique, please do not optional change.
2) For safe operation, the antenna for the product shall be least 25mm away from your face, when speaking.

1) DO NOT use any portable radio that has a damaged antenna. If a damaged antenna comes into contact with your skin, a minor burn can result.

**WARNING**

Batteries
All batteries can cause property damage and/or bodily injury such as burns if a conductive material touches exposed terminals. The conductive material may complete an electrical circuit (short circuit) and become hot.
• Exercise care when removing the rechargeable batteries. Do not use sharp or conductive tools to remove these batteries.
• Exercise care in handling any charged battery, particularly when placing it inside a pocket, purse or other container with metal objects.
• Do not discard your battery in a fire.
• Do not replace the battery in any area labeled “Hazardous Atmosphere”. Any sparks created in a potentially explosive atmosphere can cause explosion or fire.
• Do not disassemble, crush, puncture, shred or otherwise attempt to change the form of your battery.
• Do not dry a wet battery or damp battery with an appliance or heat source, such as a hair dryer or microwave oven.
• If the radio battery contact area has been submerged in water, dry and clean the battery contacts before attaching the battery to the radio.
CAUTION

Battery Charger Safety Instructions:
This document contains important safety and operating instructions. Read these instructions carefully and save them for future reference.
Before using the battery charger, read all the instructions and cautionary markings on

- The charger
- The battery, and
- The radio using the battery

To reduce risk of injury, charge only the rechargeable Ailunce-authorized batteries. Other batteries may explode, causing personal injury and damage.
Use of accessories not recommended by Ailunce may result in risk of fire, electric shock, or injury.
To reduce risk of damage to the electric plug and cord, pull by the plug rather than the cord when disconnecting the charger.
An extension cord should not be used unless absolutely necessary. Use of an improper extension cord could result in risk of fire and electric shock. If an extension cord must be used, make sure that the cord size is 18AWG for lengths up to 6.5 feet (2.0 m), and 16AWG for lengths up to 9.8 feet (3.0 m).
To reduce risk of fire, electric shock, or injury, do not operate the charger if it has been broken or damaged in any way.
Take it to a qualified Ailunce service representative.

Do not disassemble the charger: it is not repairable and replacement parts are not available. Disassembly of the charger may result in risk of electrical shock or fire.
To reduce risk of electric shock, unplug the charger from the AC outlet before attempting any maintenance or cleaning.

Operational safety guidelines
1. Turn the radio off when charging the battery.
2. Do not expose the charger to outside environment. Chargers should only be used indoors.
3. Do not operate or disassemble the charger. Do not use a charger that has been dropped or damaged in any way.
4. Never alter the AC cord or plug provided with the unit. If the plug will not fit the outlet, have the proper outlet installed by a qualified electrician. An improper condition can result in a risk of electric shock.
5. To reduce the risk of damage to the cord or plug, pull the plug rather than the cord when disconnecting the charger from the AC receptacle.
6. To reduce the risk of electric shock, unplug the charger from the outlet before attempting any maintenance or cleaning.
7. Use of an attachment not recommended or sold by Ailunce Solutions may result in a risk of fire, electric shock or personal injury.
8. Make sure the cord is located so it will not be stepped on, tripped over or subjected to damage or stress.
9. An extension cord should not be used unless absolutely necessary. Use of an improper extension cord could result in a risk of a fire and/or electric shock. If an extension cord must be used, make sure that:
   - The pins on the plug of the extension cord are the same number, size and shape as
those on the plug of the charger.

- The extension cord is properly wired and in good condition.

10. The supply cord of the AC adaptor cannot be replaced. If the cord is damaged, call customer service.

11. Maximum ambient temperature around the power supply equipment must not exceed 40°C (104°F).

**DANGER**

12. When the conductive metals such as jewellery, key or decorative chains touch the battery terminals, all the batteries are likely to cause damage to the items or personal injury. These conductive metals may form a short circuit and generates much heat. Do deal with any battery carefully, especially when put it into pocket, wallet or other metallic containers.

**WARNING**

The information listed below provides the user with the information needed to make him or her aware of RF exposure, and what to do to as-sure that this radio operates with the FCC RF exposure limits of this radio.

**Electromagnetic Interference/Compatibility**

Note: Nearly every electronic device is susceptible to electromagnetic interference (EMI) if inadequately shielded, designed or otherwise configured for electromagnetic compatibility. During transmissions, Ailunce, INC. radio generates RF energy that can possibly cause interference with other devices or systems.

**Facilities**

To avoid electromagnetic interference and/or compatibility conflicts, turn off your radio in any facility where posted notices instruct you to do so. Hospitals or health care facilities may be using equipment that is sensitive to external RF energy.

**Aircraft**

When instructed to do so, turn off your radio when onboard an aircraft. Any use of a radio must be in accordance with applicable regulations per airline crew instructions.

**Medical Devices** – Pacemakers, Defibrillators or other Implanted Medical Devices

**Persons with pacemakers, Implantable cardioverter defibrillators (ICDs) or other active implantable medical devices (AIMD) should:**

- Consult with their physicians regarding the potential risk of interference from radio frequency transmitters, such as portable radios (poorly shielded medical devices may be more susceptible to interference).
- Turn the radio OFF immediately if there is any reason to suspect that interference is taking place.
- Do not carry the radio in a chest pocket or near the implantation site, and carry or use the
radio on the opposite side of their body from the implantable device to minimize the potential for interference.

Hearing Aids
Some digital wireless radios may interfere with some hearing aids. In the event of such interference, you may want to consult your hearing aid manufacturer to discuss alternatives.

Other Medical Devices
If you use any other personal medical device, consult the manufacturer of your device to determine if it is adequately shielded from RF energy. Your physician may be able to assist you in obtaining this information.

Use of Communication Devices While Driving
Always check the laws and regulations on the use of radios in the areas where you drive.
- Give full attention to driving and to the road.
- Use hands-free operation, if available.
- Pull off the road and park before making or answering a call, if driving conditions or regulations so require.

For Vehicle with Air Bags
Refer to the vehicle manufacturer's manual prior to installation of electronic equipment to avoid interference with air bag wiring. Do not place a portable radio in the area over an air bag or in the air bag deployment area. Air bags inflate with great force. If a portable radio is placed in the air bag deployment area and the air bag inflates, the radio may be propelled with great force and cause serious injury to occupants of the vehicle.

Potentially Explosive Atmosphere
Turn off your radio prior to entering any area with a potentially explosive atmosphere. Only radio types that are especially qualified should be used in such areas as "Intrinsically Safe". Do not remove, install or charge batteries in such areas. Sparks in a potentially explosive atmosphere can cause an explosion or fire resulting in bodily injury or even death.

Note: The areas with potentially explosive atmosphere referred to above include fueling areas such as below decks on boats, fuel or chemical transfer or storage facilities, areas where the air contains chemicals or particles (such as grain, dust or metal powders) and any other area where you would normally be advised to turn off your vehicle engine. Areas with potentially explosive atmospheres are often – but not always posted.

Blasting Caps and Areas
To avoid possible interference with blasting operations, turn off your radio when you are near electrical blasting caps, in a blasting area, or in areas posted “Turn off two-way radios”. Obey all signs and instructions.

WARNING
Use only Ailunce’s approved supplied or replacement belt clip, batteries, charger, antennas and accessories. Use of non-manufacturer-name approved batteries, and accessories may exceed the RF exposure guidelines.
Please read the following brief instructions, non-compliance with these rules may cause danger or violate the law.

Obey the local government regulation before using this radio, improper use may violate the law and the punished.

Do not charge the transceiver and battery pack when they are wet.

Ensure that there are no metallic items located between the transceiver and the battery pack.

Do not use the options not specified by Ailunce.

If the die-cast chassis or other transceiver part is damaged, do not touch the damaged parts.

If the headset or headphone is connected to the transceiver, reduce the transceiver volume. Pay attention to the volume level when turning the squelch off.

Do not place the microphone cable around your neck while near machinery that may catch the cable.

Do not please the transceiver on unstable surfaces.

Ensure that the end of the antenna does not touch your eyes.

When the transceiver is used for long transmissions, the radiator and chassis will become hot.

Do not touch these locations when replacing the battery pack.

Do not immerse the transceiver in water.

Always switch the transceiver power off before installing optional accessories.

The charger is the Device that disconnects the units from the AC mains line, the AC plug should be readily accessible.

Do not transmit too long, for the radio may heat and hurt the user.

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EU Importer:
Importer: Germany Relevis Technology GmbH
Address: Uetzenacker 29, 38176 Wendeburg
GUARANTEE CARD

Model Number: ________________________________
Serial Number: ______________________________
Purchasing Date: ____________________________
Dealer: ____________________________ Telephone: ____________________________
User's Name: ____________________________ Telephone: ____________________________
Address: ____________________________ Post Code: ____________________________

REMARKS:
1. This guarantee card to be kept by the user, no replenishment if lost.
2. This guarantee card to be filled & chopp by the dealer, or it is invalid.
3. Don't alter the guarantee card, please confirm the serial number on the guarantee card is same as that on the machine.
4. Two-year guarantee, charger, battery, earphone, antenna are not under guarantee.
5. The user can get repairing service from the following ways:
   a. Go to the shop where you buy the machine
   b. Our local repairing agent

Shenzhen Relevis Technology Co., Ltd