





USER'S MANUAL

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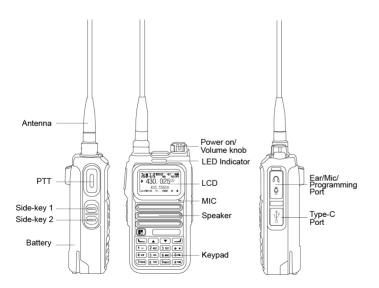
WARNING

Product safety and RF Exposure for two way radio:



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

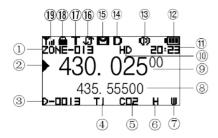
1.Radio Buttons & Knobs



Keypad Function

ICOM	FUNCTION			
PTT	Transmit the RF signal or exit the current operation interface.			
Side key 1	Define as PTT function			
	Customize long-press and short-press functions			
Side key 2	Customize long-press and short-press functions			
•	Menu, Confirm or DTMF: A			
	Analog mode: DTMF input mode or DTMF: B			
	Digital Mode: Dial-call mode			
	Cancel or exit menu			
 	Switch A/B channel			
	DTMF or Dial-call mode: Deleted characters			
	Adjust Up frequencies, channels or menus. DTMF: C			
lacksquare	Adjust Down frequencies, channels or menus. DTMF: D			
0	long press for defined function or DTMF code: 0			
	short press: number 0 or blank			
1	long press: defined function.			
-	DTMF code: 1			
	Text input: number 1/Chinese or English characters			
	short press: number 2-9			
2-9	long press: defined function.			
-"	DTMF code: 2-9			
	Text input: number 2-9/Chinese or English characters			
	Short press: switch channel number/channel+frequency/channel name			
*	Long press: lock keypad			
	DTMF code:*			
	Text input: delete text			
	Long press: switch channel mode/frequency mode/zone mode			
#	DTMF code: #			
	Text input: Turn text input on or off, switch text input methods.			

LCD Display



- 1.VFO MODE/CH MODE/Zone-XXX mode. XXX is current working zone.
- 2. meaning the main working band
- ${\it 3.D-XXXX} \ is \ digital \ channel, \ A-XXXX \ is \ analog \ channel, \ XXXX \ is \ channel \ number$
- 4.T1/T2 is digital channel time slot, AM/FM is modulation in analog channel
- 5.CXX is digital channel color code; CTC/DCS is analog channel subtone; ENC is analog channel Encrypted subtone, MUT is analog channel decoded subtone
- 6.H is high power; L is low power
- 7.W is wide band; N is narrow band
- 8.Sub channel information
- 9.Main channel information
- 10.HD is Digital call hold status
- 11.System Time
- 12.Battery level
- 13.Alert voice
- 14. Dual frequency standby
- 15.Unread SMS
- 16.Scanning
- 17.R is Reverse Frequency; T is Talk Around
- 18.Keypad locked
- 19.Signal icon

Settings

The settings include Basic Set, Key Define, Analog Set, Digital Set, Channel Set, Zone Set, Message, FM Radio, Time Manage

Menu	Sub Menu	Function		
Wenu	Sub Menu			
01 Radio Name	Edit name	Set radio name or callsign, Press * to delete		
		input, press # to select input method.		
02 Voice Prompt	On off	Turn on/off voice prompt.		
03 Key Beep	On off	Turn on/off keypad beep.		
04 Lock Timer	Off, 5s-600s	The time to lock keypad.		
05 Backlight	On off	Turn on/off display backlight.		
06 Light Timer	Off, 5s-600s	The time to Turn off the backlight.		
		Choose the brightness level of the		
07 Brightness	0-4 level	background light.		
08 Menu Exit	Off, 5s-600s	The time to exit menu.		
09 State Timer	Off, 5s-600s	Show voltage,time,date.		
10 Dual Standby On off		Select dual standby or single standby.		
44 TV - desite	Edit	Always transmit at main band.		
11 TX priority	Busy	Switch to busy channel as the main ban		
	0.25,1.25,2.5,5,			
	6.25,10,12.5,20,	Set the frequency or scan step		
12 Freq Step	25,50,100,500,	Set the frequency of scall step		
	1M,5M			
13 Talk Around	Off, Talk Around, Invert Freq	Set repeater mode or normal mode		
14 Save Mode Off,1:1-1:3		Set the power saving ratio, dual frequency standby mode without entering power-saving mode.		
15 Scan Mode CO		The walkie talkie stops scanning and remains at the same frequency when it detects a signal;Until the signal disappears. There is a 2-second delay between signal disappearance and scan recovery		

Menu	Sub Menu	Function		
		When the walkie talkie detects a signal,		
		it stops scanning and remains at the same		
	то	frequency. After preset tiem, the walkie		
15 Scan Mode	. •	talkie will continue scanning even if the		
		signal is still present.		
	SE	Upon detecting a signal, the walkie talkie		
		exits the scan and remains at this frequency		
16 Scan Direction	UP, DOWN	Set the scanning direction		
17 Scan Dwell	0-30	Set the scan stop time for TO scan mode		
40 C D-+	Original CH	Set the current channel after scanning		
18 Scan Return	Current CH	Set the current channel after scanning		
	Local	Radio emit the alarm sound		
19 Alarm Type	Remote	Radio emit the alarm sound and other radio		
19 Alailli Type		will receive the alarm tone.		
	Local+Remote	Both radios emit alarm sound		
00 M : DTT TV	Area A	Transmit in main area or always transmit		
20 Main PTT TX	Main Area	in A area		
	CH mode	Set the Channel mode, Frequency mode		
21 Area A Mode	Zone mode	or zone mode		
	Freq mode	of Zone mode		
	Show CH No			
22 Area A Show	Show Freq	Set the display way in the selected mode		
	Show Alias			
23 Area A Zone	Zone1-Zone256	Set the zone numbers		
	CH mode	Set the Channel mode, Frequency mode		
24 Area B Mode	Zone mode	or zone mode.		
	Freq mode			
25 Area A Show	Show CH No	Set the display way in the selected mode		

Menu Sub Menu		Function		
25 Area A Show	Show Freq			
	Show Alias	Set the display way in the selected mode		
26 Area B Zone	Zone1-Zone256	Set the zone numbers		
27 Save CH	CH-0001-	Save the frequency and tone into channels		
	CH-1024	Dave the frequency and tene into chamble		
28 Delete CH	CH-0001-	Delete the frequency and tone in this chan		
26 Delete CH	CH-1024			
29 Instruction	barcode	Scan barcode to get user manual		
30 Version Version info.		Show the version information		
		Display contrast, the higher the value, the		
31 LCD Contrast	Display contrast	deeper the contrast. After setting, a restart		
		is required		
32 Initialization	Cancel	Confirm or cancel the initialization		
52 milanzation	Ensure	Confirm of cancer the initialization		

Key Define

Menu	Sub Menu	Function	
Slaver PTT	On, off	Set the side key 1 as the PTT button	
Side key 1 S	None,		
Side key 1 L	Monitor(Ana)		
Side key 2 S	H/L Power		
Side key 2 L	Dual standby		
0 Press Long	Tx priority,		
1 Press Long	Scanning,		
2 Press Long	Backlight on/off		
3 Press Long	Roger beep		
4 Press Long	FM radio,		
5 Press Long	Talkaround		
6 Press Long	Alarm,	Set the side key 1, side key 2, Num0-9	
7 Press Long	Freq Detect	short press or long press	
8 Press Long	CTC/DCS scan	short press or long press	
	Single tone		
	Status query		
	Remote Monit		
	Color code scan		
9 Press Long	Remote Stun		
	Remote kill		
	Rmt Wake up		
	Online check		
	LCD brightness		
	Noaa mode		

Analog Set

Menu	Sub Menu	Function		
01 SQ level	0-10	Setting the squelch to off will open up the squelch entirely, Squelch is silences the receiver when there is no signal. The lower level is easier to interfere, and in the higher level, the sensitivity is not as good as lower tlevel, so It is best to set it to middle		
02 TX Start Tone	On, off	The tone before transmitting		
	Off, roger beep1			
03 TX End Tone	Roger beep2	The tone end transmitting or send radio name		
	Radio name			
04 Single Tone	1750Hz	Edit the tone frequency in Key Define		
05 Mic Gain	0-31	Adjusts the microphone sensitivity, the higher		
oo wiic caiii		the value, the higher the sensitivity.		
06 SPK Gain	0-63	Adjusts the speaker volume, the higher the		
		value, the higher the volume.		
07 Detect Range	Frequency range	Set the frequency range to detect frequency from other radios.		
08 Repeater Delay	0-2000ms	Set the repeater delay time.		
09 DTMF Delay	0-2000ms	Set DTMF delay time		
10 DTMF Interval	30-200ms	Set DTMF Interval time		
11 DTMF Duration	30-200ms	Set DTMF Duration Time		
12 DTMF Mode Off, Tx start, Tx end, Both		Set transmit the DTMF code		
13 DTMF Select	01-16	Select DTMF code 1-16		
14 DTMF Display	On,off	Turn on off display DTMF decode		
15 DTMF TX Gair 0-127		Set DTMF Transmit Gain		
16 DTMF RX TH	0-127	Set DTMF Receive threshold		
17 DTMF Control	On, off	Turn on off DTMF control		
18 Time Calibrate On, off		Remote Time Calibrate		

Digital Set

Menu	Sub Menu	Function	
01 Personal ID	00000001	Digital ID from 1-16776415	
02 Call Tone	On off	Turn on off call tone	
03 Call End Tone	On off	Turn on off call end tone	
04 Group Hold	0000	Set group call holding time	
05 Single Hold	0000	Set single call holding time	
06 SQ level	0-16	Set digital squelch level	
07 Mic Gain	0-15	Set Microphone Gain	
08 SPK Gain	0-15	Set speaker gain	
09 Contacts Set Contact list, add contract		Used to add/delete/change the contact information of the phone. There is one and only one All Call contact and it cannot be changed or deleted. Contact ID can be set range:1-16776415.	
10 Group List Set Group list set		Used to add/delete/change the receiver group list information of the unit, when editing the members of the group call list, use the key to select the members of the group call contact, the background of the selected member turns black, the key to deselect.	
11 Encryption Set Key 1-256		[Encryption Key Setting] is used to change the DMR voice encryption information of this unit.	

Channel Set

Menu	Sub Menu	Function	
O4 DMD Mada	Dual Slot off	Current Channel Enable or Disable DMR	
01 DMR Mode	Dual Slot on	Double Capacity Mode	
00 DMD 01-4	Slot 1	Colort the DNAD times also for the assument about a	
02 DMR Slot	Slot 2	Select the DMR time slot for the current channel	
03 Color Code	0 — 15	Select the color code of the current channel	
04 Contacts	All Call	Setting the call contact for the current channel	
05 DV 0	-"	Set the receive group call list for the current	
05 RX Group	off	channel	
06 Encryption	Off.Key1—256	Setting the current channel voice call key	
	Impolite	Transmits whether or not it is in the receive state	
	Carrier Match	The current channel is prohibited from	
		transmitting as long as there is a signal	
07 TX Politely	CC match	Prohibit transmitting only if the colour code	
		matches	
00 TV D	Low	Current shannel high and law transmit news	
08 TX Power	High	Current channel high and low transmit power	
09 Scan Add	Add, Remove	Add or remove to scan lists	
10 TOT	Off, 5s-600s	Set the time out timer	
11 CH Alias	Channel name	Edit the channel name	
40.0%4.Di-		Frequency difference direction of the current	
12 Offset Dir		channel	
13 Offset Freq	Offset freq	Set offset frequency	

Zone Set

There are 256 zone for setting, You may edit each zone name and zone channels, there are 1024 channel in each zone.

Message

Menu	Sub Menu	Function		
01 New SMS Edit message		Edit SMS message		
02 Inbox	Store SMS	Store SMS		
03 Outbox	Send SMS	Send SMS		
04 Drafts	Edit SMS draft	Edit SMS draft		
05 Default SMS	Preset SMS	Preset SMS		
06 Clear All SMS	Delete all SMS	Delete all SMS		

FM Radio

Menu Sub Menu		Function		
01 Work Mode CH mode, frequency		Set working mode		
02 RX Standby On off		Turn of off radio when rx mode		
03 Scan Mode One station,all range		Set the search mode		
04 Area FM radio zone		Set 16 channels in each zone		
05 Channel FM radio channels		Set 16 FM radio channels		

Time Manage

Menu	Sub Menu	Function	
01 APO On , off		Set auto power on/off	
02 APO Timer	Power off timer	Set power off timer	
03 System Time	System time	Adjust system time	
04 Clock 1 Type	Off,once,every day	Set clock 1 type	
05 Clock 1 Timer	Clock 1 timer	Set clock 1 timer	
06 Clock 2 Type	Off,once,every day	Set clock 2 type	
07 Clock 2 Timer	Clock 2 timer	Set clock 2 timer	
08 Clock 3 Type	Off,once,every day	Set clock 3 type	
09 Clock 3 Timer	Clock 3 timer	Set clock 3 timer	
10 Clock 4 Type	Off,once,every day	Set clock 4 type	
11 Clock 4 Timer	Clock 4 timer	Set clock 4 timer	
12 Schedule	List 1-128	Set the schedule	

Function Description

1.Frequency Input

Press # to frequency(VFO) mode, Enter the frequency value through the numeric keypad and accumulate 8 digits to complete the input operation.

2.Repeater frequency input

Go to menu Channel Setting 05 to set differ direction 12 and differ frequency 13

3.DMR voice encryption

This machine provides three optional encryption methods of ARCIAES128/AES256. Please note that if two devices with voice encryption set need to talk, three conditions must be satisfied at the same time, ① the same encryption type; ② the same serial number of the encryption key; ③ the same key value of the encryption key.

4. Dialing call

In digital channel, press $\$ key into dial interface. Via $\$ switch call type. Input call ID via keypad , and press PTT to send the call.

5 DTMF

- 5.1 DTMF Inputting and Sending
- ① press Leto enter int DTMF inputting interface while under analog channel.
- ② input DTMF code via keypads , and delete via __ ;
- ③ Press PTT to call, the device will send DTMF code to receiver after appointed delay time
- 5.2 While the device enter into analog receiving status, the display will show up the sender's DTMF code if turn on DTMF decoding.
- 5.3 Press keypads to send relative DTMF code while under analog transmitting status.

5.4 DTMF Remote Monitor

- ① Set up a DTMF Monitor code and turn on 【DTMF Control】
- ② other radios send DTMF code with same monitor code to this radio.
- ③ After decoding successfully, the radio will transmit for 60 seconds automatically to make remote monitor happen.

5.5 DTMF Stun/Kill/Activate

① set up a DTMF code for Stun/Kill/Activate, and turn on 【DTMF Control】

② Other radios will do Stun/Kill/Activate to this radio when they send relative DTMF code.

The radio cannot be use until receive activate code once it is in Kill status. The radio can receiving, but cannot input anything via keypad or transmitting once it is in Stun status.

Note:should set up Activate code once Stun/Kill code is set up, or the device cannot be activated.

6 Text Input

- 6.1 Press # to switch inputting methods, press * to delete inputting when under text input status.
- 6.2 Press number keys to input numbers
- 6.3 English Letters Inputting 【AB】 【abc】
- ① Number 2-9 can input relative English letters, press Number 0 to input space, Number 1 to input English symbols.
- ② Press same button to switch to different letters.

7 Function of Definable keys

[Monitor(Analog)] only available at analog channels. Enter into receiving and playing status once trigger this key.

[H/L Power] To switch high/low power of current channel.

[Dual Standby] To turn on/off dual standby. The power saving mode is invalid once the dual standby turns on.

[TX Priority] To switch priority RX to **[Edit]** or **[Busy]**. Once set up to Busy status, the main frequency will shift to the calling frequency automatically when the calling ends.

[Scanning] Press this button to enter into scanning status, and press arbitrary keys to exit.

[Backlight On-off] Press to turn on/off backlight.

[Roger Beep] To switch the RX end tone types.

[FM Radio]

- ① press button to enter into FM status, press PTT to exit.
- ②press # button to switch from FM to frequency mode or channel mode. Press number keys to input FM frequency while under frequency mode. Press number keys to input FM channels while under channel mode.
- ③Press* button to switch from FM searching to Single Channel or Full Band mode. Long press UP or DOWN keys to search channels. Stop searching when receive channel while under single channel searching mode. To search for 16 channels and store them while under full band searching mode.

[Talkaround] To switch repeater frequency to Talk-Around or Frequency Reverse.

To transmit at RX frequency under Talk-Around status. To interchange frequency of RX and TX under frequency reverse mode.

[Alarm] Press the button to enter into emergency alarm status and make an alarm sound, press arbitrary keys to exit.

[Freq Detect] /[Remote CTC/DCS Scan]

- ① press this button to enter into frequency detecting or remote sub-tone decoding mode, and the device will scan the RX signal nearby.
- ② press * button to switch from frequency detecting mode and remote sub-tone decoding mode.
- ④ Press → to re-detect after detecting done. Press ► to save detecting results to VFO channels, and return to standby mode. Press PTT to give up detecting results and exit detecting mode.

[Send Single Tone] Available only at analog channels. Press this button to transmit a single frequency signal at current frequency.

[Status Query] Press this button to check time, battery power etc.

[Remote Monitor] Available for digital channels and Individual Call Contact. Press this button to make a 15-second call to monitor the surrounding sounds.

[Color Code Scan] Available for digital channels only. Press this button to enter into Color Code Scanning mode to scan color codes from same digital frequencies. [Remote Stun/Kill/Wake Up] Available for digital channels and Individual Call only. Press this button to Stun/Kill/Activate appointed radios. The stun radio can receive signals and do nothing. The killed radios cannot be used only do activate them to remove from Stun and Kill status.

[Online Check] Available for digital channels and Individual Call only. Press this button to check the radios turn on and at same channels or not.

[LCD Brightness] Press this button to change the lightness of backlight. Level 0 is the most darkness, and level 4 is the brightest.

[NOAA Mode] press this button to enter into NOAA scanning mode, and switch NOAA channels via up/down button. The radio will start to scan NOAA automatically when not any operation for 6S. The followings are NOAA frequencies.

1	162.55000M	2	162.40000M	3	162.47500M
4	162.42500M	5	162.45000M	6	162.50000M
7	162.52500M	8	161.65000M	9	161.77500M
10	161.75000M	11	162.00000M		

Menu Specifications

8 Radio Setting

[Radio Name] To change the alias of this radio,can set up as the owner's alias or calling number. When set up as[Send Radio Name] in menu list [Analog Set] ->[TX End Tone], the alias of this radio will be sent out to receiver's after analog calling ends.

[Lock Timer] The keypad will lock automatically when there is not any operation of the radio within the appointed time while under standby status. Long press * button to unlock the keypad.

[Light Timer] To set up the shutdown time of backlight. Set up as [Off] then the radio will turn off the timer, the backlight no longer turn off automatically.

[Menu Exit] The radio will exit menu interface automatically once there is no any operation within appointed time.

[Save Mode] To save power consumption while set up the Power Saving function. But there is delay for RX ,omitting or missing messages under power saving status. Otherwise, the radio cannot set up as power saving while under dual standby status.

[Scan Mode] Set up as [CO] ,the radio will resume scanning once the received signal ends. Set up as [TO] , the radio will resume scanning after it receives signal and stay for a while. Set up as [SE] ,the radio stops scanning once it receives signals.

[Scan Direction] Scanning upwards and downwards.

[Scan Dwell] To set up the signal stay time while under[TO] status.

[Scan Return] Set up as [Original CH] too return to original status after scanning done. Set up as [Current CH] to stay at current channel after scanning done.

[Alarm Type] Set up as [Local Alarm] to make an alarm sound once trigger alarm. Set up as [Remote Alarm] to send alarm signals to remote radio and this radio doesn't make any sound itself. Set up as [Local + Remote] this radio makes an alarms sound and send alarm signals to remote radios while trigger this function.

[Main PTT TX] Set up as [Area A] ,press PTT to transmit at A band. Set up as [Main Area] , press PTT to transmit at main band.

[Save CH] Copy current channel to appointed channel and save it.

[Delete CH] Delete the data of selected channel.

[LCD Contrast] The higher the value, the deeper the contrast. And need to restart the radio to complete the setting.

[Initialization] The frequency data will return to the last programming status.

8.1 Definable Key

[Slaver PTT] Set up the side-key 1 as secondary PTT. The preset functions will be invalid when press side-key 1 to transmit at B band.

8.2 Analog Setting

This data is available only for analog channels.

[SQ Level] The higher the value, the more difficult to turn on receiving.

[TX Start Tone] To use to set up the individual call frequency.

[MIC Gain] To adjust the MIC receiving sensibility. The higher the value , the more sensibility the MIC.

[SPK Gain] To adjust the speaker's volume. The higher the value, the louder the speaker. To avoid audio distortion, please don't turn up the speaker highly.

[DTMF Delay] If DTMF tone is needed, it will be sent out at appointed time.

IDTMF Intervall To set up the interval of two DTMF codes.

[DTMF Duration] To set up the lasting time of individual DTMF code.

[DTMF Mode] To set up sending time of DTMF code. The radio will not send DTMF code while transmitting, when the radio set up as[Off 1].

[DTMF Select] To send one of 16 preset DTMF codes while transmitting.

[DTMF Display] The received DTMF code will show up on the display once the radio set up as [On].

[DTMF TX Gain] [DTMF RX TH] There are difficulties while decoding DTMF codes of different brands radios. By adjusting the value of these two options, the DTMF codes of different brand radios can be compatible. Encode gain 64 and decode threshold 24 are recommended.

[DTMF Control] Other radios can take charge of this radio by sending same DTMF code of monitor/Stun/Kill/Activate, when the radio set up as [On].

8.3 Digital Setting

This data is available only for digital channels.

[Personal ID] To set up numeric ID, ID ranges from 1-16776415.

[Group Hold(unit:ms)] This radio make calls within the appointed time after the end of group call, and the receiving part will be the called one.

[Single Hold(unit:ms)] This radio make calls within the appointed time after the end of individual call, and the receiving part will be the called one

[SQ Level] To set up the squelch of digital communication. The smaller the value, the easier to turn on the squelch. Note that the radio will not be in power saving mode once the squelch level is too small.

[Contacts Set] To set up Add/Delete/Modify contact list. Note that there is only one all call contact and cannot be changed and deleted. Contact ID ranges from 1-16776415.

[Group List Set] To set up Add/Delete/Modify receiving group contact list. Press

L to select group call members and the selected members will turn to black background. And press

✓ to cancel.

[Encryption Set] To set up DMR encryption of this radio.

8.4 Channel Setting

8.4.1 Analog Channel Setting

[CTC/DCS] [RX CTC/DCS] [TX CTC/DCS] To set up sub-tone of current channel. To switch the types via * key.

[DCS Enrcypt] Set up as [Encrypt 1/2/3] to encrypt with standard DCS and only valid for DCS. Set up as [Mute Code], the sub-tone of current channel is invalid and use [Mute Code 1/2/3] as sub-tone of current channel.

[Mute Code 1/2/3] To decode non-standard digital sub-tone via one-click privacy decode function.

[Scan Add] Set up as **[Remove]**, the radio will not scan this channel while scanning. **[Offset Dir]** Set up **[Offset Freq]** before setting up frequency direction. When selects **[Upward]**, the TX frequency = RX frequency + frequency difference. When selects **[Downward]**, the TX frequency = RX frequency - frequency difference

[Offset Freq] Set up frequency difference as 0, if need to turn off the frequency difference of current channel.

8.4.2 Digital Channel Settings

[DMR Mode] There is no time slot difference when set up as [Dual Slot Off], and can communicate with each other once the frequency and color code are the same. The radios can communicate only with same time slot when set up as [Dual Slot On].

[DMR Slot] The time slot of current channel is valid only when set up as [Dual Slot On] .

[TX Politely] The device can make calls whether it is under called or not when set up as **[Impolite]**. The device cannot make calls whether it is called or not when set up as **[Carrier Match]** and current frequency is occupied. The device cannot make calls while it is called by others, when set up as **[CC Match]**.

8.5 Zone Setting

It has 256 zones and can be editable. Use —key to choose the members of current zone, and press — key to delete.

8.6 SMS

[New SMS] Can be edited and press menu key to select [Send] or [Save] .SMS can be sent to the receiver via[Conatacts] or [Dial No.] to select ID and sending type. To switch call types to [Individual] or [Group Call] via

key while under [Dial No.] status. The editing SMS text will be save to [Drafts] ,when set up as [Save] .

[Inbox] to save the incoming SMS and up to 256 pieces of SMS. Each SMS includes followings:

① Time: receiving time;

2 Type: Individual/group/all call;

③ ID: the sender ID

④ Name: the contacts in the contact list. If not in the list, this item is blank.

5)Text: SMS text. The number means the line number.

You can do the following operation after reading the SMS: [Reply] (Edit reply SMS and send to sender) · [Forward] (Forward the SMS to others) or [Delete]. [Outbox] to save sent SMS, and up to 256 pieces of SMS,Each SMS includes followings

① Time: Sending Time

2 Status: Sent or Fail;

③Type: Private/Group/All Call

4 ID: Receiver ID

⑤ Name: the contacts in the contact list. If not in the list, this item is blank.

(6) Text: SMS text. The number means the line number.

You can do the following operation after reading the SMS: [Resend] (Re-send the SMS) 、[Forward] (Forward the SMS to others) or [Delete] .

[Drafts] Save unfinished SMS, and up to 256 pieces of SMS

[Default SMS] Pre-edited and programmed SMS via PC ,and save up to 16 pieces. [Clear All SMS] Delete all things of [Inbox] \ [Outbox] [Drafts]

8.7 FM Radio

Set up [Work Mode] as [Freq Mode] ,the inputting is FM radio frequency values when under FM radio status. Use channel knob to switch frequencies. Set up as [CH Mode] , the inputting is FM channel numbers, use channel knob to switch FM channels.

[RX Standby] Set up as **[On]** ,the radio can standby the calling signals of main frequency while under FM radio status.

[Scan Mode] Set up as **[One Station]**, the FM radio will stop searching channels once it search available channel and save the channel frequency into current channel. Set up as **[All Range]**, the radio will stop searching channels once it search for 16 channels and save them to RM radio channels.

[Area] The radio has 16 FM radio zones, and 16 channels per zone. And zone name can be editable and set up as [Set As Current] .

[Channel] 16 channels of current FM zone, and the frequency value can be editable and set up as [Set As Current].

8.9 Time Management

[APO] To [On] or [Off] the auto shutdown function.

[APO Timer] If not do any actions on the radio , the radio will shutdown automatically when activate this function.

Specification

	General
	Receiving ONLY:
Frequency Range	FM radio: 64-108MHz
	AM Aviation Frequency Band: 108-136MHz
	Analog Frequency: 136-520MHz
	Digital Frequency: 136-174MHz 400-470MHz
	Transmitting:
	1)For USA
	Analog Frequency: 144-148MHz 420-450MHz
	Digital Frequency: 144-148MHz 420-450MHz
	2)For European:
	Analog Frequency: 144-146MHz 430-440MHz
	Digital Frequency: 144-146MHz 430-440MHz
	For Other countries: Frequency may not same as above
Channel Capacity	1024 Channels +2*VFO Channels
Channel Spacing (W/N)	Analog:25kHz/12.5kHz Digital:12.5K
Voltage	7.4V DC
Working Mode	Same frequency simplex, different frequency simplex
Antenna	Removable Antenna
Frequency Stability	±2.5ppm
Working Temperature	-20°C ~ +60°C
Dimension	112 * 61 * 38 about 198g
	Transmitting Part
Modulation Mode	Analog: F3E Digital: 4FSK
Maximum Frequency deviation (W/N)	≤5KHz /≤2.5KHz
SNR (W/N)	-45dB/ -40dB
TX Current	≤1500mA
	Receiving Part
Sensitivity (W/N)	0.22μV/ 0.25μV 12dB SINAD
Inter modulation (W/N)	65dB/ 60dB
Audio Distortion	< 5%
Audio Output Power	≤1W (16Ω)
RX Current	≤350mA
Standby current	≤70mA

Note: The above parameters are subject to change without prior notice!