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radtel
RT-4D Digital DMR Walkie Talkie Dual
Mode Analog Two Way Radio

Radtel RT-4D Digital DMR Walkie Talkie Dual Mode Analog Two Way Radio User Manual

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Contents

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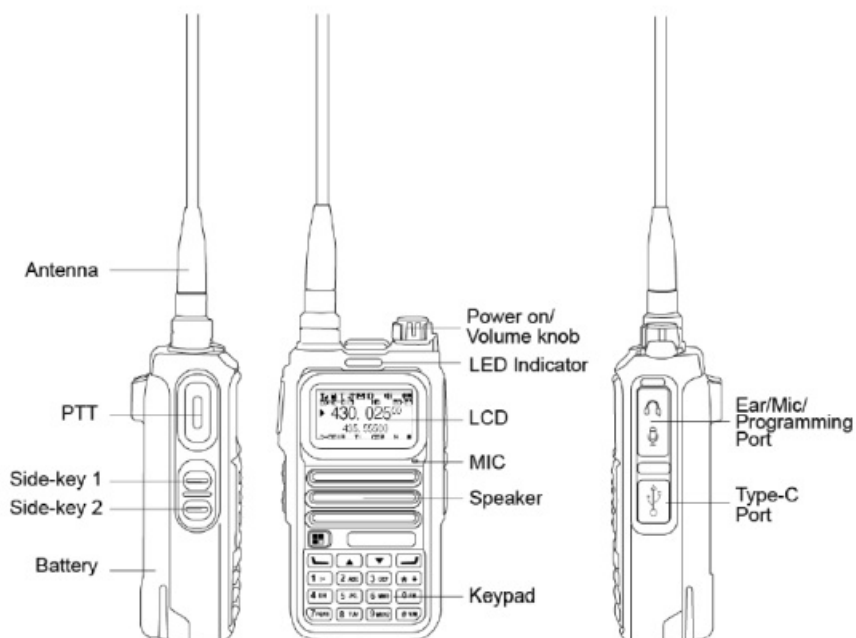
WARNING
Product safety and RF Exposure for two-way radio:

 ATTENTION!

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.
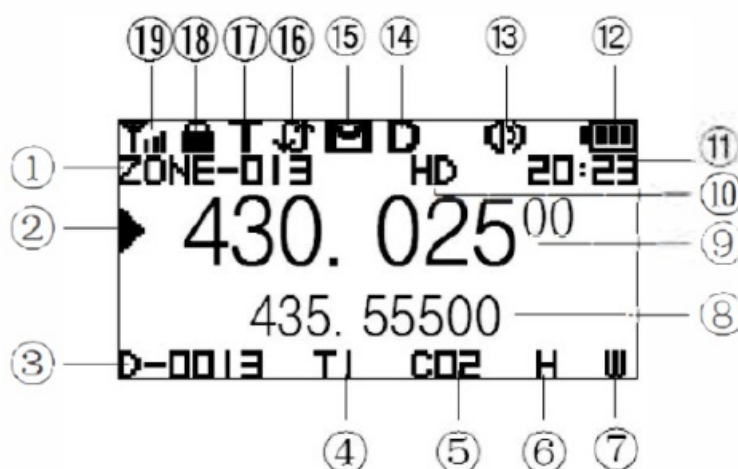
Radio Buttons & Knobs

Antenna

Power on/
Volume knob

LED Indicator

PTT

LCD

MIC

Side-key 1

Speaker

Side-key 2

Ear/Mic/
Programming
Port

Battery

Type-C
Port

Keypad

Keypad Function

•	•
PTT	Transmit the RF signal or exit the current operation interface.
Side key1	Define as PTT function
	Customize long-press and short-press functions
Side key2	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
▼	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
2-9	short press: numbers sr 2-9
	long press: defined function.
	DTMF code: 2-9
	Text input: numbers 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
3. D-XXXX is the digital channel, A-XXXX is the analog channel, and XXXX is the channel number
4. T1/T2 is the digital channel time slot, and AM/FM is modulation in the 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; Lis low power
7. W is wide band; N is narrow band
8. Sub channel information
9. Main channel information
10. HD is a 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 Manag.e

Menu	Sub Menu	Function
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.
07 Brightness	0-4 level	Choose the brightness level of the 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.
11 TX priority	Edit	Always transmit at main band.
	Busy	Switch to busy channel as the main band.
12 Freq Step	0.25,1.25,2.5,5, 6.25,10,12.5,20, 25,50,100,500, 1M,5M	Set the frequency or scan step
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
15 Scan Mode	TO	When the walkie-talkie detects a signal, it stops scanning and remains at the same frequency. After a preset time, the walkie-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
18 Scan Return	Original CH Current CH	Set the current channel after scanning.
19 Alarm Type	Local	The radio emits the alarm sound
	RemoteThe radio	o emitss the alarm sound and other radio will receive the alarm tone.
	Local+Remote	Both radios emit alarm sounds..
20 Main PTT TX	Area **A** Main Area	Transmit in main area or always transmit in A area
21 Area **A** Mode	CH mode Zone mode Freq mode	Set the Channel mode, Frequency mode, or zone mode..
22 Area A Show	Show CH No Show Freq Show Alias	Set the display way in the selected mode
23 Area A Zone	Zone1-Zone256	Set the zone numbers
24 Area B Mode	CH mode Zone mode Freq mode	Set the Channel mode, Frequency mode, or zone mode.
25 Area **A** Show	Show CH No	Set the display way in the selected mode

Menu	Sub Menu	Function
25 Area **A** Show	ShowFreq 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- CH-1024	Save the frequency and tone into channels..
28 Delete CH	CH-0001- CH-1024	Delete the frequency and tone in this channel
29 Instruction	barcode	Scan barcode to get user manual
30 Version	Version info.	Show the version information.
31 LCD Contrast	Display contrast	Display contrast: the higher the value, the deeper the contrast. After setting, a restart is required.
32 Initialization	Cancel Ensure	Confirm or cancel 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,	
7 Press Long	Freq Detect	
8 Press Long	CTC/DCS scan	
	Single tone	
	Status query	
	Remote Monit	
	Color code scan	
	Remote Stun	
	Remote kill	Set the side key 1, side key 2, Num0-9 short press or long press
	Rmt Wake up	
	Online check	
9 Press Long	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 silences the receiver when there is no signal. The lower level is easier to interfere with, and in the higher level, the sensitivity is not as good as lower !level, so it is best to set it to middle
02 TX Start Tone	On, off	The tone before transmitting
03 TX End Tone	Off, roger beep1 Rogerbeep2 Radio name	The tone end transmitting or send radio name
04 Single Tone	1750Hz	Edit the tone frequency in Key Define
05 Mic Gain	0-31	Adjusts the microphone sensitivity, the higher the value, the higher the sensitivity.
06 SPK Gain	0-63	Adjust 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 Gail	0-127	Set DTMF Transmit Gain
16 DTMF RX TH	0-127	Set DTMF Receive threshold
17 DTMF Control	On, off	Turn 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	Tum 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 the 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… **J** 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
01 DMR Mode	Dual Slot off	Current Channel Enable or Disable DMR
	Dual Slot on	Double Capacity Mode
02 DMR Slot	Slot 1	
	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 RX Group	off	Set the receive group call list for the current channel
06 Encryption	Off.Kev1-256	Setting the current channel voice call key
07 TX Politely	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
	CC match	Prohibit transmitting only if the colour code matches
08 TX Power	Low	
	High	Current channel high and low transmit power
09 Scan Add	Add, Remove	Add or remove to scan lists
10TOT	Off, 5s-600s	Set the time-out timer
11 CH Alias	Channel name	Edit the channel name
12 Offset Dir		Frequency difference direction of the current channel
13 Offset Freq	Offset freq	Set offset frequency

Zone Set

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

Message

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

FM Radio

Menu	I Sub Menu	I Function
01 Work Mode	CH mode, frequency	Set working mode
02 RX Standby	On off	Turn off the radio when Rx mode
03 Scan Mode	One station, all range	Set the search mode
04Area	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

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

Repeater frequency input
Go to menu Channel Setting 05 to set differ direction 12 and differ frequency 13
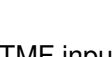
DMR voice encryption

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, CD the same encryption type; ® the same serial number of the encryption key; ® the same key value of the encryption key.

Dialing call

Inthe the digital channel, press ⌐⌐. Key into the al interface. Via\… ⌐⌐ … switch call type. Input call ID via keypad and press PTT to send the call.

DTMF

DTMF Inputting and Sending

1. CD press\…… to enter int DTMF inputting interface while under analog channel.

   - ® input DTMF code via keypads and delete via.. ⌐⌐ .J
   - ® Press PTT to call; the device will send a DTMF code to the receiver after the appointed delay time
2. While the device enters into analog receiving status, the display will show the sender's DTMF code if turn on DTMF decoding.
3. Press keypads to send relative DTMF code while under analog transmitting status.

5.4 DTMF Remote Monitor

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

DTMF Stun/Kill/Activate

1. CD 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 used untilit 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.

Text Input

1. Press# to switch inputting methods, press• to delete inputting when under text input status.
2. Press number keys to input numbers
3. English Letters Inputting [AB) [abcJ
   - CD Number 2-9 can input relative English letters, press Number O to input space, Number 1 to input English symbols.
   - Press the same button to switch to different letters.

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 call ends.
- **[Scanning)** Press this button to enter into scanning status, and press arbitrary keys to exit.
- **[Backlight On-off)** Press to turn on/off.
- **[Roger Beep]** To switch the RX end tone types.

[FM Radio)

1. CD press button to enter into FM status, press PT T to exit.
2. Press the # 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.
3. Press• 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.
4. **[Talkaround)** To switch repeater frequency to Talk-Around or Frequency Reverse.
5. To transmit at RX frequency under Talk-Around status. To interchange the frequency of RX and TX under frequency reverse mode.
6. **[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)

- Press this button to enter into frequency detecting or remote sub-tone decoding mode, and the device will scan the RX signal nearby.
- Press the * button to switch from frequency detecting mode and remote sub-tone decoding mode.
- Press ⌐ or PTT to exit during frequency detecting, press# to switch detecting bands.
- Press ⌐ to re-detect after detecting is 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 the current frequency.
- **[Status Query)** Press this button to check the 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 the 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 activate them to remove from Stun and Kill status.

- **[Online Check)** Available for digital channels and Individual calls 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 the backlight. Level O is the darkest, and level 4 is the brightest.
- **[NOAA Mode)** Press this button to enter NOAA scanning mode, and switch NOAA channels via the up/down button. The radio will start to scan NOAA automatically when there is no operation for 6S. The ffollowingre 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

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] i] menu list [Analog Set] ->[TX End Tone], the alias of this radio will be sent out to receivers 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 the backlight. Set it up as [Off], and then the radio will turn off the timer, and the backlight will no longer turn off automatically.
- **[Menu Exit)** The radio will exit the menu interface automatically once there is no operation within the appointed time.
- **[Save Mode)** To save power consumption while setting up the Power Saving function. But there is a delay for RX, omitting or missing messages under power saving status. Otherwise, the radio cannot be 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 the gnal 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] to return to original status after scanning is done. Set up as [Current CH] to stay at current channel after scanning done.
- **[Alarm Type)** Set it up as [Local Alarm] to make an alarm sound once the trigger alarm is triggered. Set it up as[Remote Alarm] to send alarm signals to the remote radio, and this radio doesn't make any sound itself. Set up as [Local + Remote) This radio makes an alarm sound and sends alarm signals to remote radios while triggering 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 the 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.

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

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 too high.
- **[DTMF Delay]** If a DTMF tone is needed, it will be sent out at the appointed time.
- **[DTMF Interval]** 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 the sending time of the DTMF code. The radio will not send a DTMF code while transmitting when the radio sis et up as[Off]
- **[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 is set up as [On].
- **[DTMF TX Gain] [DTMF RX TH]** There are difficulties while decoding DTMF codes of different brands of 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 the same DTMF code of monitor/Stun/Kill/Activate when the radio sis et up as [On].

Digital Setting

This data is available only for digital channels.

- **[Personal ID]** To set up a numeric ID, the ID ranges from 1-16776415.
- **[Group Hold(unit: ms)]** This radio makes calls within the appointed time after the end of a group call, and the receiving party will be the called one.
- **[Single Hold(unit: ms)]** This radiomakese calls within the appointed time after the end of an 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 the contact list. Note that there is only one all-call contact, and it

cannot be changed or deleted. Contact ID ranges from 1 to 6776415.

- **[Group List Set]** To set up Add/Delete/Modify receiving group contact list. Press 1… ⌐.. to select group call members and the selected members will turn to black background. And press _ ⌐ J to cancel.
- **[Encryption Set]** To set up DMR encryption of this radio.

Channel Setting

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]**,t he radio will not scan this channel while scanning. [Offset Dir] Set up [Offset Freq] before setting up frequency direction. When [Upward]is selected, 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.

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 the 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 the current frequency is occupied. The
- device cannot make calls when it is called by others when set up as [CC Match].

Zone Setting

- It has 256 zones and can be editable. Use '–key to choose the members of current zone, and press _J key to delete.
  8.6 SMS
- **[New SMS]** It can be edited, and press the enu key to select [Send] or[Save].SMS can be sent to the receiver via[CContacts or [Dial No.] to select the ID and sending type. To switch call types to[Individual] or[Group Call] via '– key while under[Dial No.] status. The edited SMS text will be saved to [Drafts]when set up as[Save].

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

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 the following.

1. Time: Sending Time
2. Status: Sent or Fail;
3. Type: 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 pprogramSMS via PC, a nd save up to 16 pieces. [Clear All SMS] Delete all things of [lnbox), [Outbox) [Drafts)

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]], he radio can stand by the calling signals of mathe in frequency while under FM radio status.
- [Scan Mode) Set up as [One Station], the FM radio will stop searching channels once it finds an available channel and save the channel frequency into the current channel. Set up as[AII Range], the radio will stop searching channels once it has searched for 16 channels and save them to RM radio channels.
- [Area) The radio has 16 FM radio zones and 16 channels per zone. And the 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].

Time Management

- [APO) To [On) or[Off) the auto shutdown function.
- [APO Timer) If there are no actions done on the radio, the radio will shut down automatically when this function is activated.

Specification

General	
Frequency Range	Receiving ONLY: FM radio: 64-108MHz AM Aviation Frequency Band: 108-136MHz Analog Frequency: 136-520 MHz Digital Frequency : 136-174MHz 400-470MHz Transmitting: 1)ForUSA 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: Frenuencv mav not same as above
Channel Capacity	1024 Channels +2*VFO Channels
Channel Spacing (WIN)	Analog:25kHz/12.5kHz Digital:12.5K
Voltane	*7.4V* DC
Workinn Mode	Same frequency simplex, different frequency simplex
Antenna	Removable Antenna
Frenuencv Stabilitv	±2.5ppm
Workinn Temnerature	– 20'C ~ + 60′ C
Dimension	112 * 61 * 38 about 198g
Transmitting Part	
Modulation Mode	Analog: F3E Digital: 4FSK
Maximum Frequency deviation (WIN)	< 5KHz /<2.5KHz
SNR (WIN)	-45dB/ -40dB
TX Current	< 1500mA
Receiving Part	
Sensitivity (WIN)	0.22μV/ 0.25μV 12dB SINAD
Inter modulation (W/N)	65dB/ 60dB
Audio Distortion	< 5%
Audio Output Power	< 1W (160)
RX Current	< 350mA
Standby current	< 70mA

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

Documents / Resources

	Radtel RT-4D Digital DMR Walkie Talkie Dual Mode Analog Two Way Radio [pdf] User Manual RT-4D, RT-4D Digital DMR Walkie Talkie Dual Mode Analog Two Way Radio, RT-4D, Digital DMR Walkie Talkie Dual Mode Analog Two Way Radio, Walkie Talkie Dual Mode Analog Two Way Radio, Dual Mode Analog Two Way Radio, Analog Two Way Radio, Two Way Radio, Radio

References

- **User Manual**