Thanks for buying the transceiver.

This transceiver offers latest design, multi-functionality, stable performance and easy operation. We believe you will be pleased with the high quality and dependable features for all your communication needs.

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Description of functions

- *I*. Dual Band, Dual Frequency, Dual Display and Dual Standby
- 2. Frequency Range (can be suitable for different countries or areas): 136-174MHz & 350-470MHz (Rx / Tx), 136-174MHz & 400-480MHz (Rx / Tx), 136-174MHz & 420-520MHz (Rx / Tx), 136-174MHz & 400-470MHz (Rx / Tx), 136-174MHz & 245-250MHz (Rx / Tx), 136-174MHz & 216-280MHz (Rx / Tx),

 - 136-174MHz & 430-440MHz (Rx / Tx).
- 136-174MHz & 225-226MHz (Rx / Tx), 3. Working Mode: U-V, V-V or U-U available
- 4. Same Channel: VHF T x & UHF Rx or UHF T x & VHF Rx available
- 5. DTMF Encoding
- 6. Digital FM Radio (76-108MHz)
- 7. CTCSS/DCS Frequency Scan
- 8. Output Power: 5W VHF /4W UHF
- 9. Memory Channel: 128 channels
- 10. VOX Function
- 11. Stopwatch Function
- 12. 105 groups DCS and 50 groups CTCSS
- 13. Voice Prompt
- 14. SOS Function
- 15. Wide/Narrow Bandwidth Selection (25KHz / 12.5KHz)
- 16. Channel number, Channel + Frequency or Channel name display mode available
- 02

17. Reverse Frequency	Professional FM Transceiver
18. Multi-functional Scan	
19. Priority Scan Function	
20. Bright Flashlight Illumination	
21. Step (5/6.25/10/12.5/25KHz/50KHz/100KHz)	
22. High/Low Power selection (5W/1W)	
23. High Capacity Li-ion Battery	
24. Intelligent Charger	
25. Offset Frequency setting (0-69.950MHz)	
26. Frequency Shift Direction Setting	
27. Busy Channel Lockout	
28. Power on Display (Battery-V/Full Screen/Other Characters)	
29. Low-battery Voice Prompt	
30. Start and/or End Transmitting Beep Prompt	
31. Transmit Overtime Prompt	
32. Keypad Locked (Auto / Manual)	
33. Add Scanning Channel Function	
34. High/Low power switchable when transmitting	
35. Computer Programmable	
36. Wire-clone Function	

Getting Started

LCD display

On the display you will see various indicators that show what function you have selected. Sometimes you may not recall what those indicators mean, or how to select them, in such a case, you can refer to the table below.



Lamp	·····	Rotary Encoder
Antenna		Power switch / Volume control
Receive light		Transmit Light
A/B Swith Key on Ma Frequency Screen/LCD Display		Single/Dual Band switch Key
Function Key	C C C C C - A TREVOS NA C 1 4 5 2 2 5 11 08 + 4 3 9 7 9 8 11 28 	Exit Key
Number Key		Reverse Frequency/Scan Key
Up/Down Key		Lock Key/Stopwatch timer Key





Getting Started

Side key 2

Press slightly to turn ON/OFF the lamp while press 2 seconds to set Squelch ON.

1750Hz Burst Tone

Sometimes, 1750Hz Burst tone is required to carry out some other specific functions. This transceiver has 1750Hz Burst tone to help you.

How to use

In transmitting, press side key PF1, the transceiver transmit 1750Hz Burst tone. The time pressing side key PF1 determined how long will transmit 1750Hz Burst tone. Release side key PF1 to end transmitting 1750Hz Burst tone.









How to operate	Professional FM Transceive
Menu Locked function	
To avoid operating menu often, you can set Menu Locked fund	tion on through the programming
software, see the following operation steps:	
1. Setting password of switching Channel and frequency mode.	
2. Set the working mode as Channel mode	
3. Turn off operating menu under channel mode.	
When you want to operate Menu functions, input the password y	ou set, then switch to frequency mo
NOTE 🖄	
>> When the transceiver is on dual standby (TDR appears), the frequency master frequency, the other one is vice frequency. When vice frequency	y receives, the LCD displays " S ".
>> When the transceiver is on dual standby (TDR appears), the frequency master frequency, the other one is vice frequency. When vice frequency In dual standby, the master frequency is used for transmission; the vice f	y receives, the LCD displays " S ".
>> When the transceiver is on dual standby (TDR appears), the frequency master frequency, the other one is vice frequency. When vice frequency	y receives, the LCD displays " S ".

NOTE \land

>> Under Frequency/Channel mode, Band A and B switchable through AB key, if shows A, all the operating of channel or frequency is on band A, while shows B operating on band B.

Under Frequency mode: the following Nine functions can be set respectively on both Band A and Band B-

- ≫ frequency step, output power, squelch level, channel bandwidth, CTCSS, DCS, Frequency shift direction, Offset frequency, and Channel displaying mode.
- >> Under Channel mode: setting following seven functions on both Band A and B is invalid-Stepping transmit output power, CTCSS, DCS, channel bandwidth, frequency step, frequency shift direction and Offset frequency.

Setting Frequency Step (STEP) ----- MENU 1

In standby, press 🔊 + 🖦 , the screen displays 🔭

Press (IEW) to enter, it shows '12.50K', press (IEW) / (IEW) to select the desired step, then press (IEW) to confirm, press (IEW) return to standby.

This transceiver has seven frequency steps available: 5.00KHz, 10.00KHz, 12.50KHz, 25.00KHz, 50.00KHz and 100KHz.







Setting Wide or Narrow Bandwidth (WN) --- MENU 8

In standby, press (19) + (19), the screen displays $\left[\frac{1}{2} \frac{1}{2} \frac{1}{2}$

Press few to enter, it shows 'WIDE', press 💽 / 🚺 to select WIDE/NARROW bandwidth, then press

Setting Voice Prompt (VOICE) --- MENU 9

In standby, press (IN) + (IN) , the screen displays (UDICE TO LICE)

Press (MEND) to enter, press () / (to select Chinese, English or OFF voice prompt, press (KEND) key to confirm, press (KEND) return to standby.

ΝΟΤΕ \land

» If you want to turn off all prompt of keyboard, must turn off MENU 9 and MENU 11 at the same time.

Setting Transmit Overtime Alarm (TOA) --- MENU 10

Turn on TOA function, when your transmission reached the preset TOT (transmit over time), the transceiver will alarm and TX indicator flash.

This transceiver can be set from 1 to 10 TOA level with 1 second each. 1 level means the transceiver prompt 1 second before transmitting reached to TOT. 18

n standby, pre	ss MEN + (1) (0), the screen displays $\left[\frac{TOR}{3} + \frac{TOR}{5} \right]$
	ter, it shows '5', press 🔼 / 💽 to select OFF/1~10 Level, then press 💷 to confirm
oress EXT retur	n to standby.
Beep Prom	pting Function (BEEP) MENU 11
Beep promptin	g function is prompting the confirmed operation, wrong operation or malfunction.
We kindly sug	gest you to turn on this function to avoid any possible malfunction.
In standby, pre	ss (MENU) + (STEP1) , the screen displays (BEEP ON FI
Press 🖭 to er	nter, it shows 'ON', press 💌 / 🚺 to select turn ON/OFF the beep prompting function
then press MENU	to confirm, press 🗊 return to standby.
NOTE 🥂	Δ
» If MENU (9)	– Voice prompt function turn on, it will be priority.
≫ If MENU (9)	– Voice prompt function turn on, it will be priority.

Setting I	Power-on Message (PONMSG) MENU 12
The power	on message of this transceiver as following:
OFF: Full di	splay
BATT-V: dis	play the current battery voltage
MSG: displa	ay 'WELCOME'
In standby,	press $(\text{IENU} + \text{SP1}) = 1$, the screen displays $\left[\frac{PONMSG}{m} + \frac{S}{OFF} \right]$
Press MENU to	o enter, it shows 'OFF', press 💽 / 💽 to select OFF/BATT-V/MSG, then press 📧 to
confirm, pre	ess Exm return to standby.
Busy Cha	annel Locked (BCL) MENU 13
This functio	n is to prevent the interference of other communicating channels. If the selected channel
was occupie	ed, press [PTT], the transceiver can not transmit.
n frequenc	y mode, press 🕬 + 🝽 👀 , the screen displays 🖓 🖅 👘
Press MENU to	o enter, it shows 'OFF', press 🚺 / 🚺 to select ON/OFF this function, then press 📖 to
confirm, pre	ess EXT return to standby.







How to operate Setting Scan Mode (SC-REV) --- MENU 19 This transceiver has three scan modes: **TO:** When receiving signals, it will go on scanning without any operation within 5 seconds. CO: It will stop scanning when receiving signals, while go on scanning after signal disappeared 3 seconds. SE: When receiving signals it will stop scanning. In Standby mode, press MEND + SP1 SP3 , the screen displays $e^{SC - RED^* SP}$ Press 📾 to enter, it shows 'TO', press 💌 / 🔽 to select TO/CO/SE scan mode, then press 📾 to confirm, press EXI return to standby. Setting Scan / Lamp / SOS-CH / Radio Function on Side key 1 (PF1) --- MENU 20 There are four functions available on the side key 1 of this transceiver: SCAN: Scan function LAMP: Lamp function SOS-CH: SOS function RADIO: FM radio function **OFF:** Turn off functions 1. Scan function: In standby mode, press Side key 1 enter to Scan mode (scan mode can be set through MENU 19 - Scan Mode Setting), press any key to stop scanning. 24



How to operate NOTE >> In case that SOS-CH frequency you set is not the master frequency. When enters SOS alarm function, the transceiver automatically set SOS-CH on the master frequency, and will not resume. \gg Please press \overrightarrow{AB} key to reset the master frequency. In standby, press (IN) + (22) (0), then screen displays then press 💷 to enter, press 🔼 / 🚺 to choose SOS-CH submenu, the screen displays 📜 Ffi 🖉 🕯 press 📾 again to confirm, press 💌 / 🚺 to choose Band A or Band B, then press 📾 to confirm, the transceiver sounds "wu…wu…", meanwhile the RED/GREEN/FLASHLIGHT flashing, it means set SOS-CH function ON. Through the above setting, in standby, press PF1 side key, to transmit SOS signal. 4. RADIO function: • Turn on the Radio: In standby mode, press Side key 1 to turn on. The screen displays 1 45025 a will search the radio stations automatically when the green light flashing, and will stop until searched. You can listen the radio. • Tune the radio stations: In Radio mode, press and , the radio will tune the stations automatically and the green light flashing at the same time, it will stop tuning while searched the station. You can also press 🚺 / 🔽 to turn the radio stations. 26



Working Mod	le (CH-MDF) MENU 21
	as two working modes available:
1. Frequency mo	
2. Channel mode	
	annel mode available:
①Channel (CH)	②Frequency + Channel number (CH FREQ) ③Channel name (NAME)
ΝΟΤΕ \land	
kinds of channe	shift password can change Frequency mode into Channel mode, while change among the three I mode without inputting password. password via programming software.
Frequency (FRE Invalid passw In standby, pre confirm.	id with six "O" is invalid (turn off the Shift password function) while set not full of "O" is valid. iQ) and Channel mode changeable ford ess (NEW) + @2 (1), then press () / (1) to choose working mode press (NEW) to
Frequency (FRE Invalid passw In standby, pre	Q) and Channel mode changeable ord
Frequency (FRE Invalid passw In standby, pre confirm.	Q) and Channel mode changeable ord
Frequency (FRE Invalid passw In standby, pre confirm.	Q) and Channel mode changeable ord
 Frequency (FRE Invalid passw In standby, preconfirm. 28 	EQ) and Channel mode changeable ord ess INU + INI (, then press IN) / IN to choose working mode press INU to Professional FM Transceiver
 Frequency (FRE Invalid passw In standby, preconfirm. 28 Valid password 	GQ) and Channel mode changeable ord ess IEW + SO2 , then press /) to choose working mode press Image: solution of the press in the pr
 Frequency (FRE Invalid passw In standby, pre- confirm. 28 Valid password In standby, pres 	EQ) and Channel mode changeable ord ess IEW + SM2 I, then press I / I to choose working mode press IEW to Protessional FM Transceiver s IEW + SM2 I then press I / I to choose working mode press IEW to
 Frequency (FRE Invalid passw In standby, preconfirm. 28 Valid password In standby, preson firm, the screen 	GQ) and Channel mode changeable ord ess IEW + SO2 , then press /) to choose working mode press Image: solution of the press in the pr
 Frequency (FRE Invalid passw In standby, preconfirm. 28 Valid password In standby, preson the screen standby. 	icQ) and Channel mode changeable ord esss (EN) + S12 ST1 , then press () / () to choose working mode press () to Professional FM Transceiver s (EN) + S12 ST1 , then press () / () to choose working mode press () to en displays six short line () ===== 1 / 21

press (IN) to confirm, press (IN) return to standby.
NOTE (IN)
When the function sets "ON" for opening the auto backlight, it means only when you press the number key, the backlight is opened. The backlight is closed when transmitting or receiving.
Shortcut Switch on Frequency Mode and Pure Channel Mode

In standby, press **MEN** + **TOR** key to switch the mode. Without password, you can switch it directly. Otherwise, you have to input the password firstly.

How	to c	oper	rate

Of	fset frequency means the difference between Tx and Rx frequency. This transceiver's offset frequency
ran	nge is between 0 to 69.950MHz.
In s	standby mode, press 💷 + 💷 👀 , the screen displays 🕂 🖉
	ess 💷 to enter, then press 💽 / 🚺 to select offset frequency or input the offset frequency throug
key	y pad directly press 📾 to confirm, press 🕅 return to standby.
Set	tting frequency shift direction and offset frequency only in Frequency mode, as for receiving and
tra	nsmitting in different frequencies.
Ор	perating steps:
1.	Set the working frequency
2.	Set the frequency shift direction and offset frequency.
	E.g.: In frequency mode, the transceiver needs to work on receiving frequency 450.025MHz and
	transmitting frequency 460.026MHz
	In Frequency mode, input 174 1965 0 0 92 1965 then press (NENU) + 922 + 1744 + MENU to
	select positive direction (+), press (MENU) + (EXIT), then press (MENU) + (SO2) + (SO2) + (MENU) + (CA) / (CA) to
	choose 10.000+ 📖 + 🖾 , the frequency shift direction and offset frequency set.

	Professional FM Transceiver
The screen displays (*45	0025 ″ ⊂ 0025 ,
press PTT to transmit a	nd the screen displays 🕂 📲 .
Release PTT the screen	displays (*4788828),
it means receiving frequ	Jency is (<u>456625</u> .
and transmitting freque	ncy is +450025* [].
Setting Frequency S Shift direction means that:	Shift Direction (SFT-D) MENU24
1. The transmit frequency i	is higher than receive frequency. This is called positive offset (+).
2. The transmit frequency i	is lower than receive frequency. This is called negative offset (-).
3. Turn off frequency shift	
In standby mode, press 📧	$\mathbf{D} + \mathbf{M2}$ m4 , the screen displays $\left[\frac{1}{2} S + T - \frac{m}{DFF} \right]$
	Ito select +/-/OFF, then press INFU to confirm, press INFU return to

Setting Stopwatch Timer (SECOND) --- MENU 25

In standby mode, press 🕬 + 💁 📾 , the screen displays 🕶 🐨

Press (1970) to enter, it shows 'OFF', then press (1) / (1) to turn ON/OFF this function, press (1970) to confirm, press (1971) return to standby.

Using the stopwatch timer:

When this function is ON, press 🖘 to start counting, while press any key to stop. Press 🖘 again to start counting.

NOTE /

>>> Stop counting, press any key (except 🖅 key) to exit stopwatch timer function.

Channel Name Edit (CHNAME) --- MENU 26

Edit Channel name:

- 1. Channel name should be within 26 letters (A to Z) and 10 numbers (0 to 9).
- 2. Channel name should be less than six length.
- 3. When selecting (-) means the bit is blank.
- 32



Hour	1 +0	on	orato	
HOW	-10	υρ	erate	

Setting Memory Channels : Setting Co-Channel and Dis-Channel (MEM-CH) --- MENU 27

In Frequency mode and in standby, you can input the desired storing frequencies and each parameter. press (INT) + (INT) , the screen displays $\left[\frac{1+|E|T|-|C||^{2}}{|E|T|-|C||^{2}}\right]$

Press INV to enter, press INV / INV to select channel, then press INV to store, a voice prompt means receiving stored. Press INV to exit, the current channel is co-channel. If you need to store dis-channel, repeat the above operation, another voice prompt means sounds – transmitting stored.

E.g.: setting 450.025MHz as receiving frequency and 460.025MHz as transmitting frequency which stored in CH-20, then set as following:

1. In Frequency mode, input 1784 1995 0 0 92, 1995 + MENU + 1922 1997 + MENU , then press 1922

or \checkmark / \checkmark to select CH-20, press we to confirm, voice prompt means receiving stored, then press \checkmark .

2. Input ref rom 0 0 22 2 5 + MENU + 22 2 7 + MENU + MENU , voice prompt means transmitting stored, then press EXIT.

3. The dis-channel is stored.

```
34
```

NC	DTE 🖄
	f the stored channels need to set the CTCSS/DCS codes, you should set it before you stored, in case to stored nto channel with frequency.
» ⁻	Fransmitting store only can store transmit frequency.
»/	Manual store, in frequency mode, only desired storing channel is empty can set receiving and transmitting
	store,or only can set transmitting store. If the channel had been edited, it can set receiving and transmitting store only after deleting the channel.
≫ F	Besides manual store, via programming software can also set the functions and parameters.
In sta Press	eting Channel (DEL-CH) MENU 28 ndby mode, press IND + IDD IND , the screen displays CEL-IDD IND IND IND IND IND IND IND IND IND

S	etting Reset MENU 29
Τŀ	his transceiver has two resets available - VFO and ALL messages.
W	/hen you use RESET VFO, all function parameters will return to default set.
W	/hen you use RESET ALL, the transceiver's all settings return to default set.
1.	. MENU Reset (VFO):
In	standby mode, press (M) + (M) ($M)$, the screen displays $\int_{M}^{RES} \int_{D}^{M} \int_{M}^{K} S$
Pr	ress 🔊 to enter, and press 💽 / 💽 to select VFO, then press 🔊 , the screen displays 🛒
pr	ress NEW again to confirm, and the screen displays $\left[\frac{RESET}{R}\right]_{T}$
A	fter set Reset, the transceiver will auto power off and reboot again.
2.	. All messages Reset (ALL)
Тс	avoid disoperation, you can set the password of ALL messages Reset (ALL) for this transceiver through
Pr	rogramming software. All messages reset will only work after the right password is input. Pls see the
Pr	ogramming software for the setting of password, 6 figures, while setting "000000" means cancelling
th	e password lock function.
(1). Setting password as "000000"
	In standby, press 💵 + 💁 🚾 , the screen displays 🔽 🐨 🗒

	Professional FM Transceiver
	Press (INV) to enter, and press (INV) / (INV) to select ALL, press (INV), the screen displays $\left[\frac{RESET}{2}, \frac{RESET}{2}, \frac{RESET}{2}$
	when the reset is finished, the transceiver will automatically turns off and reboot again.
(2)	. Setting password as "XXXXXX" (E.g.: 123456)
. ,	In standby, press (MENT) + SOL2 (WES), the screen displays (*RESERT * 2)
	Press $menty$ to enter, and press 💽 / 💽 to select ALL, press $menty$,
	the screen will displays
	at this time input the six figure password (e.g.: 123456), the screen displays $\left[\frac{RESET}{RLL}\right]$,
	the transceiver will start resetting. After reset is finished, transceiver will automatically turns off and
	restart.

CTCDD/DCS Frequency Scan ----- MENU 30

This function is to scan all CTCSS or DCS frequencies to confirm if the transmitting party has the CTCSS or DCS frequencies to transmit. When CTCSS or DCS frequencies are not matched between you and other members in the same group, you can use this function to confirm CTCSS or DCS frequencies. When the transceiver is in receiving, press (IN) + (IN) (), the screen displays $\left[\frac{SCN}{CTCSS}\right]^{*}$ Press (IN) to enter, the arrowhead points to CTCSS". Press (IN) / (IN) select to scan CTCSS or DCS. And then press (IN) to confirm, it starts scanning CTCSS/DCS frequencies.

NOTE 🗥

- \gg This function can not work under the channel mode.
- \gg The function can not start up without detecting signals.
- \gg Press \square / \square or turn code switch to reverse the scanning direction.
- When identifying CTCSS or DCS frequencies, the identified frequency will display on screen. In this moment, you can press instead of present CTCS or DCS frequencies temporarily. If you need direct replacement, please enter CTCSS menu (Menu 15 & Menu 16) or DCS menu (Menu 17& Menu 18) to save and confirm. Otherwise, the value will come back to the prior one after restoration.
- >> Only when the band that the arrowhead points receives signal, the transceiver can enter CTCSS/DCS frequency to scan.



Switch of ANI ID Code Transmit means that when you are communicating, press [PTT] key every time, the ANI ID CODE will be auto or manual transmitted. Selecting ON means automatically transmit, OFF means manually transmit.

ANI ID Code Transmit Delay

ANI ID Code Transmit Delay means when you are communicating, press [PTT] key every time to delay transmit ANI ID Code automatically.

The longest time of ANI ID Code auto transmit delay is 3seconds, which is divided into 30 levels and 100ms per level.

Setting DTMF Sidetone

DTMF sidetone gives you the opportunity to switch on or off the speaker and hear the relative DTMF tone when transmit DTMF.

There are 4 options on setting sidetone:

① Key Tone: In transmitting, press number key to open the sidetone.

- ② ANI ID Code Transmit Sidetone: Opening sidetone when the transceiver transmits ANI ID code.
- ③ Key tone + ANI ID Code Transmit Sidetone: In transmitting, opening side tone by number key or during transmitting ANI ID code.
- ④ Turn off Sidetone: In encoding, all sidetone turns off.



2. If your transceiver permits reset The editing method of the above two functions: via software

Low-voltage Battery Voice Prompt

When the battery pack has low voltage, the transceiver will sound "low battery pack", and the LED will flash every 5 seconds and a "click" sounds.

Transmit Overtime Prompt

When transceiver transmits beyond the limited time, there will be a sound warning "transmit overtime", and stop transmitting. Press PTT to transmit again. (Setting Transmit Over Timer pls see page 16)

Adding Scanning Channel

NOTE 🖄

Channel scan only according to scan list which had been added.Edit method: Strictly via programming software.

Wire Clone Fu	nction	Professional FM Transceive
Using wireclone	Switch sourceradio on, after you have connected the targetradio to the sourceradio via the cloningcable, push the [MONI] key and the sourceradio starts cloning.	LED is flashing red during cloning. LED goes out in case of successful cloning. LED glows continuous red in case of cloning failure.
	Targetradio	LED is flashing green during cloning. LED will switch OFF when cloning complete
	working with repeater ②Channel	node working with repeater
①Frequency mode	s two working modes while working with working with repeater ②Channel i le working with repeater	
①Press A/B to repeater.	choose band A, set the Tx frequency and s	sub-tones which need to work with the
	hoose band B, set the Rx frequency (if the in band B).	e repeater has TX sub-tones, you can also
set sub-tones		



	Professional FM Transceiver
lease check carefully if your	transceiver has problems by following this chart.
f you maintain to have troub roblem.	le you can reset your transceiver and very often this will eliminate your
Problem	Solution
Cannot power on, no power	 The battery may exhausted, pls change the new battery or re-charge. The battery install incorrect, pls take out the battery and re-install.
Battery life not long	 The battery life is over, pls change a new battery. Not charging completely, be make sure fully charged before take out.
Receive light turn on but no sounds	 Make sure the volume is highest Make sure the CTCSS/DCS code is the same with other members.
Keypad do not work	 Make sure the keypad is locked or not. Make sure any other key stuck.
In standby, it will auto- transmit without pressing PTT	Make sure VOX function is ON or not, and its level is set too low or not.

Trouble shooting

Problem	Solution
Some functions can not be stored	Make sure work in Channel mode. Some functions can be set only via programming software in Channel mode.
Receive other groups signal while communicating	Pls change another CTCSS/DCS code of your group.

CTCSS 1 67.0 11 94.8 21 131.8 31 171.3		
1 67.0 11 94.8 21 131.8 31 171.3		
	41	203.5
2 69.3 12 97.4 22 136.5 32 173.8	42	206.5
3 71.9 13 100.0 23 141.3 33 177.3	43	210.7
4 74.4 14 103.5 24 146.2 34 179.9	44	218.1
5 77.0 15 107.2 25 151.4 35 183.5	45	225.7
6 79.7 16 110.9 26 156.7 36 186.2	46	229.1
7 82.5 17 114.8 27 159.8 37 189.9	47	233.6
8 85.4 18 118.8 28 162.2 38 192.8	48	241.8
9 88.5 19 123.0 29 165.5 39 196.6	49	250.3
	50	254.1

Technology	parameter
------------	-----------

Appendix 2

1	D023N	16	D074N	31	D165N	46	D261N	61	D3561
2	D025N	17	D114N	32	D172N	47	D263N	62	D3641
3	D026N	18	D115N	33	D174N	48	D265N	63	D365N
4	D031N	19	D116N	34	D205N	49	D266N	64	D371
5	D032N	20	D122N	35	D212N	50	D271N	65	D411N
6	D036N	21	D125N	36	D223N	51	D274N	66	D412N
7	D043N	22	D131N	37	D225N	52	D306N	67	D413N
8	D047N	23	D132N	38	D226N	53	D311N	68	D423N
9	D051N	24	D134N	39	D243N	54	D315N	69	D431N
10	D053N	25	D143N	40	D244N	55	D325N	70	D432N
11	D054N	26	D145N	41	D245N	56	D331N	71	D445N
12	D065N	27	D152N	42	D246N	57	D332N	72	D446N
13	D071N	28	D155N	43	D251N	58	D343N	73	D4521
14	D072N	29	D156N	44	D252N	59	D346N	74	D454N
15	D073N	30	D162N	45	D255N	60	D351N	75	D455N

DCS	D462N	82	D516N	88	D606N	94	D645N	100	D723N
77	D462N	83	D518N	89	D600N	95	D645N D654N	100	D723N
78	D464N D465N	84	D525N	90	D612N	96	D654N	101	D731N
79	D466N	85	D532N	91	D627N	97	D664N	103	D734N
80 81	D503N D506N	86 87	D546N D565N	92 93	D631N D632N	98 99	D703N D712N	104 105	D743N D754N

Technology specification

Frequency Range	76-108 MHz (Rx)
(can be suitable for different countries or areas):	136-174MHz & 350-470MHz (Rx / Tx), 136-174MHz & 400-480MHz (Rx / Tx), 136-174MHz & 420-520MHz (Rx / Tx), 136-174MHz & 400-470MHz (Rx / Tx), 136-174MHz & 245-250MHz (Rx / Tx), 136-174MHz & 216-280MHz (Rx / Tx), 136-174MHz & 225-226MHz (Rx / Tx), 136-174MHz & 430-440MHz (Rx / Tx),
Memorychannels	128 channels
Operating Voltage	7.4V
Operating Temperature	-30° C to $+60^{\circ}$ C
Working Mode	Co-channel or Dis-channel simplex
Output Power	VHF: 5W / UHF:4W
Modulation	F3E(FM)
Max. Frequency Deviation	≤ ±5KHz
Spurious Radiation	< -60dB
Frequency Stability	±2.5 ppm
Receive Sensitivity	$ $ < 0.2 μ V
Audio Output power	≥ 500mW
Dimension	58 X 105 X 39 (mm)
Weight	250g



Announce

Endeavors to achieve the accuracy and completeness of this manual, but is not liable for any possible emission and printing errors. All the above specifications are subject to change by without prior notice.

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