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entry refers to an alias or ID that you use to make a call. Each contact will be connected with Group Call. Your radio can support at most 64 Contacts.

Each contact is provided with the following information:

- Call type
- Call alias
- Call ID

**Note:**

You can add or delete the user ID for the digital contact list.

### **View Contact List**

Procedure:

Press the user-defined [Contact] key to access contact list and proceed to step 4.

OR

Follow the steps below to access contact list.

1. Press [MENU] key or rotate [SELECT] button to access the menu.
2. Rotate [SELECT] button to select "Contact" and press [OK] key or press [SELECT] button.
3. Rotate [SELECT] button to select "Contact List" and

press [OK] key or press [SELECT] button.

4. Rotate [SELECT] button to choose the desired alias or ID and press [OK] key or press [SELECT] button.

5. Rotate [SELECT] button to select "Info" and press [OK] key or press [SELECT] button.

6. Display will show the information of a contact, such as name, number and attribute.

7. Press [BACK] key to return to the previous menu.

### **Add Contact**

Procedure:

Press the user-defined [Contact] key to access contact list and proceed to step 4.

OR

Follow the steps below to access contact list.

1. Press [MENU] key or press [SELECT] button to access the menu.
2. Rotate [SELECT] button to select "Contact" and press [OK] key or press [SELECT] button.
3. Rotate [SELECT] button to select "Contact List" and press [OK] key or press [SELECT] button.
4. Rotate [SELECT] button to choose the desired alias or ID and press [OK] key or press [SELECT] button.

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5. Rotate [SELECT] button to select "Add Contact" and press [OK] key or rotate [SELECT] button.
6. Display will show the information of a contact, such as name, ID number and attribute.
7. Rotate [SELECT] button to select "Name" and press [OK] key or press [SELECT] button.
8. When a blinking cursor appears, use the keypad of Microphone to type the name. Or Hold [#] key to change the input method, which will be shown at the top left side of the display. (at most 9 Characters) ("AB" it means you are able to type capital letters. "ab" it means you are able to input lowercase letters. "12" it means you are able to type numbers from 0 to 9. "PY" it means you are able to type Chinese with Pinyin method. )
9. Rotate [SELECT] button to move one space to the left or right.
10. Press [Delete] key to delete any unwanted characters or use the keypad of Microphone to type the name.
11. press [OK] key or press [SELECT] button to save the name.
12. It will return to the previous menu.
13. Rotate [SELECT] button to select "ID Number" and

- press [OK] key or press [SELECT] button.
14. When a blinking cursor appears, use the keypad of Microphone to type the ID number. ( at most 8 numbers.)
  15. Rotate [SELECT] button to move one space to the left or right.
  16. Press [Delete] key to delete any unwanted characters or use the keypad of Microphone to type the ID number.
  17. Press [OK] key or press [SELECT] button to save the ID number.
  18. It will return to the previous menu.
  19. Rotate [SELECT] button to select "Save Contact" and [OK] key or press [SELECT] button.
  20. The display will show "Contact saved"
  21. The display will return to the previous menu.

### **Note:**

You can save a contact only when name and ID number is inputted.

The call type of the added contact must be "Group Call".

### **Delete Contact**

#### **Procedure:**

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Press the user-defined [Contact] key to access contact list and proceed to step 4.

OR

Follow the steps below to delete contact.

1. Press [MENU] key or press [SELECT] button to access the menu.
2. Rotate [SELECT] button to select "Contact" and press [OK] key or press [SELECT] button.
3. Rotate [SELECT] button to select "Contact List" and press [OK] key or press [SELECT] button.
4. Rotate [SELECT] button to choose desired alias or ID of the the contacts as a private call and press [OK] key or press [SELECT] button.
5. Rotate [SELECT] button to select "Delete Contact" and press [OK] key or press [SELECT] button.
6. The display will show "Confirm to delete?"
7. Press [OK] key or press [SELECT] button to delete. Or press [Cancel] key to cancel.
8. The screen will return to the previous menu.

### Initiate a call from Contact

**Procedure:**

1. Press the user-defined [Contact] key. The contacts will be listed alphabetically.
2. Rotate [SELECT] button to choose the desired alias or ID.
3. Hold the Microphone vertically 2.5cm to 5cm (1 to 2 inches) from your mouth.
4. Press [PTT] key to initiate a call.
5. The display will show the alias or ID and the icon.
6. You can speak clearly into the microphone until the "Group Call Tone" ends (if it has been turned on.)

**OR**

You can initiate a call from menu.

1. Press [Menu] key or press [SELECT] button to access main menu.
2. Rotate [SELECT] button to choose the "Contact" and press [OK] key or press [SELECT] button.
3. Rotate [SELECT] button to choose the "Contact List" and press [OK] key or press [SELECT] button.
4. Rotate [SELECT] button to choose the desired alias or ID. (The contacts will be listed alphabetically.)
5. Hold the radio vertically 2.5cm to 5cm (1 to 2 inches) from your mouth.

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6. Press [PTT] key to initiate a call. The display will show the alias or ID and the icon.
7. You can speak clearly into the microphone until the "Group Call Tone" ends (if it has been turned on.)

### " Manual dial " to initiate a group call

#### Procedure:

1. Press [Menu] key or press [SELECT] button to access main menu.
2. Rotate [SELECT] button to choose the "Contact" and press [OK] key or press [SELECT] button.
3. Rotate [SELECT] button to choose the "Manual Dial" and press [OK] key or press [SELECT] button.
4. When a blinking cursor appears, use the keypad to type the ID number, for a maximum of 8 numbers.
5. Rotate [SELECT] button to move one space to the left or right.
6. Press [Delete] key to delete any unwanted characters.
7. Finish inputting.
8. Hold the Microphone vertically 2.5cm to 5cm (1 to 2 inches) from your mouth.
9. Press [PTT] key to initiate a call. The display will

show the alias or ID and the icon.

10. You can speak clearly into the microphone until the "Group Call Begin Tone" ends (if it has been turned on.)

### ■ Call Log

Your repeater will record all recent call. Users can use call log to view and manage the recent call activity.

◎ Users can perform the following tasks in call list:

- Check / View
- Talk time
- Delete
- Clear the list

### Checking the latest call activity

The list of calls are outgoing calls.

#### Procedure:

1. Press [Menu] key or press [SELECT] button to access menu.
2. Rotate [SELECT] button to select "Call Log" and press [OK] key or press [SELECT] button.
3. Rotate [SELECT] button to select "Outgoing calls"

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press [OK] key or press [SELECT] button.

4. Screen will display the most recent call log

5. Rotate [SELECT] button to select caller alias or ID.

- Hold the Microphone vertically 2.5cm to 5cm (1 to 2 inches) from your mouth.

- Press [PTT] key to make a call use the currently selected call alias or ID. The screen will display the call alias or ID as well as a call icon.

- Waiting for the "Group Call Begin Tone" to end (if enabled) then user can speak clearly into the microphone.

**OR**

- Press [OK] key or press [SELECT] button to access sub menu.

- Rotate [SELECT] button to select "Search"

- Press [OK] key or press [SELECT] button.

- The Screen displays the selected alias or ID number.

- Press [Back]key to return to the previous menu

**OR**

- Rotate [SELECT] button to select "Talk Time"

- Press [OK] key or press [SELECT] button.

- The screen displays the time and the duration of the call.

6. Press [Back] key to return to the previous menu

### **Clear Call Log list**

**Procedure:**

1. Press [Menu] key or [Select] knob to access menu.

2. Rotate [Select] knob select Call Log and press [OK] key or [Select] knob.

3. Rotate [Select] knob to select "*Clear the list*" and press [OK] key or [Select] knob.

4. Rotate [Select] knob to select outgoing calls. Then press [OK] Key or [Select] knob to confirm.

5. The screen displays the call log has been cleared.

6. The radio returns to the previous menu.

### **Attachment**

Users can view some general information from the attachment menu

**Note:**

- ◆ Some information of the radios only support to view if the radio with the optional functions.

### **View attachment information**

**Procedure:**

1. Press [Menu] key or [Select] knob to access menu.

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2. Rotate [Select] knob to select Attachment and press [OK] key or [Select] knob.
3. Rotate [Select] knob to select Date and press [OK] key or [Select] knob.
4. The display shows the current date.
5. Press [Back] key to return to previous menu.

### ■ GPS (optional)

You can choose to purchase the radio with GPS feature. GPS feature allows you to check or send your current longitude, latitude, time, date, altitude and speed etc data.

#### GPS ON/OFF

##### Procedure:

1. Press [Menu] key or [Select] knob to access menu.
2. Rotate [Select] knob to select GPS and press [OK] key or [Select] knob.
3. The display shows the available options of GPS.
4. Rotate [Select] knob to select desired option and press [OK] key or [Select] knob.
  - Rotate [Select] knob to select GPS On/Off and press

[OK] key or [Select] knob.

- Rotate [Select] knob to select GPS On and press [OK] key or [Select] knob.

- The display shows saved, when GPS is turned ON, the GPS icon will show on the display.

- Your radio returns to the previous menu.

##### OR

- Rotate [Select] knob to select GPS Off and press [OK] key.

- The display shows saved, when GPS is turned OFF, the GPS icon will disappear on the display.

- Your radio returns to the previous menu.

5. Press [Back] key to return to the previous menu.

#### View GPS Location

##### Procedure:

1. Press [Menu] key or [Select] knob to access menu.
2. Rotate [Select] knob to select GPS and press [OK] key or [Select] knob.
3. The display shows the GPS menu options.
4. Rotate [Select] knob to desired sub menu and press [OK] key or [Select] knob.

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- Rotate [Select] knob to select Location and press [OK] key or [Select] knob.
- The display shows the GPS information.
- Rotate [Select] knob to view GPS entries.
- Press [Back] key to return to the previous menu.

### Time-zone Position Calibration

#### Procedure:

1. Press [Menu] key or [Select] knob to access menu.
2. Rotate [Select] knob to select GPS and press [OK] key or [Select] knob.
3. The display shows the GPS menu options.
4. Rotate [Select] knob to select desired sub menu and press [OK] key or [Select] knob.
  - Rotate [Select] knob to select Time zone and press [OK] key or [Select] knob.
  - The display shows the Time zone menu.
  - Rotate [Select] knob to select Auto Aligning.
  - The display shows "Waiting"
  - Press [Back] key to cancel the auto calibration and return to the menu.

**OR**

- Rotate [Select] knob to select Manual Aligning .
  - The display shows Time zone lists.
  - Rotate [Select] knob to select current time zone entry and press [OK] key or [Select] knob.
  - The display shows the Calibration is complete.
  - The display returns to previous menu.
5. Press [Back] key to return to the previous menu.

#### Note:

- ◆ It might need some time for the auto aligning, please wait until "Waiting" to disappear.
- ◆ For the auto aligning, please adjust the time according to the local time.

### ■ Settings

If your dealer or system administrator allows you to set and check the radio basic operations and functions, you can set the following functions via menu.

© You can carry out the following tasks in settings under the menu:

- Equipment Information
- Parameter
- Zone

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- Date & Time
- Tone Setting
- Basic Setting
- Factory Restore
- Function Setting
- Signaling
- FM Decompression

### Parameter

If your dealer or system administrator allows you to set the radio, you can set the menu and other operation settings to set high/low power, time slot and voice landing.

### High / Low power

If it is allowed by dealer or system administrator, users can set the repeater high/low power through menu display, to enlarge the working distance.

#### **Note:**

- ◆ High power could ensure the communication with long-distance target radio.
- ◆ Lower power could sure the communication with short-distance target radio.

#### **Procedure:**

Press the preset [High/Low] key to switch the high/ low power.

#### **Or:**

Through the menu display to set the power level, as below:

1. Press [MENU] or [Select] knob key to access the menu.
2. Rotate [Select] knob to select Settings, and pres[OK] key or [Select] knob.
3. Rotate [Select] knob to select Parameter Setting, and press [OK] key or [Select] knob.
4. Rotate [Select] knob to select High/low power, and press [OK] key or [Select] knob.
  - Rotate [Select] knob to select High power, and press [OK] key or [Select] knob.
  - The display shows "saved" and returns to the previous menu.

#### **OR**

- Rotate [Select] knob to select Low power, and press [OK] key or [Select] knob.
- The display shows "saved" and returns to the previous



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menu.

5. Press [Back] key to return to the previous menu.

### **Time Slot and Voice Landing**

If it is allowed by dealer or system administrator, users can set and check the time slot through menu display.

#### **Procedure:**

1. Press [MENU] or [Select] knob key to access the menu.

2. Rotate [Select] knob to select Settings, and press [OK] key or [Select] knob.

3. Rotate [Select] knob to select Parameter Setting, and press [OK] key or [Select] knob.

4. Rotate [Select] knob to select Time slot, and press [OK] key or [Select] knob.

- Rotate [Select] knob to select Time slot 1, and press [OK] key or [Select] knob.

- The display shows Time slot saved, and returns to the previous menu.

#### **OR**

- Rotate [Select] knob to select Time slot 2, and press [OK] key or [Select] knob.

- The display shows Slot Saved and returns to the previous menu.

#### **OR**

- Rotate [Select] knob to select Time slot 1 & 2 On, and press [OK] key or [Select] knob.

- The display shows Time slot saved, and returns to the previous menu.

- Rotate [Select] knob to select Time slot 1 & 2 Off, and press [OK] key or [Select] knob.

- The display shows Time slot saved, and returns to the previous menu.

5. Press [Back] key to return to the previous menu.

### **Zone Setting**

A zone is a group of channels. Your radio supports up to 16 zones, with a maximum of 16 digital channels and 16 analog channels per zone.

### **Select a Zone**

If it is allowed by dealer or system administrator, users can set and check the zone information through menu display.

#### **Procedure:**

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Press the preset [Zone] key to choose a zone for the radio.

### OR

Follow the steps below.

1. Press the [Menu] key or [Select] knob or to access menu.
2. Rotate [Select] knob to select Setting, and press [OK] key or [Select] knob.
3. Rotate [Select] knob to select zone, and press [OK] key or [OK] knob.
4. There are the zone lists (16 zones at most).
5. Rotate [Select] knob key to select a desired zone in zone list and press [OK] key or [Select] knob.
6. The display shows "Zone Saved"
7. The radio returns to the home display.

### Note:

- ◆ The number and names of the zones in the list should be preset by your distributor or system administrator (there can be a maximum of 16 zones).
- ◆ The zone will be showed on the display after selected.

### Date & Time

If it is allowed by dealer or system administrator, users can set and check the date, time, and date format through menu display.

#### Procedure:

Setting the time,date and date display format.

Procedure:

1. Press [Menu] key or [Select] knob to access the menu.
2. Rotate [Select] knob to select Setting then press [OK] key or [Select] knob.
3. Rotate [Select] knob to select Date & Time then press [OK] key or [Select] knob.
4. Rotate [Select] knob to select the desired sub menu.
  - Rotate [Select] knob to select Date, and press [OK] key or [Select] knob.
  - The display shows year/month/day (depending on the date format).
  - Rotate [Select] knob and then input the date with keypad.
  - The display shows Date Saved when the date is set. Please press [Back] to return to the previous menu.

### OR

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- Rotate [Select] knob to select "Date Format" and press [OK] key or [Select] knob.
  - The display lists different date formats, Y/M/D, M/D/Y, D/M/Y.
  - Rotate [Select] knob to select the desired date format, and press [OK] key or [Select] knob.
  - The display shows "Date Format Saved" and returns to the previous menu.
5. Press [Back] key to return to previous menu.

### Prompt Tone

Users can set or check the prompt of the radio through the menu, if it is allowed by the distributor or system administrator.

You can set or check the prompt of following functions.

- Profiles
- Keytone
- Low Battery Alert
- Message Tone
- Private Call Tone
- Group Call Tone

### Profile Setting

There are 4 profiles available on your radio:

- Standard — turn on all prompts.
- Silent — turn off all prompts.
- Vibrate — vibrate but without prompts. (optional)
- Vibrate on Ring — vibrate with prompts on. (optional)

#### **Note:**

Those profiles with "-!-" are optional or not available at present.

#### **Procedure:**

1. Press [Menu] Key or [Select] knob to access the menu.
2. Rotate [Select] knob to select Settings, then press [OK] key or [Select] knob.
3. Rotate [Select] knob to select Prompt Tone, then press [OK] key or [Select] knob.
4. Rotate [Select] knob to select Profiles, then press [OK] key or [Select] knob.
5. Rotate [Select] knob to select the desired option.
  - Rotate [Select] knob to select Standard.
  - Press [OK] key or [Select] knob, the display shows Profile Saved. Please press [Back] to return to the

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previous menu.

### OR

- Rotate [Select] knob to select Silent.
- Press [OK] key or [Select] knob, the display shows "Profile Saved" Please press [Back] to return to the previous menu.

### OR

- Rotate [Select] knob to select Vibrate.
- Press [OK] key or [Select] knob, the display shows Profile Saved. Please press [Back] to return to the previous menu.

### OR

- Rotate [Select] knob to select Vibrate on Ring.
- Press [OK] key or [Select] knob, the screen shows "Profile Saved" Please press [Back] to return to the previous menu.

6. Press [Back] to return to the previous menu.

### Note:

- ◆ You cannot operate or set those profiles that are optional or not available.

### Keytone Setting

If it is allowed by dealer or system administrator, users can set and check the keytone operation through menu display.

#### Procedure:

1. Press [Menu] Key or [Select] knob to access the menu.
2. Rotate [Select] knob to select Settings, then press [OK] key or [Select] knob.
3. Rotate [Select] knob to select Prompt Tone, then press [OK] key or [Select] knob.
4. Rotate [Select] knob to select Keytone, then press [OK] key or [Select] knob.
5. Rotate [Select] knob to select the Keytone control, then press [OK] key or [Select] knob.

- Rotate [Select] knob to select On/Off, then press [OK] key or [Select] knob.

- Rotate [Select] knob to select ON, then press [OK] key or [Select] knob.

- Screen displays "saved"

- Then return to the previous menu.

### OR

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- Rotate [Select] knob to select OFF, then press [OK] key or [Select] knob.
- Screen displays "saved"
- Then return to the previous menu.

### OR

- Rotate [Select] knob to select keytone Volume, then press [OK] key or [Select] knob.
  - Rotate [Select] knob to select desired volume level, then press [OK] key or [Select] knob.
  - Screen displays "saved"
  - Then return to the previous menu.
6. Press [Back] to return to the previous menu.

### **Low battery alert**

If it is allowed by your dealer or system administrator, users could set or check the radio power strength prompt tone via menu screen.

### **Power strength tone setting**

If required, you could turn ON or OFF the low battery alert tone or control its volume.

Procedure:

1. Press [Menu] key or [Select] knob to access menu list.
  2. Rotate [Select] to select "Settings", then press [confirm] or [Select] .
  3. Rotate [Select] knob to select prompt tone set, then press [confirm] or [Select] .
  4. Rotate [Select] to select "power strength tone" then press [confirm] key or [Select] .
  5. Rotate [Select] to select a desired sub-menu, then press [confirm] key or [Select].
- Rotate [Select] to select "Low battery alert switch" then press [confirm] key or [Select] .
  - Rotate [Select] to select "ON" and then press [confirm] key or [Select] .
  - The screen shows "Alert Saved"
  - Screen will back to the previous menu
- Or
- Rotate [Select] to select "OFF" and then press [confirm] key or [Select] .
  - The screen shows "Alert Saved"
  - Screen will back to the previous menu.
- Or
- Rotate [Select] to select "Volume control" then press

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[confirm] key or [Select] knob.

- Rotate [Select] to select the desired volume level, and then press [confirm] key or [Select] knob.
  - The screen shows "Volume Saved"
  - Screen will back to the previous menu
6. Press [Back] to return to previous menu.

### **Message prompt tone**

If it is allowed by your dealer or system administrator, users could program or check message tone.

### **Message Tone Setting**

You can select the desired message tone (tone 1 - 5) showed when there is a message received.

Procedure:

1. Press [Menu] key or [Select] knob to access menu list.
2. Rotate [Select] to select "Settings", then press [confirm] key or [Select] knob.
3. Rotate [Select] knob to select prompt tone set, then press [confirm] key or [Select] knob.
4. Rotate [Select] to select "Message prompt tone" then

press [confirm] key or [Select] knob.

5. Rotate [Select] to select your desired sub-men, then press [confirm] key or [Select] knob.

- Rotate [Select] knob to select "Message tone switch" and then press [confirm] key or [Select] knob.
- Rotate [Select] to "ON" then press [Confirm] key or [Select] knob.
- Screen shows "Tone saved" note. And back to previous menu.

Or:

- Rotate [Select] to select "OFF" then press [Confirm] key or [Select] knob.
- Screen shows "Tone saved". And back to previous menu.

Or

- Rotate [Select] to select "Rings" then press [Confirm] key or [Select] knob.
- Screen will display all rings.
- Rotate [Select] to select a desired ring, then press [Confirm] key or [Select] knob.
- Screen shows "Ring saved" And back to previous menu.

6. Press [Back] to return to previous menu.

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### **Group call tone**

If it is allowed by your dealer or system administrator, users could program or check the group call tone types and activate or turn off the tone feature.

### **Group call tone & ring setting**

You can turn on or off group call tone when the radio transmit or receive the group call, and select the desired tone from tone 1 to tone 5.

Procedure:

1. Press [Menu] key or [Select] knob to access menu list.
2. Rotate [Select] to select "Settings", then press [confirm] key or [Select] knob.
3. Rotate [Select] knob to select prompt tone set, then press [confirm] key or [Select] knob.
4. Rotate [Select] to select "Group call tone" then press [confirm] key or [Select] knob.
5. Rotate [Select] to select a desired sub-menu, then press [confirm] key or [Select] knob.
  - Rotate [Select] to select "Group call switch" then press [confirm] key or [Select] knob.

- Rotate [Select] to select "ON" then press [confirm] key or [Select] knob.

- Screen shows "Set saved" and then back to previous menu.

Or

- Rotate [Select] to select "OFF" then press [confirm] key or [Select] knob.

- Screen shows "Set saved" and then back to previous menu.

Or

- Rotate [Select] to select "Ring type" and then press [confirm] key or [Select] knob.

- All rings types will be listed on screen. (There are total 5 types)

- Rotate [Select] to select a desired tone type, and then press [confirm] or [Select] knob

- Screen shows "Ring saved" and then back to the previous menu.

6. Press [Back] to return to previous menu.

### **Basic setting**

If permitted by your dealer or system administrator,

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users could set or check the call prompt tone via screen menu.

◎ Users can program or check the following basic functions:

- Language
- Key lock
- Backlight
- Version
- Display mode

### **Language**

If it is allowed by your dealer or system administrator, users could check or set their menu display language via screen menu.

#### **Language**

If required, users could choose one of preset language as their radio menu display language.

Procedure:

1. Press [Menu] key or [Select] to access menu list.
2. Rotate [Select] to select "Settings", then press [confirm] key or [Select] knob.
3. Rotate [Select] knob to select "Basic Setting" then

press [confirm] key or [Select] knob.

4. Rotate [Select] to select "Language" then press [confirm] key or [Select] knob.

5. All languages will be listed on screen.

6. Rotate [Select] to select a desired language, then press [confirm] key or [Select] knob.

7. Screen shows "Language saved" once operation completed, and back to previous menu.

8. Press [Back] to return to previous menu.

### **Key Lock**

If it is allowed by your dealer or system administrator, users could set or check the repeater key lock mode via screen menu, avoiding accident key input.

◎ Users could choose the following one mode to lock their keypads.

■ ON — If there is no operation within one minute, the keypad will be locked automatically.

■ OFF — When you want to lock keypad, press [Menu], and then press [\*] to lock.

**Procedure:**

1. Press [Menu] key or [Select] knob to access menu list.



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2. Rotate [Select] to select "Settings", then press [confirm] key or [Select] knob.
  3. Rotate [Select] knob to select "Basic Setting" then press [confirm] key or [Select] knob.
  4. Rotate [Select] to select "Key Lock" then press [confirm] key or [Select] knob.
  5. All key lock modes will be listed on screen.
  6. Rotate [Select] to select a desired mode, then press [confirm] key or [Select] knob.
    - Rotate [Select] to choose "ON" then press [confirm] key or [Select] knob.
    - Screen shows "Selected mode saved"
    - And then back to previous menu.
  - Or
  - Rotate [Select] to select "OFF" then press [confirm] key or [Select] knob.
    - Screen shows "Selected mode saved"
    - Screen back to previous menu.
  7. Press [Back] to return to previous menu.
- Note:**
- ◆ Press [confirm] key, and then press [\*] to unlock keypads.

### Backlight setting

If it is allowed by your dealer or system administrator, users could set or check the backlight mode for repeater screen, keypads and knobs via screen menu.

#### Backlight model and lightness

If required, you could choose the repeater screen and keypad backlight mode and lightness to suit for your working environment, and makes it better user-friendly..

☉ You could choose of the following modes for backlight:

- ON — the backlight remains solid on.
- OFF — Turn off backlight. ( Dim light status)
- Auto — the backlight will be off automatically when there is no operation for more than 1 minute. And it will light when you press the key or there is signal received

#### **Procedure:**

Press definable key [backlight switch], backlight will be switched between ON and OFF.

Or to operation via menu as below:

1. Press [Menu] key or [Select] knob to access menu list.
2. Rotate [Select] to select "Settings", then press [confirm] key or [Select] knob.
3. Rotate [Select] knob to select "Basic Setting" then

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press [confirm] key or [Select] knob.

4. Rotate [Select] to select "Backlight setting" then press [confirm] key or [Select] knob.

5. Rotate [Select] to select a desired sub-menu, then press [confirm] key or [Select] knob.

- Rotate [Select] to select backlight switch, and then press [confirm] key or [Select] knob.

- Screen shows all backlight modes.

- Rotate [Select] to select a desired backlight mode, and then press [confirm] key or [Select] knob.

- Screen shows "Selected mode saved" and then back to previous menu.

Or

- Rotate [Select] to select backlight lightness, and then press [confirm] key or [Select] knob.

- Rotate [Select] to select a desired lightness level, and then press [confirm] key or [Select] knob.

- Screen shows "Set saved" and then back to previous menu.

Or

- Rotate [Select] to select light switch, and then press [confirm] key or [Select] knob.

- Screen display all key light modes.

- Rotate [Select] to select a desired mode, and then press [confirm] key or [Select] knob.

- Screen shows "Selected mode saved" and then back to previous menu.

Or :

- Rotate [Select] to select light lightness, and then press [confirm] key or [Select] knob.

- Rotate [Select] to select a desired lightness level, and then press [confirm] key or [Select] knob.

- Screen shows "Set saved" and then back to previous menu.

6. Press [Back] key to return to previous menu.

### Version

If it is allowed by your dealer or system administrator, users could check your current repeater 担 version via screen menu.

### Checking Version

If required, you could check the relevant version for your current repeater.

Procedure:

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1. Press [Menu] key or [Select] knob to access menu list.
2. Rotate [Select] to select "Settings", then press [confirm] key or [Select] knob.
3. Rotate [Select] knob to select "Basic Setting" then press [confirm] key or [Select] knob.
4. Rotate [Select] to select "Version" then press [confirm] key or [Select] knob.
5. The radio version data will be displayed on screen.
6. Press [Back] to return to previous menu.

### **Display Mode**

If it is permitted by your dealer or system administrator, you could set or check the home screen display mode via screen menu.

#### **Selecting display mode**

© You could choose one of the following display mode:

- Channel No. & Name — Channel number and preset contact name will be displayed on screen.
- Channel No. & Freq — Channel number and frequency will be displayed on screen.
- Channel No. — Channel number to be displayed on

screen

© Procedure:

1. Press [Menu] key or [Select] knob to access menu list.
2. Rotate [Select] to select "Settings", then press [confirm] key or [Select] knob.
3. Rotate [Select] knob to select "Basic Setting" then press [confirm] key or [Select] knob.
4. Rotate [Select] to select "Display mode" then press [confirm] key or [Select] knob.
5. All display modes will be listed on screen.
6. Rotate [Select] to select a desired mode, and then press [Confirm] key or [Select] knob.
7. Screen shows "Set saved" and then back to previous menu.
8. Press [Back] to return to previous menu.

### **To restore factory default**

If it is allowed by your dealer or system administrator, users could set or check the factory default setting via screen menu.

#### **Restoring factory default operation**

If required, you could restore the current repeater's

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setting to factory default.

Procedure:

1. Press [Menu] key or [Select] knob to access menu list.
  2. Rotate [Select] to select "Settings", then press [confirm] key or [Select] knob.
  3. Rotate [Select] to select "Factory default" then press [confirm] key or [SELECT] knob.
  4. Screen shows "The operation can NOT be retrieved, are you sure to do?"
  5. Press [confirm] or [SELECT] knob to confirm to restore factory default.
    - Then screen back to previous menu.
- Or
- Press [Cancel] to cancel the current operation.
  - Screen back to previous menu.
6. Press [Back] to return to previous menu.

### **Function Setting**

You could program some common function via screen menu.

### **Wide / Narrow band**

If required, you could preset the working band (Wide/Narrow) for radio.

Procedure:

1. Press [Menu] key or [Select] knob to access menu list.
  2. Rotate [Select] to select "Settings", then press [confirm] key or [Select] knob.
  3. Rotate [Select] to select "Function setting" then press [confirm] key or [Select] knob.
  4. Rotate [Select] to select "Wide/Narrow band" then press [confirm] key or [Select] knob.
    - Rotate [Select] to select RX Wide/Narrow band, then press [confirm] key or [Select] knob.
    - Rotate [Select] to select RX Wide band, then press [confirm] key or [Select] knob.
- Or
- Rotate [Select] to select RX Narrow band, then press [confirm] key or [Select] knob.
  - Screen shows "Set saved", and back to previous menu.
  - Rotate [Select] to select TX Wide/Narrow band, then press [confirm] key or [Select] knob.
  - Rotate [Select] to select TX Wide band, then press

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[confirm] key or [Select] knob.

Or

- Rotate [Select] to select TX Narrow band, then press [confirm] key or [Select] knob.
  - Screen shows "Set saved" and back to previous menu.
5. Press [Back] to return to previous menu.

### **Signaling setting**

You could preset the repeater CTCSS or CDCSS under analogue mode via screen menu, to avoid useless signal interference.

### **CTCSS/CDCSS**

If required, you could preset the signaling type and code to prevent useless signal interference or activate repeater.

Procedure:

1. Press [Menu] key or [Select] knob to access menu list.
2. Rotate [Select] to select "Settings", then press [confirm] key or [Select] knob.
3. Rotate [Select] to select "Signaling Setting" then

press [confirm] key or [Select] knob.

4. Rotate [Select] to select a required "CTCSS/ CDCSS" then press [confirm] key or [Select] knob.

■ Rotate [Select] to select CDCSS, then press [confirm] key or [Select] knob.

Or

■ Rotate [Select] to select CTCSS, then press [confirm] key or [Select] knob.

5. Rotate [Select] to select TX code, then press [confirm] key or [Select] knob.

Or

■ Rotate [Select] to select RX code, then press [confirm] key or [Select] knob.

6. Rotate [Select] to select a desired code, then press [confirm] key or [Select] knob.

7. Screen shows "Set saved"

8. And then back to previous menu.

9. Press [Back] to return to previous menu.

#### **Note:**

◆ Repeater under analogue mode, only it will be activated when signaling preset.

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### **FM voice companding decode**

If required, you could preset voice processing type for TX and RX.

Procedure:

1. Press [Menu] key or [Select] knob to access menu list.
  2. Rotate [Select] to select "Settings", then press [confirm] key or [Select] knob.
  3. Rotate [Select] to select "FM voice companding decode" then press [confirm] key or [Select] knob.
  4. Rotate [Select] to select "FM companding decode" then press [confirm] key or [Select] knob
- Rotate [Select] to select "FM RX voice companding decode switch" and then press [confirm] key or [Select] knob.

Or

- Rotate [Select] to select "FM TX voice companding decode switch" and then press [confirm] key or [Select] knob.
5. Rotate [Select] to select ON or OFF, and then press [confirm] key or [Select] knob.
  6. Screen shows "Set saved" and then back to previous menu.

7. Press [Back] to return to previous menu.


#### **Note:**

- ◆ Once the FM voice companding to be set "ON" there may pops up some unclear sound or malfunction when working with other terminals.
- ◆ To compatible with other terminals better, we suggest to turn OFF the FM voice companding.

### **Scan**

If it is allowed by your dealer or system administrator, users could set or operate repeater scan mode via screen menu.

### **Scan ON or OFF**

Once scan is enabled, the radio will start scan cyclically to check if there is any activities in the channel under the scan list . Once the scan is ON, the LED will flash RED, and scan icon [  ] will be displayed on the top of screen.

When mixed modes (analogue and digital) channels under scanning, if your repeater stays on a digital

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channel, but repeater scans an analogue signal and locked on the channel, then the repeater will auto switch to analogue mode from digital mode during the calling duration, vice versa.

**Note:** once the scan activated, repeater may fail to transfer signal in time or miss some signals. Thus, please be careful on the feature.

### **Procedure:**

Press definable key [Scan Switch] to turn on or off the scan.

Or operate via screen menu as below:

1. Press [Menu] key or [Select] knob to access menu list.
  2. Rotate [Select] to select "Scan", then press [confirm] key or [Select] knob.
  3. Scan sub-menu will be listed out.
  4. Rotate [Select] to select "Scan" then press [confirm] key or [Select] knob.
  5. Scan lists will be listed out.
  6. Rotate [Select] to select a desired scan list, then press [confirm] key or [Select] knob.
- Rotate [Select] to select a "Start scan" then press [confirm] key or [Select] knob.

- Screen shows "Start scanning"


Or:

- Rotate [Select] to select "Scan OFF" then press [confirm] key or [Select] knob.

- Screen shows "Scan is OFF"

7. Then back to home screen.

### **Note:**

- ◆ Once scan activated, LED will be flashed, and scan icon [  ] will appear on the top of screen.

When scan to be turned off, LED will be off, too. And the icon will be disappeared.

### **Scan Mode**

If it is allowed by your dealer or system administrator, users could set and operate scan mode via screen menu.

### **Scan Mode setting**

If required, you could choose the processing way when receiving signal during scanning, after scan activated.

◎ There are three options for your choice;

CO (carrier) — Once radio receives a scanned signal over the air, it will stay on that channel until signal

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disappears, and then continue to scanning.

TO (Time) — Once the radio receives a scanned signal over the air, it will stay on that channel for a preset time. Once time is out, it will continue to scanning.

SE (Seek) — Once the radio receives a scanned signal over the air, it will stay on that channel and stop scanning until you re-activate to scanning

Procedure:

1. Press [Menu] key or [Select] knob to access menu list.
2. Rotate [Select] to select "Scan", then press [confirm] key or [Select] knob.
3. Scan sub-menu will be listed out.
4. Rotate [Select] to select "Scan mode" then press [confirm] key or [Select] knob.
5. All scan modes will be listed out.
6. Rotate [Select] to select desired scan mode, then press [confirm] key or [Select] knob.
7. Screen shows "Set saved" and back to previous menu.
8. Press [Back] to return to previous menu.

### Scan list

You could preset or create scan list and assign them to single channel or group via programming software. Then your repeater will scan the channel or group of scan list through cycle scan, to monitor if there is voice activity among them. Your repeater max supports 16 scan lists, and every list could contain 512 members at most. Every scan list supports both analogue and digital modes.

If it is permitted by your dealer or system administrator, you could program scan list add, delete channel or priority channel etc through screen menu.

### Scan list

Procedure:

1. Press [Menu] key or [Select] knob to access menu list.
2. Rotate [Select] to select "Scan", then press [confirm] key or [Select] knob.
3. Scan sub-menu will be listed out.
4. Rotate [Select] to select "Scan list" then press [confirm] key or [Select] knob.
5. All scan lists will be listed out.
6. Rotate [Select] to select a desired scan list, then press [confirm] key or [Select] knob.



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7. All channel number or name under the scan list will be listed out.

8. Rotate [Select] to check or select the scan list member.

- Press [confirm] key or [Select] knob
- Rotate ■ knob to select "Priority channel" or "Disable priority" or "Delete" option, and then Press [confirm] key or [Select] knob.
- Press [Back] to return to previous menu.

Or

- Rotate [Select] knob to choose "Add Channel" and then press [confirm] key or [Select] knob.
  - Screen shows all available channel number or members.
  - Press [confirm] key or [Select] knob to confirm to add to scan list.
  - Screen will back to previous scan list.
9. Press [Back] to return to previous menu.

