



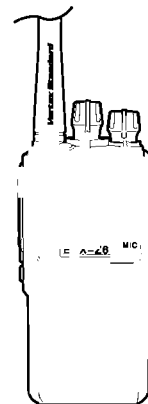
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EVX-Z61-G6-4

User's Manual



PROGRAMMABLE FUNCTIONS/FEATURES

- 2x16 Channels
- Four Programmable Function Keys
- DTMF Signaling
- Text Message
- Lone work
- Talk Around
- VOX
- Emergency Alert
- Remote Control Decoder (Digital only)
- Selective Call

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Congratulations!

You now have at your ngertips a valuable communications tool, a Vertex Standard two-way radio! Rugged, reliable and easy to use, your Vertex Standard radio will keep you in constant touch with your colleagues for years to come, with negli-gible maintenance down-time. Please take a few minutes to read this manual carefully. The information presented here will allow you to derive maximum performance from your radio, in case questions arise later on.

Important Note

- There are no owner-serviceable parts inside the radio. All service jobs must be referred to an authorized Vertex Standard Service Representative.
- In order to maintain the specified water integrity performance, periodic maintenance is recommended.
- Should the radio sustain a severe shock (e.g. if it is dropped), the water integrity may be compromised, requiring service. Should this occur, contact your Authorized Vertex Standard Dealer.

INTRODUCTION

The EVX-Z61 is full-featured Hand-Held Digital/Analog Transceiver designed for business communications in the VHF/UHF Land Mobile bands

Channel frequency data for the transceiver is stored in flash memory, which is easily programmed by Vertex Standard li-censed dealers using a standard PC and the following Vertex Standard programming equipment:

This manual will describe in detail the many advanced features of the EVX-Z61. After reading this manual, you may wishto consult with your Network Administrator regarding precise details of the configuration of this equipment for use in your application.

WARNING! FCC RF EXPOSURE REQUIREMENTS

This Radio has been tested and complies with the Federal Communications Commission (FCC) RF exposure limits for Occupational Use/Controlled exposure environment. In addition, it complies with the following Standards and Guidelines:



WARNING:

This radio generates RF electromagnetic energy during transmit mode. This radio is designed for and classified as Occupational Use Only, meaning it must be used only during the course of employment by individuals aware of the hazards, and the ways to minimize such hazards. This radio is not intended for use by the General Population in an uncontrolled environment.



CAUTION:

To ensure that your exposure to RF electromagnetic energy is within the FCC allowable limits for occupational use, always adhere to the following guidelines:

- This radio is NOT approved for use by the general population in an uncontrolled exposure environment. This radio is restricted to occupational use, work related operations only where the radio operator must have the knowledge to control his or her RF exposure conditions.
- When transmitting, hold the radio in a vertical position with its microphone 1 inch (2.5 cm) away from your mouth and keep the antenna at least 1 inch (2.5 cm) away from your head.
- Transmit no more than the rated duty factor of 50% of the time. To transmit (talk), push the Push-To-Talk (PTT) button. To receive calls, release the PTT button. The PTT button may reside on the radio itself or may be hosted on

WARNING! FCC RF EXPOSURE REQUIREMENTS

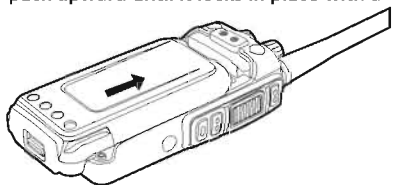
approved accessories. Transmitting 50% of the time, or less, is important because this radio generates measurable RF energy exposure only when transmitting (in terms of measuring for standards compliance). The radio is transmitting when the red LED on the top of the radio is illuminated.

- In front of the face. Hold the radio in a vertical position with the microphone (and other parts of the radio including the antenna) at least 1 inch (2.5 cm) away from the nose or lips. Keeping the radio at a proper distance is important to ensure compliance.
- Body Worn Operation: When worn on the body, always place the radio in a Vertex Standard approved clip, holder, holster, case, or body harness for this product. Using approved body-worn accessories is important because the use of non-Vertex Standard approved accessories may result in exposure levels, which exceed the occupational/controlled environment RF exposure limits.
- Always use Vertex Standard authorized accessories.
- The information listed above provides the user with the information needed to make him or her aware of RF exposure, and what to do to assure that this radio operates with the FCC RF exposure limits of this radio.
- Electromagnetic Interference/Compatibility
During transmissions, this radio generates RF energy that can possibly cause interference with other devices or systems.
To avoid such interference, turn off the radio in areas where signs are posted to do so.
Do not operate the transmitter in areas that are sensitive to electromagnetic radiation such as hospitals, health care facilities, aircraft, and blasting sites.

BEFORE YOU BEGIN

Battery Pack Installation and Removal

■ To install the battery pack, align the battery pack to the radio with an offset about 1/2 inch (1.5 cm) from the top edge of battery compartment, then slide the battery pack upward until it locks in place with a Click.



■ To remove the battery, turn the radio off and remove any protective cases. Slide the Battery Pack Latch on

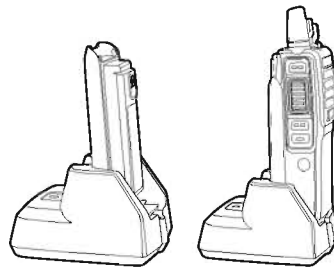
⚠ Do not attempt to open any of the rechargeable Lithium-Ion packs, as they could explode if accidentally short-circuited.

Battery Charging

■ Remove the Spacer Plate from the nest of the optional Desktop Charger, if the Battery Spacer is installed.

■ Insert the DC plug from the optional AC Adapter into the DC jack on the rear panel of the optional Desktop Charger, and then connect the AC Adapter to the AC line outlet.

■ Insert the battery pack into the Desktop Charger while aligning the slots of the battery pack with the guides in the nest of the Charger; refer to the following illustration for details on proper positioning of the battery pack. If charging with the transceiver attached, turn the transceiver off. The antenna jack should be at the left side when viewing the charger from the front.



BEFORE YOU BEGIN

■ If the battery pack is inserted correctly, the LED indicator will glow red. A fully-discharged battery pack will charge completely in 1.5 - 4.5 hours (depending on the battery pack being charged).

■ When charging is completed, the LED indicator will change to green.

■ Disconnect the battery pack from the Desktop Charger and unplug the AC Adapter from the AC line outlet.

⚠ 1) Always use the Vertex Standard -UNI Lithium-Ion Battery Pack, or Nickel-Metal Hydride Battery Pack.

2) Use only the Vertex Standard Desktop Charger with the AC Adapter, or Vertex Standard approved Charger.

3) To reduce the risk of explosion, recharge the batteries outside of hazardous locations.

4) Perform the battery charging where the ambient temperature range +41°F to +104 °F (+5 °C to +40°C).

Charging outside of this temperature range could cause damage to the battery pack.

5) Battery Pack should not be exposed to excessive heat

such as sunshine, fire, or similar heat sources.

6) Risk of explosion exists if battery is replaced by an incorrect type. Refer to the enclosed instructions for disposal of used batteries.

7) When charging a Battery Pack alone (not attached to the transceiver), do not allow any metal object to short the terminals of the Battery Pack.

8) Do not allow any metal objects to short the terminals in the nest of the Desktop Charger, as a short-circuit could cause overheating of the charger circuitry and create an electrical hazard.

9) For further details and cautions of the charging, refer to the Operating Manual of the Desktop Charger

Low Battery Indication

As the battery discharges during use, the voltage gradually becomes lower. When the battery voltage becomes too low, substitute a freshly charged battery and recharge the depleted pack. The LED indicator on the top of the radio will blink red when the battery voltage is low.

BEFORE YOU BEGIN



CAUTION:

Danger of explosion if battery is replaced with an incorrect battery. Replace only with the same or equivalent type.

MIC/SP CAP Installation



- Use only the supplied screws when install the MIC/SP cap.
- This radio does not keep the Water Resistant Rating when the Hard MIC/SP cap is not in-stalled in the MIC/SP jack.

Install Belt Clip

■ Where necessary, you can lock the belt clip provided together with the radio into the screw holes for easy carrying;

To remove the belt clip, unscrew the two screws.



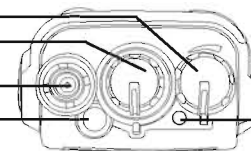
BEFORE YOU BEGIN

VOL (Volume)/PWR (Power) Knob

CH (Channel) Selector

Antenna Jack

Top key



LED Indicator

Default settings are:

Steady Red: Transmitting in progress

Blinking Green: Busy Channel

Steady Green: Tone Squelch in defeated condition

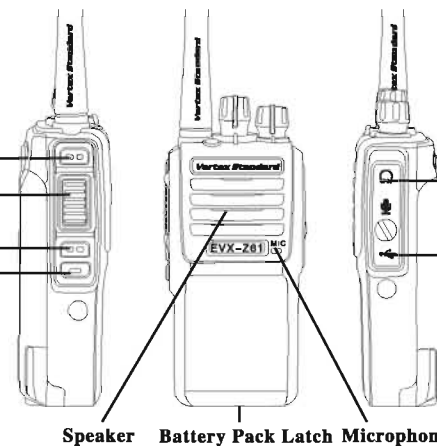
Blinking Red: Low Battery Power

SIDE-1 Button

PTT Switch

SIDE-2 Button

SIDE-3 Button



MIC/SP Jack
(External MIC/SP)

Micro-USB Jack

OPERATION

Preliminary Steps

- Install a charged battery pack onto the transceiver, as described previously.
- Screw the supplied antenna onto the Antenna jack.
It is not recommended to operate this transceiver without an antenna connected.
- If you have a Speaker/Microphone, we recommend that it not be connected until you are familiar with the basic operation of the EVX-Z61. Refer to next page for more information about Speaker/Microphone usage.



IMPORTANT NOTE

The water resistance rating of the transceiver is assured only when the following conditions are met:

- Battery pack is attached to the transceiver;
- Antenna is connected to the antenna jack;
- Hard MIC/SP cap is installed in the MIC/SP jack.
- Use of a speaker microphone in the MIC/SP jack negates the Water resistance.

Operation Quick Start

- Turn the top panel's VOL/PWR knob clockwise to turn the radio on.



OPERATION

- Turn the top panel's CH Selector knob to choose the desired operating channel.



- Rotate the VOL/PWR knob to set the volume level. If no signal is present, press (or press and hold) the Programmable key (assigned to the SQL OFF function: Normally SIDE-1 button); background noise will now be heard, and you may use this to set the VOL/PWR knob for the desired audio level.



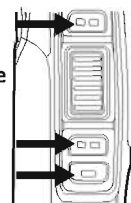
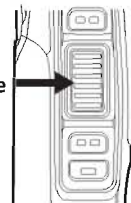
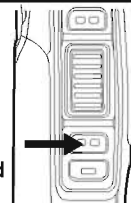
Press (or press and hold) the Programmable key again to quiet the noise and resume normal (quiet) monitoring.

- To transmit, monitor the channel and make sure it is clear.

Press and hold the PTT switch.

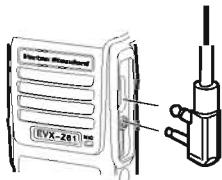
Speak into the microphone area of the front panel grille in a normal voice level. To return to the Receive mode, release the PTT switch.

- Press (or press and hold) the SIDE-1 or SIDE-2 SIDE-3 button to activate one of the pre-programmed functions programmed using software by your Vertex Standard authorized dealer. See the next chapter for details regarding feature availability for this radio.



OPERATION

- If a Speaker/Microphone is available, remove the plastic cap and its mounting screws from the right side of the transceiver, then insert the plug of the Speaker/Microphone into the MIC/SP jack; secure the plug using the screws supplied with the Speaker/Microphone. Hold the speaker grille up next to your ear while receiving.



To transmit, press the PTT switch on the Speaker/Microphone, just as you would on the main transceiver's body, and speak into the microphone on a normal voice level.

Note 1): Save the original plastic cap and its mounting screws. They should be reinstalled when not using the Speaker/Microphone.

2) When you press the PTT switch on the Speaker/Microphone, it disables the internal microphone, and vice versa.

- This radio has two modes of DMR operation to maximize spectrum efficiency. Standard operation requires use of a TDMA repeater (such as the EVX-R70) to utilize the repeater's dual time slot capability for doubling your radio fleet's communication paths for up to two simultaneous transmissions. The second mode is Direct mode, which enables two communications paths on a single frequency, doubling your capacity with only the subscriber radios. No repeater is necessary when operating in Direct mode.

- If the BCLO (Busy Channel Lockout) feature has been programmed on an analog channel, the radio will not transmit when a carrier is present. Instead, the radio will generate short beep three times. Release the PTT switch and wait for the channel to be clear of activity.

- If the BTLO (Busy Tone Lockout) feature has been programmed on an analog channel or CCLO (Color Code Lockout) feature has been programmed on a digital channel, the radio can transmit only when

OPERATION

there is no carrier being received or when the carrier being received includes the correct tone (CTCSS tone or DCS code) on an analog channel or correct code on a digital channel.

Automatic Time-Out Timer

If the selected channel has been programmed with an Automatic Time-Out Timer, any transmission is limited to a fixed transmit time, dictated when programming the radio with software. A 10 second warning tone/beep will sound before Automatic Time Out Timer is activated, with a second tone/beep sounding when the radio officially reaches the pre-set maximum transmission time. In addition, the top panel red LED ("TX" indicator) light will turn off and any transmission activity will stop. To re-sum transmission, the user must release the PTT switch and await expiration of the "penalty timer".

ADVANCED OPERATION

Programmable Key Functions

The EVX-Z61 provides three Programmable Function (PF) keys top key: SIDE-1 SIDE-2 SIDE-3keys.

Both PF keys can be customized, via programming by your Vertex Standard dealer, to meet your communications/network requirements.

The possible PF key programming features are illustrated at the right.

For future reference, the table on the right side of the page can be used to track each function assigned to the Programmable Function Keys on your radio.

ADVANCED OPERATION

FUNCTION	PROGRAMMABLE KEY(SHORT PRESS/LONG PRESS)			
	Function	programmable key(short press key/long press key)		
	Top key	SIDE-1	SIDE-2	SIDE-3
All alert tone on/off	/	/	/	/
Emergency on/off	/	/	/	/
High/Low power	/	/	/	/
Monitor	/	/	/	/
Nuisance delete	/	/	/	/
One touch access1	/	/	/	/
One touch access2	/	/	/	/
One touch access3	/	/	/	/
One touch access4	/	/	/	/
One touch access5	/	/	/	/
One touch access6	/	/	/	/
Repeater/talk around	/	/	/	/
Scan on/off	/	/	/	/
Tight/normal squelch	/	/	/	/
VOX on/off	/	/	/	/

ADVANCED OPERATION

Advanced operation	Function programmable key (short press key/long press key)			
	Top key	SIDE-1	SIDE-2	SIDE-3
Zone Toggle	/	/	/	/
Battery indicator	/	/	/	/
Lone work on/off	/	/	/	/
Record on/off (according to firmware)	/	/	/	/
Record playback (according to firmware)	/	/	/	/
Delete all record (according to firmware)	/	/	/	/

TRANSMITTING

Analog TX: Hold on PTT key, then talk to the microphone with normal tone.

Digital TX: Each channel in the radio can be configured to digital channel.

When calling, the radio will send transmitting signal to other radios once you press the PTT key.

Press PTT key to talk and release PTT key to listen, press PTT key will activate the microphone.

When you not calling, press PTT key to start a new call (use the channel knob to select a channel or preset side key call).

During the calling, if your radio have opened the channel free indicate function, then the aimed radio release the PTT, you will hear a short beep which means that channel is free of use and wait for your reply.

If the calling interrupt (for example the radio receive the emergency alert) you will hear the channel free prompt tone. You can set all the prompt tone off to close the

ADVANCED OPERATION

channel free prompt.

During the calling, if your radio open the color code function (programmed by software), then the receiver should have the same color code to receive your call.

Receive and send call

zone is a channel group. EVX-Z61 support two zones, and no more than 16 channels for each zone. The side key for zone switch as the preset program. You will hear a confirmation tone which means the radio have switch from zone one to zone two, or you will hear another prompt tone, it means that the radio have switched from zone two to zone one.

Select radio channel, user ID and talking group ID.

After setting the zone you need (if the radio have more than two zones), you can turn the knob to select the channel, user id and talking group ID.

Receive and answer the radio calling

After setting the channel user ID or talking group ID, you can receive or answer the calling.

When the radio transmitting, the LED indicator is red, the led indicator is green when the radio receiving the signal. Analog receive: when receive the same carrier and match tone it will open the SQ.

Sound receive: when receive the correct call (number match: private call, group call, all call), the radio will receive and open the speaker, hear the sound from one another. Short message receive: If you hear didi when receive the short message it means the short message send successfully. It means the short message can not send if you hear a low tone prompt.

Receive and answer group call

When receive the call from the user group, this radio should be in this talking group.

ADVANCED OPERATION

1.LED light is green.

2.Hold the radio in a vertical position with the microphone at least 1 inch to 2 inch(2.5 cm to 5cm) away from your mouth.

If you open the channel free indicate function, when the other release the PTT key, you will hear a short beep, it means this channel is free, wait for your answer.

3.Press PTT key to answer this call, LED indicator is red.

4.If the talk allow prompt tone is activated ,then talk to the microphone.

5.Release the PTT to listen.

6. If at a preset time period without voice activity, the call is terminated.

Receive and answer private call

Private call is one radio to call another radio, it have two types: one is start to detect before starting the private call, another is call immediately. If you select your radio, LED indicator will be green .You only can select one type

of call to program to your radio.

When you receive private call

1. LED indicator will be green.

2.Hold the radio in a vertical position with the microphone at least 1 inch to 2 inch(2.5 cm to 5cm) away from your mouth.

If you open the channel free indicate function, when the other user release the PTT key, you will hear a short beep, it means this channel is free, wait for your answer.

3.Press PTT key to answer this call, LED indicator is red.

4.If the talk allow prompt tone is activated ,then talk to the microphone.

5.Release the PTT to listen.

6. If no voice activated at a preset time period , the call will be terminated.

7.You will hear a short tone.

Receive all call

All call is one radio to call the other radios on the channel. It is used to inform users to pay special attention to the

ADVANCED OPERATION

important information.

1.When you receive all call,It will sound a prompt tone, and the Led indicator will be green.

2. If no voice activated at a preset time period , the call will be terminated.

If you open the channel free indicate function, when release the PTT key, you will hear a short beep, which means this channel is free, wait for your answer.

Caution

When you receive all call, If you want switch to another channel,the radio will stop to receive all call. During the period of all call,you can not use any programmed key function until all call finished.

Send a radio call

You can use the following method to select one channel, USER ID or group ID.

Select Channel knob to switch programmed one touch access function.

Use the channel knob to send call

Group call

If you want to send a call to one group user, this radio should be in this group.

1.Turn the channel knob, use the activated Group ID to select the channel.

2.Hold the radio in a vertical position with the microphone at least 1 inch to 2 inch(2.5 cm to 5cm) away from your mouth.

3.Press PTT key to send call ,and the LED indicator is red.

4.Then you can talk to the microphone.

5.Release the PTT key to listen and if other radio answers your call ,the LED indicator will be green.

6.Release PTT button,you will hear short prompt sound, which means the channel is idle, and waiting for your response.

Press PTT button to reply or if without any voice activity in presetting time, call will be terminated.

ADVANCED OPERATION

Private call

Rotate the channel and use the activated user ID to select channel.

1. Hold on the radios and keep it on the vertical position, and make sure the radios is 1-2inch(2.5-5.0cm) away from your mouth.

2. Press PTT button to make a call, and LED indicator lights red.

Call allow prompt sound (if activated),and then talk to the microphone clearly.

3. Release PTT button to listen,when the target radio reply,LED indicator light green.

If enable"channel idle indicate"feature,then when target radio release PTT button,you will heard short prompt sound,means the channel idle,waiting for your response.

Press PTT button to reply,or if without any voice activity in preset time, the call will be terminated.

You will heard a short sound.

All call

This feature allow you to transmit signal to all the users on the channel.Radio must program to allow you use this feature.

1. Rotate the channel select button,use the activated user ID to select channel.

2. Hold on the radios and keep it on vertical position, and make sure the radios is 1-2inch(2.5-5.0cm) away from your mouth.

3. Press PTT button to make a call,LED indicator lights red.

Call allow prompt sound (if activated),and then talk to the microphone clearly,the users on the channel can't response to all call.

Use one touch access to initiate group call or private call

One touch access allows you to make a group call or private call to predefined ID or contact person conveniently. This feature can assign to short press or long press side button to initiate.You can assign one ID or predefined contact person to one touch access.

ADVANCED OPERATION

EVX-Z61 can have multiple programmed one touch access.

1. Press the preset one touch access side button,and initiate a group call or private call to predefined ID or current contact person.

2. Hold on the radio and keep it on vertical position,and make sure the radio is 1-2inch(2.5-5.0cm) away from your mouth.

3. Press PTT button to make a call,LED indicator lights red. Call allow prompt sound (if activated),and then talk to the microphone clearly.

4. Release PTT button to listen,when the targeted radio reply,LED indicator light green.

If enable"channel idle indicate"feature,then when target radio release PTT button,you will heard short prompt sound,means the channel idle,waiting for your response.

5. Press PTT button to reply,or if without any voice activity in presetting time,call will be terminated.As per private call,when call termination you will heard a short prompt sound.

Text message setting

Send preset message

You can use the preset side button to send the preset message, and maximum 50 text messages.

1. Press preset one touch access to send the preset message to the fixed contact person.

2. LED indicator lights red.

Two DI DI sound means send successfully,or one low sound prompt means message can't send.

Digital Emergency Alarm System

You can program Alarm Type by software and enable/disable the function by programmable keys.

Disabled: Close the Alarm function and the unit cannot initiate emergency alarm, but can receive the emergency call alarm from other units.

Regular: The unit sending the Alarm tone and after preset time (programmed by software) send the alarm tone and ID to the receive unit

Silent: The unit is not alarmed but send the ID to the

ADVANCED OPERATION

receive unit and that unit alarm

Silent With voice: In the status of alarm press PTT key to send the voice from speaker.

Lone Work

Enable/disable the function by programmable keys, in order to ensure the security of the user when in the status of lone working. In the process of lone work, the unit will sound the alert tone in the due time, the user must press any key to indicate the security, otherwise the unit will be go for automatically alarm mode

Scan (programmable keys on/off)

Scan List

Create scan list and program single channel/group as the scan list, the radio will scan all channels/group in the scan list. The radio support maximum 250 scan lists, each list includes 16 members

Scan

When the scan enabled, your radio use cycle pre-program scan list to check if the current channel have voice

activity or not.

LED indicates yellow.

There are two type of scan.

Main channel scan (manual): The radio scans all channels in scan list/group. Enter into scan, according to different settings, your radios will auto start from the last scanned "activated channel/talk group" or initiate scan channel.

Auto scan(auto): You can select one channel/group which already programmed as auto scan, and the radio scans start from this auto scan channel.

Nuisance channel delete

When scan remain one channel, press the programmed nuisance channel key, the radio will continue scan next channel, and will not scan this channel afterward. But when the scan function closed and then opens the scan function, the radio will resume scan this channel .

ADVANCED OPERATION

Start and stop scanning

Press programmed scan key or use the channel knob to select one auto scan channel when scan activated, LED indicator flashing yellow, you can hear a confirm tone.

When scanning stop, LED indicator Extinguish and a alarm tone heard.

Dual priority channel scan

When set up one priority channel, activated the priority scan function, such scan use Cyclic scan mode, it always scans the priority channel during each common scan.

In time of scan, response the transmission scan.

The radio remain in the activated channel/group.

The time of the radio keep in this channel mean "Scan hold time"

1. Hold the radio and keep 1-2 inch (2.5-5cm) distance with your mouth

If "CH free indication " was enabled, you will hear the short beep tone when your partner release PTT, it means the channel is free and wait for your response.

2. In the scan hold time, press PTT the LED indicates red You hear the Call permit tone (if enable) and speak to the speaker

Release PTT to receive

If you don't response in the hold time, the radio back to scan other channels/talk group.

Setting

Set squelch level

You can adjust the squelch level, filter low signal useless calling or background noise higher than normal value channel.

Default Setting: Normal squelch

Press preset "tight/normal squelch" key

You can hear one confirmation tone which means the radio in the status of strong squelch, or you will hear a negative tone which mean in weak squelch.

Set power level

You can set each channel to be high or low power

Setting: high power to communicate with long distance,

ADVANCED OPERATION

low power work with short distance

Press preset "high/low power" key.

You may hear one confirmation tone which means it transmits in low power, otherwise in high power.

VOX function

This function enables you hands-free calling in the preset channel, regardless when the VOX accessories detect voice or not, the radio will automatically send signal during the preset time.

If you press PTT key, the VOX function will be deactivated.

To activate the VOX function:

Power off and then power on the radio, change channel or execute the following procedure.

Caution:

Enable or disable this feature only limit to activate this feature radio.

press the preset "VOX on/off" side key to turn on/off this function.

If "Call permit tone" activated, you can use one touch

access key to send the calling. You hear the Call permit tone (if enable) and speak to the microphone.

Voice tone/announcement

If necessary, you can open/close all voice tone or alert tone (except for emergency alarm)

Press the preset "all alert tone on/off" key

You may hear one confirmation tone, which means all voice and alert function open, otherwise all closed.

Battery power indicator

You can check the battery power strength

Setting: LED indicator lights red means battery is

charging, and light green means fully charged.

Press the programmed battery power indicator side key to hear the beep tone to check the battery power strength, when battery is very low sound DI LING DI LING prompt alert ,when the battery power is high, sound three beep tones, when battery power is middle, sound two beep tones, when battery power is low, sound one beep tone.

ADVANCED OPERATION

DTMF signaling setting

DTMF receive/transmit signaling have four systems (preset by software),and it can set 32 groups encoder. Each group can set 30 characters.

Decoder: called party can set the decode response type by software,as following:

Kill: A priority user can completely disable or "kill" a radio in the fleet, preventing communication completely on compromised radios.

Activate: A killed radio can be revived by a priority user through the use of the Revive command.

Recording function

1. Recording function On/Off

Press(or hold on) specify programmable button,turn on/off recording function,radio can record the channel communication contents.

2. Recording playback(only in digital mode)

Press(or hold on) specify programmable button,turn on recording playback function,radio can playback the

channel communication contents.

3. Delete all recording

Press(or hold on) specify programmable button,turn on all recording delete function,radio can delete all recording of channel communication contents.

FCC Statement:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

—Reorient or relocate the receiving antenna.

—Increase the separation between the equipment and receiver.

—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

—Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.