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EC148U120



EVX-Z69-G6-4

用户操作手册 User's Manual



PROGRAMMABLE FUNCTIONS/FEATURES

- 32x16 Channels
- Four Programmable Function Keys
- DTMF Signaling
- Text Message
- Lone work
- Talk Around
- VOX
- Emergency Alert
- Remote Control (Digital only)
- Selective Call

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Congratulations!

You now have at your fingertips 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 negligible 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-Z69 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 licensed 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-Z69. After reading this manual, you may wish to 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

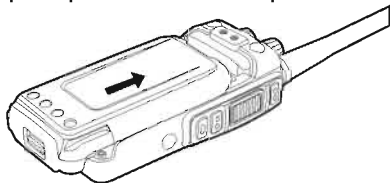
approved accessories. Transmitting 50% of the time, or less, is important because this radio generates measurable RF energy exposure only when transmitting (in terms of measuring for standards compliance). The radio is transmitting when the red LED on the top of the radio is illuminated.

- 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.



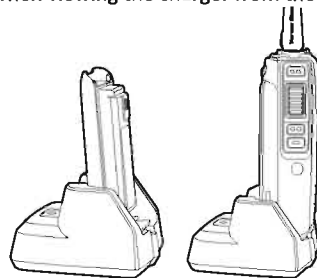
- To remove the battery, turn the radio off and remove any protective cases. Slide the Battery Pack Latch on

⚠ 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.



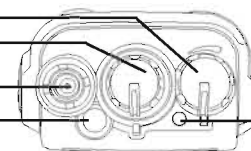
BEFORE YOU BEGIN

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

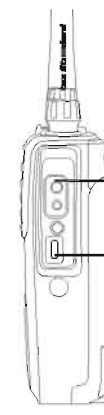
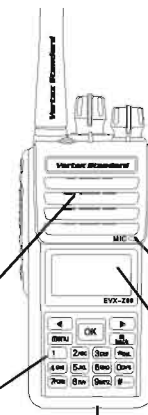
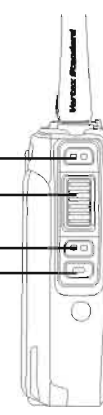
Blinking Red: Low Battery Power

SIDE-1 Button

PTT Switch

SIDE-2 Button

SIDE-3 Button



Speaker

Keypad

Battery Pack Latch

LCD

Microphone

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/Micro-phone, we recommend that it not be connected until you are familiar with the basic operation of the EVX-Z69. 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 Program-mable 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.



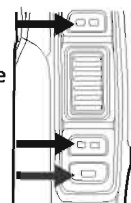
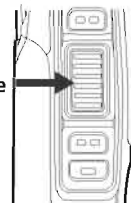
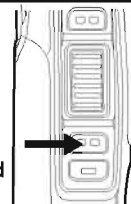
Press (or press and hold) the Programmable key again to quiet the noise and resume normal (quiet) monitoring.

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

Press and hold the PTT switch.

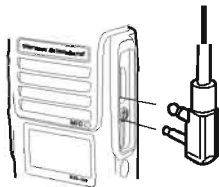
Speak into the microphone area of the front panel grille in a normal voice level. To return to the Receive mode, re-lease the PTT switch.

- 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 re-garding 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-Z69) 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-Z69 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)	/	/	/	/
Manual Dial for Private	/	/	/	/

1.Receive and make a call

Zone selection

Zone is a group of channel. EVX-Z69 supports 32 zones and no more than 16 channels for each zone.

1. Press [Menu] to enter menu mode.
2. Press [◀ or ▶] to choose zone and press [OK].
3. LCD displays current zone with a tick .
4. Press [◀ or ▶] to choose zone need to switch, and press [OK].
5. LCD displays selected zone and back to main screen.

Channel /User ID/ Group ID selection

Rotate the channel knob to choose channel ,User alias, ID and Group alias/ ID

Receive and reply group call

When radio receive want to receive group call, it need to configure to this group.

When receiving group call:

1. LED indicator turns green.
2. LCD displays transmitter's user ID or alias, and RSSI

ADVANCED OPERATION

icon.(Digital only)

3. Press [PTT] key to reply this group call, and LED indicator turns red.
4. Release [PTT] to listen.
5. If no voice activity in preset time, group call will be terminated.

Receive and reply private call

Private call is one radio make a call to one other radio.

Press side buttons to start make a private call.

When receiving private call:

1. LED indicator turns green.
2. LCD displays transmitter's user ID or alias, and RSSI icon.(Digital only)
3. Press [PTT] key to reply this private call, and LED indicator turns red.
4. Release [PTT] to listen.
5. If no voice activity in preset time, private call will be terminated.

Receive and reply all call

All call is one radio make a call to all other radios. Press side buttons to start make a all call.

When receiving all call:

1. LED indicator turns green.
2. LCD displays all call and RSSI icon.(Digital only)

Note: When receiving all call, if you switch to other channel and radio will stop to receive this all call.

Make a call

You can use below methods to choose one channel, User ID or Group to make a call.

Channel knob

Preset side buttons with private call function

Contacts list

Manual dial number (only to private call)

Use channel knob to make a call

Group call

1. Rotate channel knob to select one user ID and channel.

ADVANCED OPERATION

2) Press [PTT] to make a group call, and LCD display user alias or ID.

3) If no voice activity in preset time, private call will be terminated.

Private call

1. Rotate channel knob to select one user ID and channel.

2. Press [PTT] to make a private call, and LCD display user alias or ID.

3. Release [PTT] to listen, and when other radio reply, LCD will display its user alias or ID and private call icon.

4. If no voice activity in preset time, private call will be terminated.

All call

1. Rotate channel knob to select one all call channel.

2. Press [PTT] to make a private call, and LCD display all call and icon.

Use one touch access to initiate group call or private call

One touch access you to make a group call or private call to predefined ID or contact person conveniently.

This feature can add to short press or long press side button to initiate. You can assign one ID or predefined contact person to one touch access.

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 receive unit and that unit alarm.

Silent With Voice:

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

CHARACTER INPUT

You can use 3x4 alphabet keypad to access the radio function. Using the keyboard to input user name or ID and text messages. Some characters need to press one key many times. Below list shows the character that need to key many times.

key	1 2 3 4 5 6 7 8 9 10 11 12 13
1	1 . , ? ! @ & ' % - : * #
2	A B C 2
3	D E F 3
4	G H I 4
5	J K L 5
6	M N O 6
7	P Q R S 7
8	T U V 8
9	W X Y Z 9
0	0
*	Delete
#	Space

Menu setting

1. Press [MENU] to enter menu mode.

2. Press [OK] to choose one function or enter one submenu.

3. Press [BACK] to return above level menu.

Note: If no activity for a while, radio will automatically exit menu and return main screen.

MENU FUNCTION AND SETTING

Contacts book setting

Contacts book provide address list for the radio.

Each list corresponds to an alias or ID used to start the call.

Each list shows below information:

- Check radio ID
- User name edit(private call ID only)
- ID edit(private call ID only)

Note: You can use digital contacts book list to add user ID.

Use contacts book to activate Group call

1. Press [MENU] to enter menu mode.
2. Press [◀ or ▶] to choose contacts book, and press [OK].
3. Press [◀ or ▶] to choose contacts list, and press [OK] to choose.
4. Press [◀ or ▶] to choose desired user ID group or ID.
5. Press [PTT] key to activate call, and release PTT to listen. If one user in group to response, LED indicator will turn green. You will see Group icon on radio screen.

Use contacts book to activate private call

1. Press [MENU] to enter menu mode.
2. Press [◀ or ▶] to choose contacts book, and press [OK].
3. Press [◀ or ▶] to choose contacts list, and press [OK] to choose.
4. Press [◀ or ▶] to choose desired user ID or dial the ID number manually.
5. Press [PTT] key to activate call, and release PTT to listen. LCD displays User Name or ID and private call icon.
6. Release [PTT] key to listen. If one user to response, LED indicator will turn green and display this user's ID. If no activity during the preset private call period, the call will be terminated.

CALL LOG FUNCTION

EVX-Z69 will record all the dialed, received, missed private call. You can use call log function to check and manage recent call log.

Check the latest Call ID

1. Press [MENU] to enter menu mode.
2. Press [◀ or ▶] to call log function, and press [OK].
3. Press [◀ or ▶] to choose desired list, and then press [OK].
4. LCD displays the recent call log on the top of list.
5. Press [◀ or ▶] to check the user in the list.

Restore missed user alias or ID in call list.

1. Press [MENU] to enter menu mode.
2. Press [◀ or ▶] to call log function, and press [OK].
3. Press [◀ or ▶] to choose missed call, and then press [OK] to choose.
4. Press [◀ or ▶] to choose missed call list, and then press [OK] to choose.
5. Press [◀ or ▶] to missed user alias or ID, and then press [OK] to choose.

6. Press [◀ or ▶] to restore, and press [OK].

7. LCD display blink icon, input this ID alias if needed, and then press [OK].

8. LCD shows call ID has been restored. You can also input ID without alias.

Delete the call in call log

1. Press [MENU] to enter menu mode.
2. Press [◀ or ▶] to call log function, and press [OK].
3. Press [◀ or ▶] to choose desired call list, and then press [OK] to choose.
4. Press [◀ or ▶] to desired user alias or ID, and then press [OK] to choose.
5. Press [◀ or ▶] to delete the item, and then press [OK] to choose and delete this item. Choose "YES" and press [OK] to delete this item, LCD shows this item has been deleted. Or choose "NO" and press [OK] to return.

TEXT MESSAGE

EVX-Z69 can receive/send the message from/to other radio.

Note: you can press [BACK] key anytime to return the previous LCD display.

Edit and send the message

1. Press [MENU] to enter menu mode.
2. Press [◀ or ▶] to message, and then press [OK] to choose.
3. Press [◀ or ▶] to write message, and then press [OK].
4. LCD shows blink icon. Use keypad to write message, and Press ▶ to move right, Press ◀ to move left. Press key add space. Press [*DEL] key to delete the character.
5. After message created, and press [OK] key to send or restore.
6. Choose send the message and Press [◀ or ▶] to desired user alias or ID, then press [◀ or ▶]. To address list, press [OK] to send. Or press [◀ or ▶] to manually dial the number, and press [OK].
7. LCD shows message sending icon:< User/Group alias or ID>, and confirm to send the message.

8. After message has been send, radio will make a tone and LCD shows message was send.

Send quick text message

EVX-Z69 can store quick text message preset by programming software: when choose the preset message, you can edit this message before sending this message.

1. Press [MENU] to enter menu mode.
2. Press [◀ or ▶] to message, and then press [OK] to choose.
3. Press [◀ or ▶] to quick text message function, and then press [OK].
4. Press [◀ or ▶] to quick text message, and then press [OK].
5. LCD shows blink icon, if needed, use keypad to edit short text message. and Press ◀ to move right, Press ▶ to move left. Press key add space. Press [*DEL] key to delete the character.
6. After message created, and press [OK] key to send or restore.

TEXT MESSAGE

7. Choose send the message and Press [◀ or ▶] to desired user alias or ID, then press [◀ or ▶]. To address list, press [OK] to send. Or press [◀ or ▶] to manually dial the number, and press [OK].
8. LCD shows message sending icon:< User/Group alias or ID>, and confirm to send the message.
9. After message has been send, radio will make a tone and LCD shows message was send. You can also use side key to send one preset message to one preset User alias or ID.

Manage send message

Once one message was sent to other radio, and it will store to "SEND BOX". When "Send box" is full, the next message will replace the earliest message in the file.
Note: you can press [BACK] key anytime to return the previous LCD display.

Check and send the message

1. Press [MENU] to enter menu mode.
2. Press [◀ or ▶] to message, and then press [OK] to

choose.

3. Press [◀ or ▶] to "SEND BOX", and then press [OK] to choose send list.
4. Press [◀ or ▶] to user alias or ID, and then press [OK] to choose message context and press [OK] again.

Send the sent items

When check the sent message, you can choose below item function:

- resend
- forward
- edit
- delete

Resend the message

1. Press [OK] to resend one message to the same user/group alias or ID.
2. After message has been send, radio will make a tone and LCD shows message was send.

Forward the message

Choose forward message to send other user/group alias

TEXT MESSAGE

or ID.

1. Press [◀ or ▶] to forward ,and then press [OK] to choose.
2. Press [◀ or ▶] to desired user alias or ID, then press [◀ or ▶] to send , or press [◀ or ▶] to manually dial the number, and press [OK].
3. LCD shows message sending icon:< User/Group alias or ID>, and confirm to send the message.
4. After message has been send, radio will make a tone and LCD shows message was send.

Edit the message

1. Press [◀ or ▶] to edit message, and then press [OK].
2. LCD will shows one blink cursor, and use keypad to edit the message, and Press▶to move right, Press ◀ to move lift. Press key add space. Press [*DEL] key to delete the character.
3. After message created, and press [OK] key to send or restore.
4. Choose send the message and Press [◀ or ▶] to

desired user alias or ID, then press [◀ or ▶].

To address list , press [OK] to send. Or press [◀ or ▶] to manually dial the number, and press [OK].

5. LCD shows message sending icon:< User/Group alias or ID>, and confirm to send the message.
6. After message has been send, radio will make a tone and LCD shows message was send.

Delete the message

Delete the selected message.

1. Press [◀ or ▶] to delete message, and then press [OK].
2. Press [◀ or ▶] to choose "YES" ,LCD shows this message has been delete .Or to choose "NO" to return the send list.

Delete all messages in "SEND ITEMS"

1. Press [MENU] to enter menu mode.
2. Press [◀ or ▶] to message, and then press [OK] to choose.
3. Press [◀ or ▶] to "SEND ITEMS", and then press[OK].
4. Press [◀ or ▶] to choose all delete.

TEXT MESSAGE

5. Press [OK] to choose "YES", and LCD display "SEND ITEMS" is empty. Or press [◀ or ▶] to choose "NO" and press [OK] to return the previous screen.

Receive the message

When radio receive the message, LCD shows the sender's ID or alias.

When receiving the message, you can choose the below items:

- Check
- later check
- delete

Check or delete the message

1. Press [◀ or ▶] to check the message, and then press [OK] to choose.
2. Open the selected message in "BOX", and press [OK] to return.
3. Press [◀ or ▶] to check or delete.

Manage the received message

Use "IN BOX" to manage the message. The radio supports

below message items:

- Reply
- Forward
- Delete
- All delete

Store the message in "INBOX" according to the recent received message.

Note: you can press [BACK] key anytime to return the previous LCD display.

Check the message in "INBOX"

1. Press [MENU] to enter menu mode.
2. Press [◀ or ▶] to message, and then press [OK] to choose.
3. Press [◀ or ▶] to "INBOX", and press [OK].
4. Press [◀ or ▶] to choose "INBOX" list.
5. Press [◀ or ▶] to the desired alias, and then press [OK] to choose the message context.
6. Press[OK] to reply, delete or forward this message.

Unread message will use (!) to display.

TEXT MESSAGE

Reply the message in "INBOX"

1. Press [MENU] to enter menu mode.
2. Press [◀ or ▶] to message, and then press [OK] to choose.
3. Press [◀ or ▶] to "INBOX", and press [OK].
4. Press [◀ or ▶] to choose "INBOX" list.
5. Press [◀ or ▶] to the desired alias, and then press [OK] to choose the message context.
6. Press [OK] again to enter the submenu.
7. Press [◀ or ▶] to choose reply, and then press [OK].
8. Press [◀ or ▶] to write the message, and press [OK] and shows blink cursor, use the keypad to edit message. Press [◀ or ▶] to quick message, and then press [OK].
9. After message created, and press [OK] to choose send and press [OK].
10. LCD shows message sending icon:< User/Group alias or ID>, and confirm to send the message
11. After message has been send, radio will make a tone and LCD shows message was send.

Delete the message in "INBOX"

1. Press [MENU] to enter menu mode.
2. Press [◀ or ▶] to message, and then press [OK] to choose.
3. Press [◀ or ▶] to "INBOX", and press [OK].
4. Press [◀ or ▶] to choose *INBOX* list, and then press [OK].
5. Press [◀ or ▶] to the desired alias, and then press [OK] to choose the message context.
6. Press [OK] again to enter the submenu.
7. Press [◀ or ▶] to delete, and then press [OK].

Delete all messages in "INBOX"

1. Press [MENU] to enter menu mode.
2. Press [◀ or ▶] to message, and then press [OK] to choose.
3. Press [◀ or ▶] to "INBOX", and then press [OK].
4. Press [◀ or ▶] to choose all delete. Press [OK] to choose "YES", and LCD display "INBOX" is empty. Or press [◀ or ▶] to choose "NO" and press [OK] to return the previous screen.

DTMF SIGNALING SETTING

DTMF receive/send signaling has four systems and it can set 32-group encoders. Each group can set 30 characters. Decoder: the designated radio can programmed by the following decoder function.

Kill: when radio received the kill code, it will stop receive/transmit.

Activate: When radio in stun mode, if this radio receive the revive command, it will return the normal mode.

SCAN

EVX-Z69 can create scan list to designate the channel or group. Radio supports 250 scan lists and each list contains 32 channel numbers. Each scan list support analog and digital radio channel mode. You can use scan list edit to add/delete channel or set the priority scan channel.

Check the channel number in scan list

1. Rotate the channel knob to choose the preset channel which has scan list.
2. Press [MENU] to enter menu mode.
3. Press [◀ or ▶] to scan, and then press [OK] to choose.
4. Press [◀ or ▶] to scan list, and then press [OK] to choose.
5. Press [◀ or ▶] to check each channel number in scan list.

If it has set the priority channel, and priority icon will show on the left side of the channel.

Scan indicator and method

When you activate the scan function, your radio will

SCAN

loop scan through the channel list to check if there is any voice activity on the current channel. LED indicator will shows orange and display on the screen.

Manual scan: Press preset side key to activate/close scan function and radio will scan all the channel in scan list.

Auto scan: when rotate the channel knob to the preset auto scan channel, radio will activate the auto scan function from the current channel.

Activate or stop scan

Press the preset side button or use menu mode to enter scan function.

1. Rotate the channel knob to choose the preset channel which has scan list.
2. Press [MENU] to enter menu mode.
3. Press [◀ or ▶] to scan, and then press [OK] to choose.
4. If scan has been stopped, LCD display scan close or if it activated, and then shows open.
5. Press [OK] to choose;

6. If scan has been activated, LED indicator shows orange and scan icon. If scan has been closed, LED indicator light puts out and scan icon.

Reply scan

Radio will check the channel when scanning and time stop by the current channel called "scan hold time".

1. Hold the radio in vertical position with the microphone at least 1 inch to 2 inch(2.5cm to 5cm) away from your mouth.
2. Press [PTT] key during the scan hold time, LED indicator will turn red.
3. Release [PTT] to listen.
4. If you don't response during the scan hold time, radio will continue to scan the following channel.

UTILITES

Lock /unlock the keypad

You can lock the radio keypad to prevent accidental channel change or inadvertent transmission.

1. Press [MENU] to enter menu mode.
2. Press [◀ or ▶] to utilites, and then press [OK] to choose.
3. Press [◀ or ▶] to radio setting, and then press [OK] to choose.
4. Press [◀ or ▶] to keypad lock, and then press [OK] to choose.
5. LCD shows keypad has been locked and return the main screen.
6. Unlock the keypad by press [OK] and then press [*DEL].
7. LCD shows keypad unlock and return the main screen.

Open/close the keypad tone

EVX-Z69 can activate or stop keypad tone if needed.

1. Press [MENU] to enter menu mode.
2. Press [◀ or ▶] to utilites, and then press [OK] to choose.
3. Press [◀ or ▶] to radio setting, and then press [OK] to

choose.

4. Press [◀ or ▶] to tone, and then press [OK].
 5. Press [◀ or ▶] to choose keypad tone, and press [OK].
 6. Press [◀ or ▶] to open the keypad tone, and press [OK] to activate keypad tone.
- Or Press [◀ or ▶] to close the keypad tone, and press [OK] to close keypad tone.

Set squelch level

Normal level is the lowest squelch. Tight level is the highest squelch.

1. Press [MENU] to enter menu mode.
2. Press [◀ or ▶] to utilites, and then press [OK] to choose.
3. Press [◀ or ▶] to radio setting, and then press [OK] to choose.
4. Press [◀ or ▶] choose to squelch level, and press [OK] to confirm.

Set power level

You can set the TX power high/low level for each channel.

UTILITES

Setting: High level power for relatively long distance transmission and low level power for relatively close distance transmission.

1. Press [MENU] to enter menu mode.
2. Press [◀ or ▶] to utilites, and then press [OK] to choose.
3. Press [◀ or ▶] to radio setting, and then press [OK] to choose.
4. Press [◀ or ▶] to power, and then press [OK].
5. Change current setting according to the screen display.
6. Press [OK] to choose the desired power level.

Press [BACK] return to the main screen, LCD shows the power level icon.

Set LCD Backlight

EVX-Z69 can activate or close LCD backlight if needed.

1. Press [MENU] to enter menu mode
2. Press [◀ or ▶] to utilites, and then press [OK] to choose.
3. Press [◀ or ▶] to radio setting, and then press [OK] to choose.
4. Press [◀ or ▶] to backlight, and then press [OK] to

choose.

5. LCD shows open. Press [OK] to activate backlight.

Or LCD shows close and press [OK] to close backlight.

If close the backlight, LCD and keypad will close the light.

Talk around

When radio out of repeater range or repeater don't work, if you want to continue communication by using talk around function. The channel need to set allow Talkaround function. Press preset side button to switch repeater or simplex mode.

1. Press [MENU] to enter menu mode.
2. Press [◀ or ▶] to utilites, and then press [OK] to choose.
3. Press [◀ or ▶] to radio setting, and then press [OK] to choose.
4. Press [◀ or ▶] to talk around, and then press [OK] to choose.
5. If radio in repeater mode, LCD shows open. Or if radio in simplex mode, LCD shows close.
6. Press [OK] to choose.

UTILITES

Open/Close radio tone

EVX-Z69 can activate or close radio tone if needed.

(Except for EMERGENCY CALL TONE)

1. Press [MENU] to enter menu mode.
2. Press [◀ or ▶] to utilites, and then press [OK] to choose.
3. Press [◀ or ▶] to radio setting, and then press [OK] to choose.
4. Press [◀ or ▶] to radio tone, and then press [OK] to choose.
5. Press [◀ or ▶] to open all tone, and press [OK].
Press [◀ or ▶] to choose open/close, and press [OK] to activate/close all tone/indicator.

Language switch

EVX-Z69 can switch radio language setting if needed.

1. Press [MENU] to enter menu mode.
2. Press [◀ or ▶] to utilites, and then press [OK] to choose.
3. Press [◀ or ▶] to radio setting, and then press [OK] to choose.

4. Press [◀ or ▶] to language, and then press [OK] to choose.

5. Press [◀ or ▶] to choose English or Chinese language display, and then Press [OK].

Open/Close LED indicator

You can activate or close radio LED indicator if needed.

1. Press [MENU] to enter menu mode.
2. Press [◀ or ▶] to utilites, and then press [OK] to choose.
3. Press [◀ or ▶] to radio setting, and then press [OK] to choose.
4. Press [◀ or ▶] to LED indicator, and then press [OK] to choose.
5. Press [◀ or ▶] to choose open/close, and press [OK] to activate/close all LED indicator.

Open/Close Intro-screen

You can activate or close radio intro-screen if needed.

1. Press [MENU] to enter menu mode.
2. Press [◀ or ▶] to utilites, and then press [OK] to choose.
3. Press [◀ or ▶] to radio setting, and then press [OK] to

UTILITES

choose.

4. Press [◀ or ▶] to intro-screen, and then press [OK] to choose.
5. Press [◀ or ▶] to choose open/close, and press [OK] to activate/close intro-screen.

Power-on password Setting

You can set or close radio Power-on password if needed.

1. Press [MENU] to enter menu mode.
2. Press [◀ or ▶] to utilites, and then press [OK] to choose.
3. Press [◀ or ▶] to radio setting, and then press [OK] to choose.
4. Press [◀ or ▶] to radio Power-on password setting, and then press [OK] to choose. Default password is eight zeros.
5. Press [ok] and press [◀ or ▶] to change power-on password. Setting new power-on password and press [OK] to confirm. Press [OK] again and LCD shows Power-on password setting success.

Clock display

1. Press [MENU] to enter menu mode.
2. Press [◀ or ▶] to utilites, and then press [OK] to choose.
3. Press [◀ or ▶] to radio setting, and then press [OK] to choose.
4. Press [◀ or ▶] to radio clock, and press [OK] to choose.
5. Press [◀ or ▶] to choose time or date, and press [OK].
6. Press [OK] again to set current time or date. Press [OK] and LCD display stored time and date.

Access to radio information

EVX-Z69 contains below information:

- Radio ID
- Firmware
- CP version

Note: you can press [BACK] key anytime to return the previous LCD display.

Check radio ID

1. Press [MENU] to enter menu mode.
2. Press [◀ or ▶] to utilites, and then press [OK] to choose.
3. Press [◀ or ▶] to radio setting, and then press [OK] to

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choose.

4. Press [◀ or ▶] to check radio ID and then press [OK].
5. LCD shows radio ID and alias.**Check firmware version**
1. Press [MENU] to enter menu mode.
2. Press [◀ or ▶] to utilites, and then press [OK] to choose.
3. Press [◀ or ▶] to radio setting, and then press [OK] to choose.
4. Press [◀ or ▶] to check radio firmware and then press [OK].
5. LCD shows current firmware.

Check Codeplug version

1. Press [MENU] to enter menu mode.
2. Press [◀ or ▶] to setting, and then press [OK] to choose.
3. Press [◀ or ▶] to radio setting, and then press [OK] to choose.
4. Press [◀ or ▶] to check radio codeplug and then press [OK].

LCD shows current CP version.

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.

Set Channel Mode (Digital/Analog VFO)

1. Press [Menu] to enter menu mode.
2. Press [◀ or ▶] to setting, and then press [OK] to choose.
3. Press [◀ or ▶] to radio setting, and then press [OK] to choose channel mode.
4. Choose channel mode: MR, VFO A, VFO B.
5. After selected VFO mode, you can change operating frequency.

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 equipment should be installed and operated with minimum distance 0cm between the radiator& your body.

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

