CONGRATULATIONS!
You have purchased one of the smallest and lightest devices with a unique hand-flexing operation feature. The lightweight and compact wrist watch style device can be operated conveniently with a simple flex of your wrist. Is ideal to stay connected with family or friends at parks, shopping malls, sporting events, concerts — virtually any indoor or outdoor activity.

Key features about this device:
- Multi Channels
- 38 CTCSS, 83 DCS sub-channel
- Duplex (range extend)
- Up to 6Km Range
- Wrist Watch Style with Adjustable Band
- Scrambler function
- Comander function
- TOT function
- Power off resume
- Low battery checking
- Auto Squelch
- Auto Battery Saving
- Internal VOX (3 adjustable voice volume)
- Channel Scan
- Digital clock (12/24 Hour mode)
- 10 mode of call tone
- Reminding tone after transmission over
- LCD Display
- Lithium-Ion Battery with charger

Read this Owner's Manual carefully and you'll get the most out of your two-way wrist watch communicator.

Important:
- Changes or modifications to this unit not approved by manufacturer/Communication Authority could void your right to operate this unit. Your communicator is set up to transmit a regulated Signal on an assigned frequency. It is against the law to alter or adjust the settings inside the communicator to exceed those limitations. Any adjustment to your communicator must be made by qualified technicians.

TO BE SAFE AND SURE:
- Never open the case of your device. No user serviceable parts inside.
- Never change or replace anything in your device.

Your device may interfere with TVs or radios, even when operating properly. To determine whether your communicator is causing interference, simply turn it off. If the interference ends, your device is causing it. Try to eliminate interference by moving your communicator away from the receiver. If you cannot eliminate interference completely, please stop using this device.

Hazardous Environments:
Do not operate the communicator in hazardous environments, explosion or fire may result. Do not operate the communicator near unshielded electrical blasting caps. Under certain conditions, communication or radio devices may cause electric shock. Turn your communicator off before entering a potentially hazardous environment.

CARE AND SAFETY
To clean your communicator, use a soft cloth dampened with water. Do not use cleaners or solvents; they can harm the body of the unit and leak inside, causing permanent damage. Use a dry, lint-free cloth to clean the battery contacts. Do not submerge the unit in water. If the unit gets wet, turn it off and remove the battery immediately. Dry the battery compartment with a dry cloth to minimize potential water damage. Leave the battery compartment cover off overnight to ensure complete drying. Do not use the communicator until the unit is completely dry.

Safety Information
Your wireless hand-held portable transceiver contains a low power transmitter. When the Red Button is pushed, it pushes out radio frequency (RF) signals. This device is authorized to operate at a duty factor not exceeding 0.05. Important Note: To maintain good communication quality, hold the transmitter at least 2 inches (5 centimeters) from your mouth and speak in a normal voice.

BATTERY INSTALLATION
Your communicator is powered by a Lithium-Ion Battery (included). To install and replace battery:
1. Release the Battery Compartment Cover Latch located on the rear side of the unit, and remove the cover from Battery Compartment.
2. Install the Lithium-Ion battery into the Battery Compartment. Be certain to follow the correct orientation in the compartment. A Battery installed incorrectly can prevent the unit from operating.
3. Replace the Cover and lock the battery Compartment Cover Latch into position.

LCD Screen
- Channel Number, Displays current channels
- CTC: displays 38 CTCSS/83 DCS sub-channel
- Battery Level indicator: display battery status
- Time: will display time mode
- Channels: Displays channels
- Volume level: Adjustable 8 volume level
- Receiver Indicator (RF) - Indications when unit is receiving transmissions
- Transmit Indicator (TX) - Indicates when unit is transmitting
- Channel scan
- Alarm clock
- Call Tone Transmission (CALL) - Indicates when unit is paging
- Key lock: If displays when lock key
- VOX - Indicates when unit is in VOX mode
- Date: displays Year/month/day
- AM/FM: If time is 12 Hour mode, will display AM/FM
- Week: displays week

Buttons and Controls
- 17. Scan - Press to enter Channel Scan.
- 18. MIC-Built-in microphones.
- 20. Power / Menu (Multi Function) - Press and hold to turn unit ON/OFF. A quick, single press accesses the Menu and Watch setting.
- 21. Antenna: when there signal is poor, to use antenna
- 22. Up-Adjusts volume level (default), and makes channel and watch adjustments in Menu mode.
- 23. Down-Adjusts volume level (default), and makes channel and watch adjustments in Menu mode.

This device complies with telecommunication management standard. Operation is subject to the following conditions:
- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may require undesired action.

CAUTION:
To reduce the risk of personal injury, use only the battery listed in the instruction book. The communicator has a built-in Power Saver feature for maximum battery life. When the communicator is not being used, conserve battery power by pressing the Power Key to turn OFF the unit. Remove the battery if the unit will not be used for a long period of time.

CHARGING THE BATTERY
Caution: Do not use charger before inserting battery.!!
Your communicator comes with an A/C Adapter charger to charge your Lithium-Ion battery. To charge:
1. Lift the Headset/Charger Jack Cover located on the side of your unit.
2. Connect the A/C Adapter Charger into an A/C Wall outlet.
3. Insert the A/C Adapter Charger into the Headset/Charger Jack. During charging the Low Battery Level icon will appear on the display, and will disappear once the battery is fully charged.

NOTE: Change the battery for approximately 6 hours before initial use. Normal charging time is for 3 hours.

NOTE:
The communicator comes with internal battery protection; however, during long-term storage, it is strongly recommended that you recharge the battery every 6 months or remove the battery if the unit will not be used for a long period of time.

BATTERY LEVEL AND LOW BATTERY OPERATION
In watch and Communicator Mode the Low Battery Level icon will not appear on the display unless the unit detects that the battery is low. The unit has a low battery level icon which will appear when it detects a low battery level in Communicator mode, and in Watch Mode. When the unit in in Communicator Mode and the battery level is low the icon will appear for approximately 15 seconds and then will automatically change to Watch.

NAVIGATING THROUGH THE MENU
To access the advance features, your communicator has a Menu with two functions.
Watch Mode
To enter or exit Watch Mode, press the Power key for around 3 seconds. A short beep tone will be generated if the button is not pressed.

Communication Mode
1. Your communicator will automatically go to communication mode once the battery is installed, the watch segments and channel icons will be displayed on the LCD during this mode. Press the Menu key for about 3 seconds to enter the Watch Setting Mode; short beep tone will be generated when the Time Setting mode is engaged.
2. In Communicator Mode, if presses of the Menu key for longer than 1 second will advance you through the menu until exiting to communicator mode.
3. Menu mode exits and to standby mode when the Menu key is pressed while the menu selection is active.
4. The unit automatically enters Watch mode in 15 minutes.

NOTE: In Watch Mode, no button/key will function unless pressing menu key for about 3 seconds to enter Communication Mode.

To set the Time (Watch mode)
Your Communicator has a 12/24-hour Time Clock, which can be set as follows:

1. In Communication mode, enter to Menu mode by long pressing the Menu key until a short key-beep tone is heard. When the time Setting mode is engaged, the Hour segment in the LCD Display will flash.
2. Press the Menu button 7 times, screen will display 12/24-hour mode setting, by press $ button to start to set, press Up or Down key to select 12 or 24H mode. To press $ button to confirm, if you choose 12H mode, screen will display AM/PM.
3. Date setting: By press Menu button 2 times, screen will display 00 01 01 (year/month/date), by press $ button to select year/month/date, press Up, Down button to select date, press $ button to confirm setting.

Important
- Speech transmissions are not allowed on channel 22 and 2(receive only)
- CTCSS and call ring tone calling should be disabled on channel 5 and 35
- If call ring tone calling is provided, it is only allowed to operate for a maximum of 3 seconds and it can only be possible to operate once in any 60 seconds period

Choosing Frequency, channel
Your Communicator have built-in 8 countries frequency and 38 group of CTCSS sub-channels. 83 group of DCS sub-channels for each channel for communicating with others. You can use only communicate with other radio users tuned to same channel and sub-channel

1. Frequency setting: under communication mode, press the menu button one time, the signal code keep flashing in screen, to press UP, DOWN button to adjust frequency, press PTT button to confirm setting.
2. 38 group of sub-channel selection: Press MENU button two times, CTC code keep flashing, press the Up or Down button to select 38 group of sub-channel from 1 to 38 channels, and screen will display CTC Character under CTC code, press PTT button to confirm setting. CTC code Default setting is 00 when power on.
3. 83 group of DCS sub-channel setting: press MENU button 2 times, CTC code will be keep flashing, press UP or Down button to select 83 group of DCS sub-channels from 1 ~83, press PTT button to confirm setting. There is no CTC character displayed in screen under CTC code. CTC code Default setting is 00 when power on.

Scrambler setting
(voice encryption function, communication party must set complader as on)
Press MENU button 7 times, screen will display SC OF character, character OF keep flashing, by press UP or Down button to choose ON or OFF, press PTT to confirm setting. Default SC setting is on.

Componder setting
Press MENU button 6 times, screen will display CP on, character on keep flashing, press UP or Down button to choose ON or OFF, press PTT to confirm setting, compasser default setting as on when power on (when CP on, conversation voice will be more clear, communication range is more far, when CP off, conversation voice quality will be poor when communication range is a little far)

4. Time setting: by press MENU button 3 times, screen will display 12 00 00 (hour/minute/second), by press $ button to select hour/minute/second, by press UP/DOWN button to adjust time, to press $ button to confirm setting, when setting time, screen will display AM or PM 12H mode is 12H mode.
5. Stopwatch setting: by press MENU button 4 times, screen will display stopwatch mode 00 00 00, to press PTT button to start time count, time count will pause by press PTT again; to continue time count by press MENU button again, by press UP, DOWN button for zeroing.
6. Clock countdown setting: Press MENU button 5 times, screen display clock countdown mode 00 00 (hour/minute/second). By press S button to select minute/second/milliseconds and press UP, DOWN button to select time then press $ button to confirm setting; by press PTT button to start countdown, press PTT again to make countdown pause and to press PTT continue to countdown.
7. Alarm clock setting: to press MENU button 6 times, enter alarm clock mode, Screen display OF and clock icon. Press PTT button to set alarm clock mode 12 00 00 (hour/minute/second), by press $ button to select hour/minute/second and by press UP, DOWN button to adjust time, to press $ button to confirm setting; then screen will display alarm clock icon, when time is up, alarm clock will ring. Exit the alarm clock mode by press any button.

8. Key lock setting: under the watch mode, by press menu button one time and press $ button quickly to lock all button; under the communication mode, by long time press $ button to lock all buttons except for PTT button, same operation apply to unlock button.

Duplex operation via repeaters
This feature allows to use local repeater stations that are designed to automatically re-transmit your broadcast over a large area thus giving you increased coverage. For example, if you wish to access a repeater station in your area which operate on channel 2, you only need to set the duplex access on this channel, so if you are in the range of a local repeater which transmits on channel 2, after setting your radio to allow access of the repeater on that channel, you will select channel 2 as normal but during transmit operation, your radio will automatically transmit to the repeater on channel 2.

Turning on/off duplex on channels:
A. select the required channel to suite the repeater station you wish to access (channels from 1-4 and 41-48)
B. Press the UP or Down button to set simplex function
C. Press PTT button to confirm your setting.
D. The duplex icon will display to indicate that duplex is set on that channel

Receive channel
1 2 3 4 5 6 7 8
Transmit channel
31 32 33 34 35*
Receive channel
41 42 43 44 45 46 47 48
Transmit channel
71 72 73 74 75 76 77 78
* Channel 5 is emergency channel only

TET setting (time of transmission setting)
Press MENU button 8 times, screen will display LO OF, character OF keep flashing, by press UP or DOWN button to choose ON or OFF, press PTT button to confirm setting, default setting, icon when power on (if you select 30 second, transmission will be stopped automatically once your TET transmission time is more than 30 seconds. This same apply to 60 second setting

Channel Scan
To scan the whole channels of the Communicator for any activity:
1. Press the Scan key found on the side of the unit. Once engaged, the unit will start to rapidly scan the whole channels of the communicator for any activity. The unit will pause on an active channel for 4-8 seconds before resuming Scan function.
2. To exit the Scan mod, press the Red button.

Call Tone setting
Press Menu button 4 times, screen will display CALL character, digital 01 keep flashing, by press UP or DOWN button to select call tone from 01~10, press PTT button to confirm call tone setting. Default setting for call tone is 01.

There are 10 mode call tone in this unit, you and other party can use designed call tone to communicate separately, secretly to avoid any disturb.

Power save setting
Your communicator has a unique circuit designed to dramatically extend battery life. Press Menu button 5 times, screen will display PS OF character, character OF keep flashing, by press UP or Down button to choose ON or OFF, press PTT button to confirm setting. Default power save setting is OF, (under communication mode, if no any operation and receive signal for unit, unit will enter watch mode), The communicator can still receive transmission in this mode.

Level of volume setting
Under communication mode, press UP or Down button to adjust volume level from 1~8, default volume setting as level 6.

Power off resume setting
This function can make unit to resume before setting after power off.

Background LCD light
Under the mode of watch and communication, when press any button, LCD will be brighten for 5 seconds.

Transmission and reminding tone
When transmission end, the communication parties will receive reminding tone in the same time to show conversation over.

Low battery detecting (battery voltage display)
Under watch mode and communication mode, unit will detect battery voltage, it will show from full range to 1 level according to battery voltage status.
Under watch mode, when battery voltage is lowing, by press MENU button to contact battery detecting.
Under communication mode, when battery voltage is lowing, screen will show full range of battery voltage when charging.
Transmitting and Receiving
To use your communicator to communicate with others:
1. In Communicator Mode, the unit is continuously in RECEIVE mode.
2. Press and hold the Red Button down as you normally would, holding the microphone about 2–3 inches away from your mouth.
3. When you are finished speaking, release the Red Button. You are now ready to receive incoming transmissions. While receiving transmission, the RX icon appears on the display.

Sending a Call Alert Tone
To send a Call Alert Tone, Press the Red Button twice in a rapid action. The Call Alert Tone will be automatically transmitted for a factory-set fixed length of time. During transmission, the Call Alert Tone appears on the display. You will hear a brief Call Alert Tone to confirm operation. The communicator returns to standby mode when the Call Alert Tone sequence is complete. For optimum performance, make sure the ANTENNA is pointing upright.

VOX setting (Voice Operated Transmission)
Your communicator is equipped with an adjustable Voice Operated Transmitter (VOX) that can be used for automatic voice transmission. In this convenient mode, transmission is automatically initiated by speaking into the microphone. There is no need to push the Red Button.

Press by MENU button 3 times, screen will display VX character, character OK keep flashing, press UP or DOWN button to choose on or off. Press UP or DOWN button to select voice level from 1 to 3 levels, by press PTT button to confirm setting.

Communication Mode display watch clock + week.
1. Open the radio will display communication mode, after 6 seconds, the radio will auto-display watch clock and week.
2. When it is in the clock interface press the MENU, SCAN, PTT, UP, DOWN button, after finishing the operation, it will Auto-display watch clock + week.
3. When it is in the watch clock interface, press 1times the UP and DOWN button, then the communication mode will auto-display, after 3seconds, it will auto-transfer from communication mode to display watch clock + week.
4. When it is in the watch clock interface, press 1times the PTT button, it will auto-display communication mode, after 1seconds, it will auto-transfer from communication mode to display watch clock + week.

The alarm function for communication mode
After watch mode setting the alarm function, the communication mode will display the alarm graff in the left corner, when the alarm arrived, and it wills auto-open sound when it is in the communication mode. The companion has alarm sound, during the alarm, when you do not press any buttons, it will auto-close after 1 minute; if it is during the alarm, if you press any buttons, it can close the alarm.

Remarks: watch clock + date setting and alarm function setting must be operated only in the watch mode communication mode can not start the time, week and alarm setting.

To get the full advantage of the convenience of a hands free transmission and the privacy of conversation, you can optionally use an Ear Bud with Microphone to be used in conjunction with the VOX feature of your communicator.

To use the Ear Bud:
1. Set your communicator to VOX Mode.
2. Lift the headset/Charger Jack Cover Located at the side of your unit.
3. Insert the Ear Bud Jack into the headset Jack. Wear the Ear bud and adjust the Microphone location.

The Auto Squelch Feature
Your communicator is equipped with an automatic squelch system that automatically cuts off weak transmissions and unwanted noise due to terrain conditions and range limitations.

PR. China (20ch)

Channel | Frequency (MHz) |
<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>409.7500</td>
</tr>
<tr>
<td>2</td>
<td>409.7025</td>
</tr>
<tr>
<td>3</td>
<td>409.7575</td>
</tr>
<tr>
<td>4</td>
<td>409.8000</td>
</tr>
<tr>
<td>5</td>
<td>409.8125</td>
</tr>
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| Taiwan (14ch)
| 1      | 467.5125       |
| 2      | 467.5250       |
| 3      | 467.5375       |
| 4      | 467.5500       |
| Europe (8ch)
| 1      | 446.00625      |
| 2      | 446.01875      |
| 3      | 446.03125      |
| USA (22ch)
| 1      | 462.5625       |
| 2      | 462.5875       |
| 3      | 462.6125       |
| 4      | 462.6375       |
| 5      | 462.6625       |
| Korea (25ch)
| 1      | 448.7500       |
| 2      | 448.7625       |
| 3      | 448.7750       |
| 4      | 448.7875       |
| 5      | 449.0000       |

Australia (80ch)

Channel | TX Freq MHZ | RX Freq MHZ
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<tr>
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<th></th>
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</thead>
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<tr>
<td>01**</td>
<td>476.4500</td>
<td>476.4500</td>
</tr>
<tr>
<td>02*</td>
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<td>06*</td>
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<td>07*</td>
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<td>08*</td>
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<tr>
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</tr>
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</tr>
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</table>

Remarks: when transmitting, hold MICROPHONE 2 to 3 inches from mouth and speak normally. When receiving, lower volume to a comfortable level. Communicators must be at least 10 feet apart; increase your distance. Your destination. Communicators are too far apart. Obstacles interfere with Transmission. Talk range is up to 2 km in clear unobstructed conditions.
Important note:
The operation of your UHF radio in Australia and New Zealand is subject to conditions in the following licenses:
In Australia the ACMA radio communications (citizen band radio stations) and in New Zealand by MED the general user license for citizen band radio.
*The primary use for these channels is repeater operation using 750kHz offset. Channels 1-8 and 41-48 inclusive are used for mobile reception and channels 31-38 and 71-78 for mobile transmission. In addition, any designated repeater channel may be used for simplex operation in areas where it is not used for repeater operation.
  - Speech telephony shall be inhibited on these channels.
  - At the time of production channels 61, 62 and 63 are guard channels and are not available for use.

Channel 5 and 35 (paired for Duplex repeaters) are reserved as emergency channels and should be used only in an emergency.

CTCSS and DCS will not operated on channels 5 and 35.

A list for currently authorized channels can be obtained from the ACMA website in Australia and MED website in New Zealand. Channel 11 is a calling channel generally used to call others and Channel 40 is the customary road vehicle channel.

Once contact is established on the calling channel, both stations should move to another unused "SIMPLEX" channel to allow others to use the calling channel.

38 CTCSS CODE LIST

<table>
<thead>
<tr>
<th>CODE</th>
<th>Frequency (Hz)</th>
<th>CODE</th>
<th>Frequency (Hz)</th>
</tr>
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<tbody>
<tr>
<td>OFF</td>
<td>0kHz</td>
<td>10</td>
<td>94.8</td>
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<tr>
<td>1</td>
<td>67.0</td>
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<td></td>
<td></td>
<td>29</td>
<td>179.9</td>
</tr>
</tbody>
</table>

Customer can design channels.

SPECIFICATIONS
- Power Source: 3.7V/650mAh Lithium-Ion Battery
- Output Power (TX): 0.5W ERP maximum
- Battery Life: 3Years
- Range: ≤30.0 Kilometers (Can make range as long as expected by customer by provide extra service)

Warranty Card
We provide one-year free maintenance. Should this product fail to perform normally within the warranted period, it will be repaired with the same or functionally equivalent product.
This warranty does not apply if the product fails due to damage from shipment, handling, storage, accident, abuse or misuse or if it has been used or maintained in a manner not conforming to product manual instructions, has been modified in any way or has had any serial number removed or defaced.
The maximum liability of us under this warranty is limited to the purchase price of the product covered by the warranty.
The reseller should fill in the following form for after-sale service. The buyer should retain proof of purchase and this warranty card.