













Made by: Quanzhou Wouxun Electronics Co., Ltd. Add: #38 Yuantai 1st Road, Jiangnan High Technology Industry Park, Licheng District, Quanzhou 362000, Fujian, China Http://www.wouxun.com

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ISO14001:2015

**USER'S MANUAL** Certificate No.:00121E32879R4M/5100

**WOUXUN** Brand

the world.

What is meaning of WOUXUN?

"W" means "World"

"OU" means "Singing" in Chinese, representing the tone of Wouxun products is quiteexcellent

best to provide the communication equipment with the excellent tone to the usersall over

as the beautiful song.

"XUN" means "Communication" in Chinese.

The completed signification of "WOUXUN" LOGO is that Wouxun company always try the

Thanks for buying transceiver.

This transceiver offers latest design, enhanced features, solid performances and easy accessibility. We believe you will be pleased with the high quality and reliable features for all your communication needs.

# Warning /!

- » Please turn off the transceiver in explosive environment (e.g. Coal gas, Dust, Steam etc.) » Please turn off the transceiver while refueling or parking
- at the gas station.

### **Precautions**

The following suggestions will help user fulfil the obligation of warranty, and realize the security of using the transceiver.

- 1. Please put the transceiver and all accessories away from the children.
- 2. Please do not disassemble the transceiver as non-professional user maybe damage the transceiver.
- 3. Please use the company attached Batterypack and charger to avoid damaging the radio.
- 4. Please use the company attached antenna to avoid shortening communication distance.
- 4. rease use the company attached affecting to avoid shortering communication distance.
- 5. Please do not put the transceiver near to the heating appliance or expose it in the sun for a long time.
- 6. Please do not put the transceiver in extremely dusty, moist, watery or unstable place.
- 7. Please do not wash the radio with strong chemicals or strong lotion.
- 8. Please do not transmit before installing the antenna.
- 9. Turn off the power supply immediately if the transceiver emits an unusual smell or smokes, then take out the battery or Batterypack and notify dealer.

# NOTE \land

- >> All the above suggestions are used for radios and accessories. Please contact with dealer once the radios and accessories cannot be used.
- >> Once the accessories are not produced by company, the radio security and operation will not be warranted.

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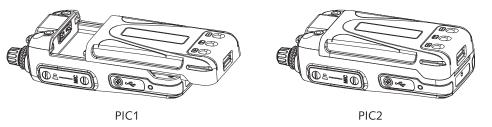
## Installing before use

#### ■ Install / remove batterypack

The batterypack is not fully charged before leaving factory. Please charge it before use.

## NOTE <u></u>

- >> Do not shortcircuit the terminals or put the batterypack into fire.
- >> Do not try to remove the case from the batterypack.
- **1.** Please aim the batterypack at the back of the transceiver, and then push up and press down the batterypack to lock the release latch. (PIC1)
- **2.** If you want to remove the batterypack, push down the release latch, and the batterypack will be released from the transceiver. (PIC2)

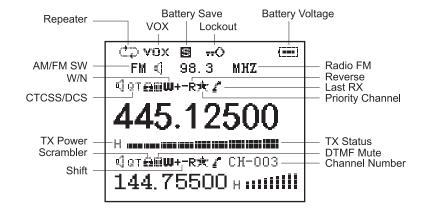


## **Getting Started**

### **Description of Transceiver**

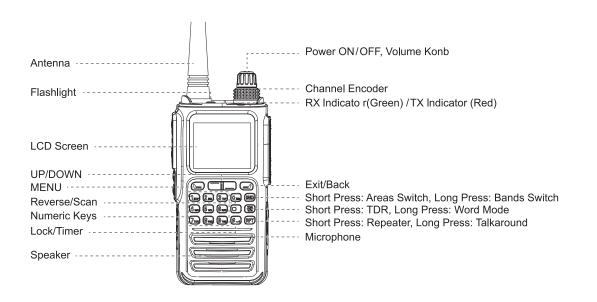
### LCD Display

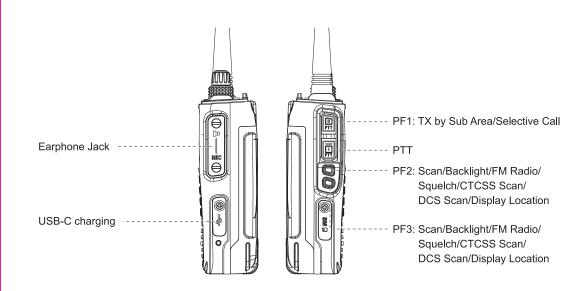
There are various indicators display on the screen when powering on. Please refer the below table to learn what the indicators stand for accordingly.



01 02

## **Getting Started**





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## Description for main functions

#### Multi Modes

- 1. Two-Way Mode
- 2. Cross-Band Directional Repeater Mode or Cross-Band Two-Way Repeater Mode Remark: Please make the above settings by RPT button.
- 1) This device is dual display for two areas which are separate display for both work modes. The message on the main area will be amplified display, while the message on the sub area will be reduced display instead.
- 2) Please make the separate settings for both work modes. Please switch it to main area before settings.
- 3) Some functions are disable when Cross-Band Directional Repeater Mode or Cross- Band Two-Way Repeater Mode.

## **Basic Operations**

Quick Search
 Short press ( ▲ ) or ( ▼ ) every time is possible to search one of the settings or options, while long press ( ▲ ) or ( ▼ ) is possible to quickly search the settings or options.

## 2. MENU

Short press MENU is possible to enter into the sub menu (for main area or sub area) for settings, while long press MENU is possible to enter into the main menu (for whole transceiver) for settings.

#### 3. BAND

Short press BAND is possible to switch the main area and sub area, while long press BAND is possible to switch the bands for this transceiver.

## $4. \frac{TDR}{V/M}$

Short press is possible to switch the single display and dual display, while long press possible to switch the work modes like Frequency, CH-Name, CH-Number, CH-Frequency.

#### 5. **RPT**

Short press (RPT) is possible to switch the Two-Way Radio Mode and Repeater Mode, while long press (RPT) is possible to select talkearound and repeater functions.

#### 6. \* SCAN

Short press \* is possible to activate the reverse function, while long press \* is possible to activate scan function.

## Description for main functions

7. #...

Short press #... is possible to activate the timer function, while long press #... is possible to activate keypad locking function.

#### 8. DTMF

Press the numeric keys or functional buttons when the device is transmitting, then it sends out the DTMF tones. Please check the layout below,

						А	В		С	D
1 <sub>STEP</sub>	2 <sub>sol</sub>	3 тхр	* SCAN	BAND		1	2	3	*	
4 was	5 BCL	6 RCTC		TDR V/M	_	4	5	6	0	
71010	8 RHOCS	9 <sub>1405</sub>	#	RPT		7	8	9	#	

#### 9. Intelligent Charger

It voice prompts "low voltage" when the batterypack is in the low status, and there is "DI" sound every 5 seconds.

1) Please connect the intelligent charger to the power (AC:90-240V), the red LED flashes once and it gets ready for charging.

2) Please insert the batteries into the intelligent charger, the red LED keeps flickering and it is being charged. It is full charged when green LED is ON.

## NOTE \land

- >> It starts the trickle-charge at the first beginning of charger if the battery was running out. The red LED turns on during being charged. And it changes to green when full charged.
- >> The trickle-charge is helping to protect the battery life.

#### 10. USB-C charging

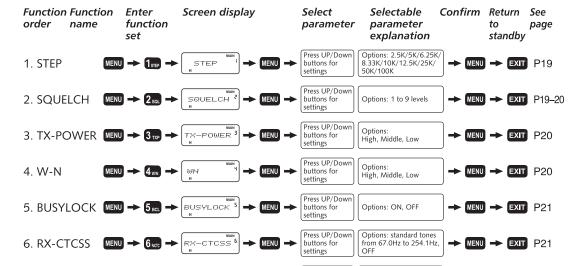
The radio also supports the USB-C charging. When charging by USB-C, the red LED on the USB port at the right side of the radio is ON. (It displays the charging status if the radio is powered on during being charged.)

## NOTE <u></u>

>> Voltage for USB-C charging is 5V 2A.

MENU → 7xm → TX-CTCSS → MENU →

## Sub Menu Options (short press MENU)



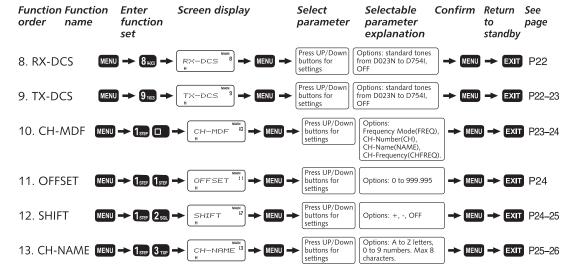
Options: standard tones

from 67.0Hz to 254.1Hz,

→ MENU → EXIT P21-22

## Sub Menu Options (short press MENU)

14. CH-ADD MENU → 1stp 4vm → CH-ADD MENU → MENU →

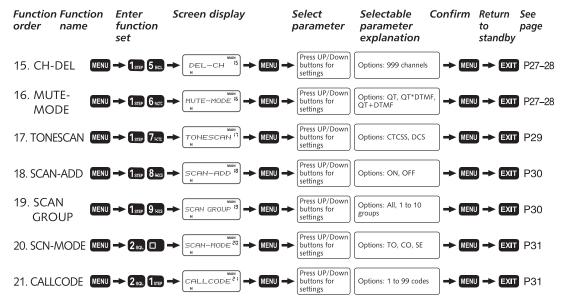


Press UP/Down

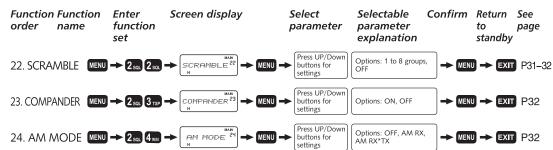
Options: 999 channels

→ MENU → EXIT P26-27

#### Sub Menu Options (short press MENU)

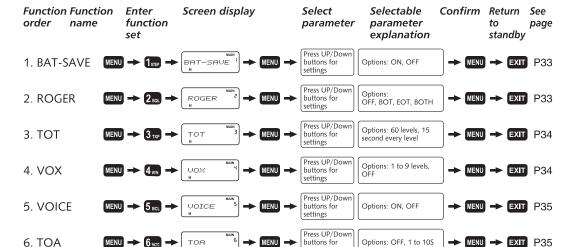


#### Sub Menu Options (short press MENU)



MENU → 7<sub>tere</sub> → BEEP

## Main Menu Options (long press MENU )

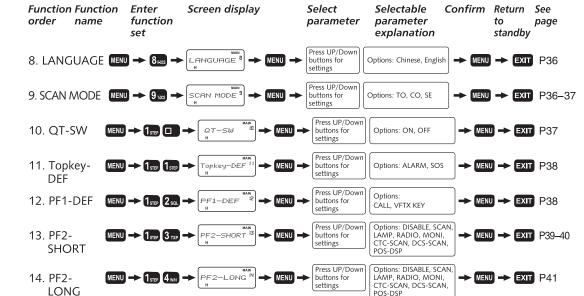


buttons for

Options: ON, OFF

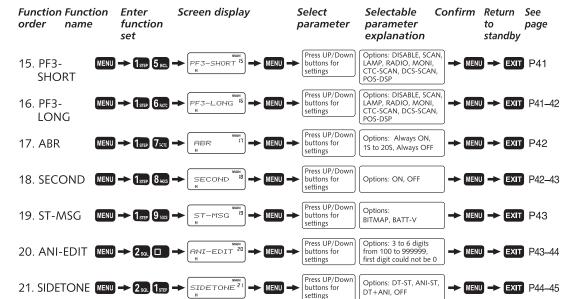
→ MENU → EXIT P36

## Main Menu Options (long press MENU)

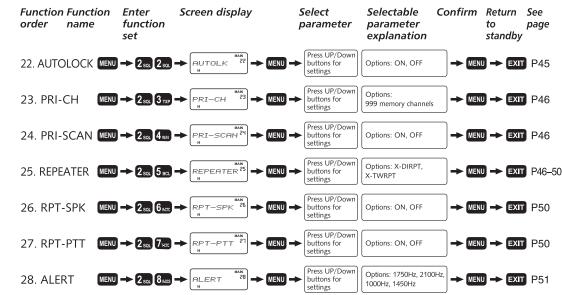


7. BEEP

### Main Menu Options (long press MENU )



## Main Menu Options (long press MENU )



## Main Menu Options (long press MENU )

**Function Function** Enter Screen display Select Selectable Confirm Return See order function name parameter parameter to page standby set explanation Press UP/Down Options: 100ms, 200ms MENU -> 2 sol 9 ros -> ID-DLY 23 → MENU → EXIT P51 29. ID-DLY

- Options:
- 30. PTT-ID → MENU → EXIT P51-52 вот, вот, вотн

Options:

- MENU → 3 TXP 1 STEP → RING 31. RING → MENU → EXIT P52 1 to 10 levels, OFF
- 32. RPT-TONE MENU -> 3 TXP 2 SOL -> RPT-TONE 32 -> MENU -> Options: ON, OFF → MENU → EXIT P52
- 33. SCAN-QT MENU -> 3 TO 3 TO SCAN-QT AND -> Fress UP/Down buttons for Options: ALL, DECODER → MENU → EXIT P53
- Options: 34. SP-MUTE MENU -> 3TXP 4WN -> SP-MUTE SP-MUTE → MENU → EXIT P53-54
- OFF, TX, RX, TX/RX MENU - 3 TXP 5 BCL - RESET 35. RESET Options: VFO, ALL → MENU → EXIT P54

# Main Menu Options (long press MENU )

Function Function Enter Screen display order function name set

Select

parameter parameter explanation

Selectable

Options: 1 to 10 levels

Options: White 1/ White 2/Black 1/Black 2/

Press UP/Down MENU → 3 TXP 6 ACIC → BRT-ACTU 36 → MENU → buttons for

Press UP/Down

buttons for

→ MENU → EXIT P54 Options: 1 to 10 levels

Confirm Return See

to

standby

→ MENU → EXIT P55

→ MENU → EXIT P55–56

page

MENU → 3 TXP 7 TOTE → BRT-STB + 37 → MENU →

38. FM RADIO MENU -> 3 TXP 8 ROS -> MEMORY 38 -> MENU -> buttons for

Options: Read: 01 to 20 groups, Memory: 01 to → MENU → EXIT P55

39. DISY MODE MENU → 3 TEP 9 TEST MODE 33 → MENU → buttons for

40. TIME DSY MENU → 4 TIME DSP 40

Press UP/Down

Options: ON, OFF → MENU → EXIT P56-57

buttons for buttons for

Options: GMT/GMT+-1/ GMT+-2/GMT+-3/GMT +-4/GMT+-5/GMT+-6/ → MENU → EXIT P57 GMT+-7/GMT+-8

41. TIME/ZONE MENU -> 4wn 1stp -> TIME/ZONE 91 -> MENU -> 42. LOCATION MENU → 4wn 2sal → LOCATION SE → MENU →

Press UP/Down Options: GPS SW, → MENU → EXIT P57-58 buttons for DSP POS, SEND TYPE

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## Functions list under Sub Menu (Short Press MENU button)

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

In standby, press MENU + 1<sub>STEP</sub>, the screen displays STEP

Press wenu to enter, press / to select the desired step, then press wenu to confirm, finally press to return to standby.

The frequency steps selectable for this transceiver are as follows:

5.00KHz, 6.25KHz, 8.33KHz, 10.00KHz, 12.50KHz, 25.00KHz, 50.00KHz and 100KHz.

#### Squelch Setting- (SQUELCH) ---- MENU 2

Squelch level is about when the signal is strong enough to turn on the squelch function, and when it is weak enough to turn off. You may hear the voice from the loudspeaker when turning ON the squelch and receiving the same signal from other transceivers. Higher level makes it harder to receive the weak signals, while lower level will be interfered by noises and/or unwanted signals.

In standby, press  $\underbrace{\text{MENU}}_{\text{H}} + \underbrace{\text{2sql}}_{\text{sq}}$  , the screen displays  $\underbrace{\text{SQUELCH}^2}_{\text{H}}$ 

Press MENU to enter, press / to select the desired squelch level, then press MENU to confirm, finally press EXIT to return to standby.

## NOTE 🔨

>> The squelch level for this transceiver has 0-9 levels selectable, and level 0 means turn off the squelch function.

The higher level of the squelch is set, the stronger receiving signal is needed.

#### Transmitting Power Selection (TX-POWER) ---- MENU 3

In standby, press  $\longrightarrow$  3 to  $\rightarrow$  , display  $\left[\begin{array}{c} \text{TX-POWER}^3 \end{array}\right]$ 

Press MENU to confirm, and press / to select the power level then press MENU to confirm, and press EXIT to back to standby.

Options: High, Middle, Low

#### Bandwidth (W-N) ---- MENU 4

In standby, press MENU + 4mm, the screen displays menu

Press MENU to enter, it shows 'WIDE', press 🔼 / 🔽 to select WIDE/NARROW bandwidth, then press

MENU to confirm, finally press **EXIT** to return to standby.

There are two bandwidths for option:WIDE:25KHz and NARR:12.5KHz

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#### Busy Channel Lockout (BUSYLOCK) ---- MENU 5

In frequency mode, press MENU + 5 to the screen displays BUSYLOCK'S

Press MENU to enter, press / v to select ON/OFF this function, then press MENU to confirm, finally press EXIT to return to standby.

Note: This function is invalid in cross band repeater or repeater/transmitter modes.

#### Receiving CTCSS (RX-CTCSS) ---- MENU 6

When the transceiver is standby, press the MENU + 6 Tor keys and the screen will display Press the MENU key to access the menu, and after pressing the / key to select the CTCSS you desire, press the MENU key to confirm, and press the EXIT key to return to standby.

CTCSS has a total of 5 groups, ranging from 67.0-254.1Hz. OFF: Deactivate

Non-Standard CTCSS is ranging from 65.0 to 260.0Hz

#### Transmitting CTCSS (TX-CTCSS) ---- MENU 7

When the transceiver is standby, press the NENU + 1 keys and the screen will display Press the NENU key to access the menu, and after pressing the key to select the CTCSS you desire, press the NENU key to confirm, and press the NENU key to return to standby.

CTCSS has a total of 5 groups, ranging from 67.0-254.1Hz. OFF: Deactivate Non-Standard CTCSS is ranging from 65.0 to 260.0Hz

#### Receiving DCS (RX-DCS) ---- MENU 8

When the transceiver is standby, press the **MENU** + **8** we keys and the screen will display Press the **MENU** key to access the menu, and after pressing the **MENU** key to select the DCS you desire, press the **MENU** key to confirm, and press the **MENU** key to return to standby.

DCS: 105 groups of positive code, 105 groups of negative code, ranging from D023N to D754I. OFF: Deactivate.

#### Transmitting DCS (TX-DCS) ---- MENU 9

When the transceiver is standby, press the **MENU** + **9** keys and the screen will display Press the **MENU** key to access the menu, and after pressing the **A** / **V** key to select the DCS you desire, press the **MENU** key to confirm, and press the **EXIT** key to return to standby.

Non-standard DCS is configured by three numbers from 001 to 777 excluded 8 or 9. For example, 680.719 is illegal non-standard DCS tone.

Please press #... to select the positive or negative codes, and press \*\* to turn off the DCS tone.

$\overline{}$									$\overline{}$
СТ	CSS								
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
10	91.5	20	127.3	30	167.9	40	199.5	50	254.1

DO	CS												
1	D023N	16	D074N	31	D165N	46	D261N	61	D356N	76	D462N	91	D627N
2	D025N	17	D114N	32	D172N	47	D263N	62	D364N	77	D464N	92	D631N
3	D026N	18	D115N	33	D174N	48	D265N	63	D365N	78	D465N	93	D632N
4	D031N	19	D116N	34	D205N	49	D266N	64	D371N	79	D466N	94	D645N
5	D032N	20	D122N	35	D212N	50	D271N	65	D411N	80	D503N	95	D654N
6	D036N	21	D125N	36	D223N	51	D274N	66	D412N	81	D506N	96	D662N
7	D043N	22	D131N	37	D225N	52	D306N	67	D413N	82	D516N	97	D664N
8	D047N	23	D132N	38	D226N	53	D311N	68	D423N	83	D523N	98	D703N
9	D051N	24	D134N	39	D243N	54	D315N	69	D431N	84	D526N	99	D712N
10	D053N	25	D143N	40	D244N	55	D325N	70	D432N	85	D532N	100	D723N
11	D054N	26	D145N	41	D245N	56	D331N	71	D445N	86	D546N	101	D731N
12	D065N	27	D152N	42	D246N	57	D332N	72	D446N	87	D565N	102	D732N
13	D071N	28	D155N	43	D251N	58	D343N	73	D452N	88	D606N	103	D734N
14	D072N	29	D156N	44	D252N	59	D346N	74	D454N	89	D612N	104	D743N
15	D073N	30	D162N	45	D255N	60	D351N	75	D455N	90	D624N	105	D754N

#### Work Modes (CH-MDF) ---- MENU 10

In standby, press MENU + 1sep 

, screen displays 

CH-MDF

Press MENU to confirm, and press / To select the work mode then press MENU to confirm, and press EXIT to back to standby.

Options: FREQ, CH, CHFREQ, NAME

## NOTE 🔨

- >> It supports to program password to switch the work mode.
- >> The password is invalid if the password is configured by six 0 (it means there is no password needed), otherwise, the password is working.

### Offset Frequency (OFFSET) ---- MENU 11

In standby, press MENU + 1step, and the screen display

Press will to access the menu, press \( \) to select the parameter you desire, and then presss to confirm, press \( \) to return to standby.

Offset frequency range:0-599.995MHz, The 7th and 8th frequency point depends on the programmed step frequency.

#### Shift Direction (SHIFT) ---- MENU 12

In standby, press MENU + 1step 2sol, The screen display

SHIFT 12

Press (menu) to enter, press (menu) to select the desired frequency shift direction, then press (menu) confirm, press (menu) it return to standby.

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There are three selections for the frequency shift direction setting:

- 1. Plus shift (+), which means that the transmitting frequency is higher than the receiving frequency.
- 2. Minus shift (-), which means that the transmitting frequency is lower than the receiving frequency.
- 3. Turn off this function

# NOTE \land

>> When offset frequency is out of the allowed offset frequency range, the transceiver can not transmit. In this case, please make sure the offset frequency and receiving frequency is within the allowed range.

#### Channel Name Edit (CH-NAME) ---- MENU 13

Channel names can only be edited in channel mode, and only the name of the present channel can be edited this operation is ineffective in frequency mode.

In standby, press MENU + 1<sub>SIE</sub> 3<sub>TO</sub> keys and the screen will display CH-NAME B

Press were to access the menu, and the first digit will flash (which indicates that this digit is being edited).

Press to choose the required character, press to edit the next character, press to confirm, and then press to return to standby.

## NOTE <u></u>

- >> 1.Channel names can be maximum of 8 characters long.
- >> 2.When all 8 characters are empty, the channel will be displayed on the screen as "NO-NAME!"

#### Channel Adding (CH-ADD) ---- MENU 14

In channel mode or standby, press MENU + 1stp 4mm , the screen displays

Press MENU to access the menu, press / v to select the desired channel order, and then press

MENU to memorize with a voice prompt. Press **EXIT** to return to standby.

When the transceiver is in channel(MR) mode, the parameters(except channel name and scan adding) will be memorized into the channel.

When the transceiver is in frequency(VFO) mode, you can program all the parameters(frequency, offset, offset directions etc.) into the channel to memorize.

#### Example:

Memorize the parameters: "Receiving frequency 450.025MHz, receiving CTCSS is 67.0Hz, transmission frequency is 460.025MHz" into the Channel NO.10.

1. Inputting 450.025MHz to the transceiver in frequency(VFO)mode, press MENU + 6 to access

receiving CTCSS/DCS setting, press / To select 67.0Hz, press to confirm.

- 2.Press MENU + 1stp 1stp to select the offset frequency is 10.000MHz, press MENU + 1stp 2sol to set the frequency direction as "+".
- 3.Press MENU + 1sep 4mm to access channel memory, select CH-010 and press MENU to memorize the channel and return to standby.

In standby, press MENU + 1 to access channel memory, the screen displays , input the desired channel number orderly, and then press MENU to confirm.

# NOTE \land

>> When the selected channel is empty (without any parameter), the characters of the channel number is blue, while the selected channel is with the memorized parameters, the characters of the channel number is dark red.

#### Channel Delete (DEL-CH) ---- MENU 15

Press MENU to access the menu, press / To select the channel you wish to delete or manually inputting the channel number, press MENU to confirm and the EXIT key to return to standby.

- >> 1st channel can not be deleted.
- >> When the selected channel is empty (without any parameter), the color of the channel number is white, while the selected channel is with the memorized parameters, the color of the channel number is purple.

#### Mute Mode (MUTE-MODE) ---- MENU 16

In standby, press  $MENU + 1_{STEP} 6_{RGT}$ , the screen displays



Press MENU to access the menu, and after pressing / To choose the required mute mode, press MENU to confirm, and press EXIT to return to standby.

Squelch settings: set the conditions which determine when the speaker shall be turned on, these settings are used during selective calls, group calls and all calls.

The transceiver's mute mode include:

QT: When the transceiver is set to this mode, all signals on the same QT frequency will activate the speaker.

QT+DTMF: only those signals which both satisfy the requirements of QT and whose DTMF carrier wave

signal also match the transceiver will activate the speaker in this mode.

QT\*DTMF: When this mode is active, only those signals which either meet QT requirements or DTMF requirements will activate the speaker.

#### Scanning Tone (TONESCAN) ---- MENU 17

This function is scanning the programmed frequencies or channels with CTCSS/DCS or not. When the CTCSS/DCS are not compatible with the one you are going to communicate with, it stops the regular communication.

In standby, press MENU + 15EP 7-CD , screen displays TONESCAN TO Select CTCSS or DCS, then Press MENU to confirm and start the scan.

## Special Reminder 🛆

- » if there is no carrier received on the scanned frequencies or channels, the function is not activated.
- >> pls use the \_\_\_\_ / \_\_\_ to change the direction for scanning.
- >> it stopes on the frequency or channel which is programmed with CTCSS/DCS, pls press to save by yourself if needed. Pls press to continue to scan the next frequencies or channels if not needed.

#### Scan Adding (SCAN-ADD) ---- MENU 18

This function means whether a channel in scanning when in the startup channel scanning, so the function can be set only in the channel mode under the current channel, is invalid in frequency mode.

In standby, press  $\underbrace{\text{MENU}}_{\text{H}} + \underbrace{\text{1}_{\text{SIE}}}_{\text{Bloss}}$  , the screen display  $\underbrace{\text{SCAN-ADD}}_{\text{H}}^{\text{Bloss}}$ 

Press MENU to access, press / To select ON/OFF. And then press MENU to confirm, and press to return to standby.

Note: The function is invalid in cross-band repeater or repeater/transmitter mode.

#### Scan Group (SCAN GROUP) ---- MENU 19

The scan group settings are the way that a transceiver can divide the programming channels into different scan groups.

Scan group settings are: ALL channel, as well as 1-10 individual scanning groups.

In standby, press  $MENU+1_{SUP}$  9 as , the screen displays scan group 19

Press / v to press MENU to confirm, press EXIT to return.

Note: Scanning group A setting is active in A area.

#### Scan Mode (SCAN-MODE) ---- MENU 20

When the transceiver is standby, press the MENU + 200 , keys and the screen will display SCAN-MODE TO Press the MENU key to access the menu, and after pressing the / w keys to select the required setting, press the MENU key to confirm, and the EXIT key to return to standby

The transceiver has 3 scan modes:TO,CO,and SE:

#### Call Code (CALLCODE) ---- MENU 21

In standby, press MENU + 2so. 1sp , the screen displays

Press MENU to access the menu, press / To select the desired selective call group number. Press MENU to confirm, and the transceiver returns to standby.

Selective call code are with 0-99 groups for option. Selective call codes are programmed via supplied software.

#### Scrambler (SCRAMBLE) ---- MENU 22

This is a special voice process to keep the communication confidential from other non-users.

In standby, press  $\underbrace{\text{MENU}}_{\text{L}} + \underbrace{\textbf{2}_{\text{SQL}}}_{\text{SQL}}$  , screen display  $\underbrace{\text{SCRAMBLE}^{\text{RMN}}}_{\text{H}}$ 

Press MENU to enter the function, then press / V to select the parameter and then MENU to confirm,

while press MENU to return back to the standby.

There are 8 groups for selection, OFF is to turn off this function then.

#### Compander (COMPANDER) ---- MENU 23

This is for decreasing the voice squelch, and it is highly efficient for long-term communication.

In standby, press  $\underbrace{\text{MENU}}_{} + \underbrace{\textbf{2}_{\text{Sol}}}_{} \underbrace{\textbf{3}_{\text{TOP}}}_{}$  , screen display

Press MENU to enter the function, then press / v to select the parameter and then MENU to confirm, while press to return back to the standby.

There is ON and OFF selectable.

#### AM Mode SW (AM MODE) ---- MENU 24

In standby, press MENU + 2so. 4wn , screen displays AM MODE 24

Press MENU to confirm, and press / to select the work mode then press MENU to confirm, and press EXIT to back to standby.

## 

>> AM mode is only working in A area.

### Functions list under Main Menu (Long Press MENU button)

BOTH (beginning and end of transmission), and OFF (prompts deactivated).

#### Battery Saver (BAT-SAVE) ---- MENU 1

Press MENU to confirm, and then press EXIT to return to standby.

When the power saver function is ON, the receiver circuit will be cut off for a moment, and then re-activate to detect the signals for a while, in order to reduce the battery capacity consumption.

In standby, press MENU + 1sep , the screen displays Press MENU to enter, it shows 'ON' , press A / To select turn ON/OFF the power saver funtion.

## Roger (ROGER) ---- MENU 2

When the transceiver is standby, press the keys and the screen will display:

ROGER

R

#### Transmit Out Timer (TOT) ---- MENU 3

This transceiver can be set in 60 levels with 15 seconds each, between 15 and 900 seconds.

In standby, press MENU + 3 TED , the screen displays TOT

Press MENU to enter, press / to select the desired timer level, then press MENU to confirm, finally press EXIT to return to standby.

#### VOX (VOX) ---- MENU 4

In standby, press  $\underbrace{\mathbf{MENU}}_{\mathbf{H}} + \underbrace{\mathbf{4}_{\mathbf{MN}}}_{\mathbf{H}}$ , the screen displays  $\underbrace{\mathbf{Vox}}_{\mathbf{H}}$ 

Press MENU to enter, press / To select VOX level(1-9), then press MENU to confirm, finally press EXIT to return to standby.

## NOTE <u>∧</u>

>> The higher level of VOX is set, the higher volume is needed.

>> In SCAN and FM radio modes, the VOX function is not available.

#### Voice Guide (VOICE) ---- MENU 5

In standby, press MENU + 5 and , the screen displays

Press MENU to enter, press / to select ON or OFF, and then press MENU key to confirm, finally press EXIT to return to standby.

## NOTE \land

>> Turn off MENU 9 and MENU 11 at the same time to turn off all the voice prompt if required.

#### Transmit Out Alert (TOA) ---- MENU 6

In standby, press MENU + 6 on , the screen displays

Press the MENU key to access the menu, and after pressing the / keys to select the required time, press the MENU key to confirm, and the EXIT key to return to standby.

TOA has a maximum length of 10seconds, each level corresponding to 1second. OFF: Deactivate TOA.

## Special Reminder 🛆

>> When the transmission exceeds the "Time-out timer" set time, a error tone will prompt, and transmission is stopped automatically.

#### Beep Prompt (BEEP) ---- MENU 7

In standby, press  $MENU + 7_{KR}$ , the screen displays  $\begin{bmatrix} BEEP \\ H \end{bmatrix}$ 

Press wenu to enter, press / to turn ON/OFF the beep prompt function, then press wenu to confirm, finally press exit to return to standby.

### Language (LANGUAGE) ---- MENU 8

In standby, press MENU + 8 the screen display

Press MENU to access the function, press / to select the desired language, and then press MENU to confirm, press EXIT to return to standby mode.

Two Options: CHINESE and ENGLISH

#### Scan Mode (SCAN MODE) ---- MENU 9

In standby, press MENU + 9 as , the screen display SCAN MODE 3

Press MENU to access the function, press / to select the desired language, and then press MENU to confirm, press EXIT to return to standby mode.

Two Options: CHINESE and ENGLISH

TO: after finding a carrier wave signal, scanning will continue if no operations are carrier out within 5 seconds.

CO: scanning will stop when a carrier wave signal has been found, and scanning will continue if the carrier wave signal is lost for 3 seconds.

SE: scanning will stop when a carrier wave signal is found.

# NOTE \land

>> Hold on \* for 2 seconds to access the scan mode.

#### Scan Tones SW (QT-SW) ---- MENU 10

In standby, press MENU + 1stp , screen displays , screen

Press MENU to confirm, and press / v to select if scanning tones then press MENU to confirm, and press EXIT to back to standby.

Options:

OFF: Will not scan tones when scanning in Channel or Frequency mode.

ON: Will scan tones when scanning in Channel or Frequency mode.

#### Topkey options (Topkey-DEF) ---- MENU 11

In standby, press MENU +  $1_{\text{SIE}}$   $1_{\text{SIE}}$ , screen displays  $\left[\begin{array}{c} T_{\text{Opkey-DEF}}^{\text{MAN}} \\ T_{\text{Opkey-DEF}}^{\text{MAN}} \end{array}\right]$ .

Press MENU to confirm, and press / v to select the option then press MENU to confirm, and press EXIT to back to standby.

Options: ALARM, SOS

### PF1 options (PF1-DEF) ---- MENU 12

In standby, press MENU + 1sts 2sol, screen displays PFI-DEF

Press MENU to confirm, and press / v to select the option then press MENU to confirm, and press EXIT to back to standby.

Options: CALL, VFTX

## NOTE \land

>> Selective Calls could be programmed by the matching software.

## PF2 Short Press options (PF2-SHORT) ---- MENU 13

In standby, press MENU + 1stp 3 TOP , screen displays PF2-SHORT 13

Press MENU to confirm, and press / v to select the option then press MENU to confirm, and press EXIT to back to standby.

Options: DISABLE, SCAN, B-LIGHT, RADIO, MONITOR, CTC-SCAN, DCS-SCAN, POS-DSP. Please refer to the description fro above options.

#### 1. SCAN

Press PF2 to select the scan option( please go to MENU9 to set the scan mode) and then scanning function activates, press any key or button to stop the scanning.

#### 2. B-LIGHT

Press PF2 to select the B-LIGHT option to activate B-LIGHT function and then press PF2 again to stop the B-LIGHT working.

- 3. RADIO
- Press PF2 to select the FM RADIO option to activate the RADIO function.
- FM RADIO is working, screen displays TEGMHZ, then press to start searching the stations. It stops in the working station for listening.

- Please press PF2 again in RADIO mode, screen displays , then press RPT screen displays , which is possible to enter into the station frequency directly.
- Exit from FM RADIO mode

Please press PF2 to exit from FM RADIO mode.

- Memory and Read in FM RADIO mode Please refer to MENU 38 in details.
- 4. MONITOR

Press PF2 select MONI option to activate the monitor function. Press PF2 again to turn off monitor function.

5. CTC-SCAN

Press PF2 select CTC-SCAN option to start scanning CTCSS tones. Press PF2 again to turn off the function.

6. DCS-SCAN

Press PF2 select DCS-SCAN option to start scanning DCS tones. Press PF2 again to turn off the function.

7 POS-DSP

When the GPS is ON, please PF2 to display the location.

### PF2 Long Press Options (PF2-LONG) ---- MENU 14

In standby, press MENU + 1stp 4wm , screen displays FF2-LONG N

Press MENU to confirm, and press / v to select the option then press MENU to confirm, and press EXIT to back to standby.

Options: DISABLE, SCAN, B-LIGHT, RADIO, MONITOR, CTC-SCAN, DCS-SCAN, POS-DSP. Please refer to the detailed instructions for the options in MENU 13 above.

#### PF3 Short Press Options (PF3-Short) ---- MENU 15

In standby, press  $\underbrace{\text{MENU}}_{\text{s.f.}} + \underbrace{\textbf{1}_{\text{SEP}}}_{\text{SEQ}}$ , screen displays  $\begin{bmatrix} \text{PF3-SHORT}^{\text{MANN}} \\ \text{H} \end{bmatrix}$ 

Press MENU to confirm, and press / v to select the option then press MENU to confirm, and press EXIT to back to standby.

Options: DISABLE, SCAN, B-LIGHT, RADIO, MONITOR, CTC-SCAN, DCS-SCAN, POS-DSP. Please refer to the detailed instructions for the options in MENU 13 above.

#### PF3 Long Press Options (PF3-LONG) ---- MENU 16

In standby, press MENU +  $1_{\text{STE}}$   $6_{\text{MID}}$  , screen displays  $\left[\underset{\text{H}}{\text{PF3-LONG}}\right]^{\text{MANN}}$ 

Press MENU to confirm, and press / To select the option then press MENU to confirm, and

press **EXIT** to back to standby.

Options: DISABLE, SCAN, B-LIGHT, RADIO, MONITOR, CTC-SCAN, DCS-SCAN, POS-DSP.

Please refer to the detailed instructions for the options in MENU 13 above.

#### Backlight (ABR) ---- MENU 17

Press MENU to confirm, and press / To select the backlight option then press MENU to confirm, and press EXIT to back to standby.

Options: Always on, 1S to 20S, Always OFF

#### Second (SECOND) ---- MENU 18

In standby, press MENU + 1589 8 800 , The screen display SECOND 88

Press MENU to enter, / To select ON/OFF, then press MENU confirm, press EXIT to standby.

Using the stopwatch timer:

When this function is ON, press # to start counting, while press any key to stop working. Press MENU again to re-start counting.

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>> Press any key (except MENU) when the stopwatch stops working to exit the stopwatch function.

#### Startup Message (ST-MSG) ---- MENU 19

In Standby, press MENU + 1stp 9tts, the screen displays ST-MSG ST-MSG

Press MENU to enter the function, then press / to select the parameter and then MENU to confirm, while press MENU to return back to the standby.

BITMAP: Picture

BATT-V: Voltage

#### ANI ID Setting (ANI-EDIT) ---- MENU 20

The transceiver's Caller ID code is composed of the arabic numerals 0-9: the first digit cannot be 0, and ID numbers can be as short as 3 digits and as long as 6.

In standby, press MENU + 2so , the screen displays FRI-EDIT 20

Press MENU to access the menu, and after inputting the required numbers, press MENU to confirm, and EXIT key to return to standby.

Example 1:editing a 6-digit ANI ID code(123456).

After pressing MENU key, the first digit will flash, then input the required value 123456.

Press MENU to confirm, and press EXIT to return to standby.

Example 2:editing a 3-digit Caller ID code(123)

In standby, press  $MENU + 2s_0$  , the screen displays  $RIJ - EDIT^{20}$ 

After pressing MENU, if a Caller ID code has been already input, it will be displayed, and the first digit will flash. If no Caller ID code has been input, 101 will be displayed, and the first digit will flash. Input 123 at the same time, press LEVIL to confirm, press LEVIL to return to standby.

## Special Reminder 🗥

>> Each transceiver can have only one ANI ID code, which is shared by Area A and B.

#### Sidetone (SIDETONE) ---- MENU 21

In frequency mode, press MENU + 2<sub>SO</sub> 1<sub>SID</sub>, The screen display

Press MENU to enter, press / To select the required sidetone mode, and press MENU to confirm, press EXIT it return to standby.

The transceiver has the following DTMF modes: 1. DT-ST: Keypad sidetone will be activated when transmitting; 2. ANI-ST: ANI ID code sidetone will be activated when transmitting; 3. DT+ANI: keypad and caller ID sidetone are both activated when transmitting. OFF: Deactivate sidetone function.

#### Auto Lockout (AUTOLOCK) ---- MENU 22

In standby, press MENU +  $2_{\text{SQ}}$   $2_{\text{SQ}}$  , the screen displays  $\mathbb{R}^{\text{MUTOLK}}$ 

Press MENU to access the menu, press / v to select ON(Activate)/OFF(Deactivate), and then press MENU to confirm, press exit to return to standby.

After activating keypad autolock function, the keypad will be locked automatically without any operation in 15seconds. Hold on # for 2seconds to unlock the keypad.

## NOTE <u></u>

>> Manually lock:In standby, hold on # for 2 seconds to lock the keypad, hold on # for 2 seconds again to unlock the keypad.

#### Priority Channel SW (PRI-CH) ---- MENU 23

In standby, press MENU +  $2_{SOL}$   $3_{TOP}$ , the screen display  $\begin{bmatrix} PRI-CH & MONN \\ PRI & PRI &$ 

Press MENU to access, press / To select ON/OFF. And then press MENU to confirm, and press EXIT to return to standby

If you want to monitor the other frequency and check the certain preferred frequency at the same time, you can set priority scan function.

#### Priority Channel Scanning (PRI-SCAN) ---- MENU 24

Press MENU to confirm, and press / To select if adding the priority channel to scan list press

MENU to confirm, and press **EXIT** to back to standby.

Options: ON, OFF

#### Repeater Mode (REPEATER) ---- MENU 25

This transceiver has 2 repeater setting available:

- 1.X-DIRPT: Directional cross-band repeater mode
- 2.X-TWRPT:Two way cross-band repeater mode

# Special Reminder 🛆

47

In cross-band repeater mode, if the channel or frequency set the reverse frequency, offset frequency, or offset direction, its transmitting frequency would out of the transceiver's frequency, then it will not transmit.

Master frequency and sub frequency for repeater should be on different bands. (For example, master frequency is programmed on VHF band, and the sub frequency should be programmed on UHF band, and vice versa.)

X-DIRPT (Directional cross-band repeater): The master VFO's receiving frequency is the cross-band receiver's receiving frequency, and the sub VFO's transmitting frequency is the cross-band transmitter's transmitting frequency.

ency.

X-TWRPT (Two way cross-band repeater): In standby, both the master and secondary VFO's are receivers, whichever VFO receives an effective carrier-wave signal, the other VFO will be the transmitter and start transmitting. The transmitter and receiver is unfixed under two way cross-band

repeater mode. The first received VFO is receiver and relatively the other one is transmitter.

After accessing cross-band repeater mode, the operation of receiving /transmission frequencies, CTCSS/DCS encoding& decoding are the same as the transceiver is in transceiver communication mode.

#### Example:

- A. Before accessing cross-band repeater mode, A area is in channel mode. The receiving frequency and CTCSS/DCS in cross-band repeater mode are the same with the channel in standby.
- After B area receives the effective signal, A area starts transmission. The transmitting frequency and CTCSS/DCS in cross-band repeater mode are the same with the channel in A area.
- If setting reverse frequency function, the transmission&receiving frequencies and CTCSS/DCS will be reverted.
- B. Before accessing cross-band repeater mode, A area is in frequency mode. The receiving frequency and CTCSS/DCS in cross-band repeater mode are the same with the setting in standby.

  After B area receives the effective signal, A area starts transmission. The receiving frequency and CT-

A mile mile man received to an initial and a man and a man and a man and a man a man and a man a man and a man a m

CSS/DCS in cross-band repeater mode are the same with the channel in A area.

If setting reverse frequency function, the transmission&receiving frequencies and CTCSS/DCS will be reverted.

To select if you will open speaker for the receiver in cross-band repeater via MENU26 (RPT-SPK) ,and if you would like to hold on PTT key to transmit in repeater mode via MENU27 (RPT-PTT). But if you press PTT key to transmit, the transceiver exits the repeater mode temporarily.

In standby, press MENU + 2so 5so the screen displays REPERTER 2S

Press MENU, press / To select the mode you desire, and then press MENU again.

## Special Reminder \land

- » In cross-band repeater mode, the screen will display 🗘 .
- >> Switching transceiver communication and repeater modes via RPT . In standby, hold on RPT for 2 seconds to switch the modes.
- >> In order to use the repeating well, there is the Repeating Receipt Tone which is set by MENU 47. The repeating receipt tone timely and effectively reports the working status and increases the efficiency of repeating.

>> The Repeating Hold Timer is used for avoiding to press or release PTT too frequently in order to read out the message. When the receiver was released PTT, the hold time is able for the equipment keeping transmitting for a while during waiting for response. If there is no efficient QT/DQT detected within the hold time, then the transmitter will release PTT. The repeating hold timer is setting the hold time for the transmitter to keep transmitting after the QT/QDT receiving signal disappears. The function is programmable by supplied software.

#### Repeater Speaker Setting (RPT-SPK) ----- MENU 26

In standby, press MENU +  $2_{sol}$   $6_{RET}$  , the screen display  $\mathbb{RPT-SPK}^{MANN}$ 

Press MENU to access, press / v to select ON/OFF. And then press MENU to confirm, and press to return to standby.

#### Repeater PTT Setting (RPT-PTT) ---- MENU 27

In standby, press MENU + 2 sol 7 standby, the screen display RPT-PTT 27

Press MENU to access, press / to select ON/OFF. And then press MENU to confirm, and press EXIT to return to standby.

### Single Tone Impulse Frequency (ALERT) ---- MENU 28

Some of the relay systems used for single-tone pulse transmission need a single-tone pulse signal to activate, if a repeater is already active, however, this signal is not needed. The following pulse signal frequencies can be selected: 1750Hz, 2100Hz, 1000Hz and 1450Hz.

In standby, press MENU + 2so. 8 sos , the screen displays  $\begin{bmatrix} PLERT \end{bmatrix}$ 

Press MENU to access, press / To select the parameter you desire and then press MENU to confirm, press EXIT to return to standby.

In transmission mode, press PF2 to transmit the selected single-tone pulse frequency.

#### PTT ID Transmit Delay (PTT-DLY) ---- MENU 29

In standby, press MENU + 2so 9so , the screen display ID-DLY CS

Press MENU to access, press / v to select the time you want. And then press MENU to confirm, and press EXIT to return to standby.

This delay time can be set 100~3000ms, total 30 levels with 100ms each.

#### PTT ID Transmit Modes (PTT-ID) ---- MENU 30

In standby, press MENU + 3  $_{170}$   $\bigcirc$  , the screen display  ${\tiny \begin{array}{c} PTT-ID \\ \mu \end{array}}^{MMN}$ 

Press MENU to access, press / v to select the mode you want. And then press MENU to confirm, and press EXIT to return to standby.

This can be set three methods, BOT (begin), EOT (end), BOTH (begin /end).

#### Ring Time (RING) ---- MENU 31

In standby, press MENU +  $3\pi$  1 , the screen display  $\mathbb{R}^{\text{IMG}}$ 

Press MENU to access, press / v to select the parameter you want. And then press MENU to confirm, and press EXIT to return to standby.

This ring time can be set 10 seconds, total 10 levels with 1 second. OFF:Deactivate the function.

#### Repeater Tone (RPT-TONE) ---- MENU 32

In standby, press MENU + 3 TEP  $2_{SQ}$  , the screen display  $\mathbb{RPT}$  TONE 32

Press MENU to access, press / to select the parameter. And then press MENU to confirm, and press EXIT to return to standby.

ON: Activate the function

OFF: Deactivate the function

#### Scanning Tone Save Modes (SCAN-QT) ---- MENU 33

When the transceiver is in CTCSS/DCS scanning, there are 3 saving types to save the detected CTCSS/

DCS from the others to your transceiver:

- 1. Save as your transceivers decoder and encoder(ALL).
- 2. Save as your transceiver encoder (ENCODER)
- 3. Save as your transceiver decoder(DECODER)

5.5ave as your transcerver decoder(DECODE

When the transceiver is in standby, press MENU + 3 TOD keys and the screen will display Press A / Press MENU, and then press EXIT.

### Mute Mode in Sub Area (SP-MUTE) ---- MENU 34

Mute function is very practical, especially when the transceiver is in dual receiving mode.

In standby, press MENU +  $3_{TP}$   $4_{WN}$  , the screen displays  $\boxed{\text{SP-MUTE}^{\frac{NN}{3}}}$ 

Press will to access and then press / To select the parameter you desire, and then press to confirm.

OFF: Deactivate the function

TX: Transmission on master frequency, the receiving volume of sub-frequency is off.

RX: Receiving on master frequency, the receiving volume of sub-frequency is off.

#### Reset (RESET) Scanning Tone Save Modes (SCAN-QT) ---- MENU 35

Functional Parameter Reset(VFO): resets all functional settings to factory default values, but channel parameters are not reset.

Total Parameter Reset(ALL): resets all of the transceiver's functional settings and channel parameters to factory values.

In standby, press MENU +  $3_{TR}$   $5_{BG}$ , the screen displays RESET 35

Press MENU to access, press 🔼 / 🔽 to select the parameter you desire and then press EXIT to confirm

The screen will display was to war.

After the transceiver resets(VFO/ALL), it will restart and return to standby mode.

#### Backlight in Activate mode (BRT-ACTV) ---- MENU 36

In standby, press MENU + 3 TAP 6 AND , screen display BRT-ACTU 36

Press MENU to enter the function, then press \( \) to select the parameter and then MENU to confirm, while press \( \) to return back to the standby.

Level selectable for baklight setting: 01 to 10

## Backlight in Standby mode (BRT-STBY) ---- MENU 37

In standby, press MENU +  $3_{TMP}$   $7_{MEND}$  , screen display  $\mathbb{E}_{\mathbb{R}^T - STBY}^{MANN}$ 

Press MENU to enter the function, then press / to select the parameter and then MENU to confirm, while press EXIT to return back to the standby.

Level selectable for baklight setting: 01 to 10

#### FM Radio mode (FM RADIO) ---- MENU 38

FM Radio Read: In the RADIO mode, enter the menu and select the READ option. There are 20 groups for options.

FM Radio Memory: In the RADIO mode, enter the menu and select the MEMORY option. There are 20 groups for options.

In RADIO mode, please press MENU + 3 TO 8 S , screen displays

Press MENU to confirm, and press / v to select the parameter then press MENU to confirm, and press EXIT to back to standby.

#### Theme (DISY MODE) ---- MENU 39

It supports to select different theme(including the Background color and Text color) for the display 55

screen. Default is White-1.

In standby, please press  $MENU + 3_{TM} 9_{RMS}$ , screen displays  $\bigcup_{H}^{DISY} MODE^{333}$ 

Press MENU to confirm, and press / V elect the parameter then press MENU to confirm, and press EXIT to back to standby.

White-1: White Background, Black Text and Red Icons

White-2: Light Blue Background, Heavy Blue Text and Red Icons

Black-1: Black Background, Golden Text and Green Icons

Black-2: Black Background, White Text and Green Icons

Customize 1: The colors for background, text and icons could be programmed by software.

Customize 2: The colors for background, text and icons could be programmed by software.

Customize 3: The colors for background, text and icons could be programmed by software.

Customize 4: The colors for background, text and icons could be programmed by software.

#### Time (TIME DSP) ---- MENU 40

In standby, please press MENU + 4 , screen displays TIME DEP OF

Press MENU to confirm, and press / v to select the parameter then press MENU to confirm, and press EXIT to back to standby.

Options: ON, OFF

# NOTE \land

>> The time displays when the GPS is ON.

#### Time Zone (TIME/ZONE) ---- MENU 41

In standby, please press MENU + 4 m 1 standby, screen displays TIME/ZONE I

Press MENU to confirm, and press / v to select the parameter then press MENU to confirm, and press EXIT to back to standby.

#### Location (LOCATION) ---- MENU 42 (Optional)

In standby, please press  $(MENU) + (4_{MN}) (2_{SQL})$ , screen displays  $(LOCATION^{MAN})^{2}$ 

Press MENU to confirm, and press / v to select the parameter then press MENU to confirm, and press EXIT to back to standby.

GPS SW (GPS-SW) (Optional): Turn On or OFF for GPS function.

Location Display (DSP POS) (Optional): Display the location when GPS is ON.

# NOTE \land

- >> Press MENU to switch to map scale in display mode, while press # to display the location.
- >> Press numeric keys from 1 to 8 to select the received contacts and then press PF1 button to make the selective calls for the contact.

#### Location Sending Type (SEND TYPE) (Optional):

Settings for the sending types for the location information.

OFF: Not sending.

PTT SEND: Release PTT to send out.

Timing: 1 to 10 minutes for sending

### **Detailed Guide for some functions**

#### All calls, Group calls and Selective calls

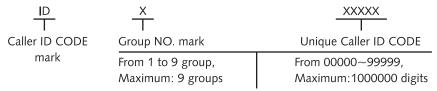
There are Caller ID code transmission, Caller ID code edit and DTMF decoding functions. Without the assistance of the other communication equipments, the all calls, group calls and selective calls are available between the groups.

Before using all calls, group calls and selective calls function, you need to set as followings:

#### 1. Caller ID CODE edit

Each transceiver in the same group should be edited a unique ANI ID code.

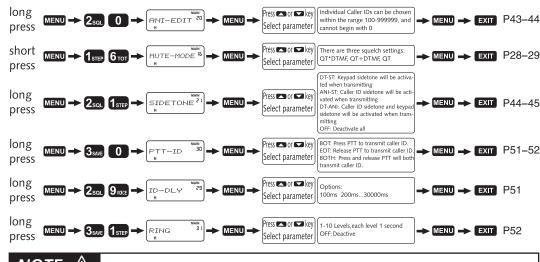
Caller ID CODE: ID -- XXX(3 digits) ID -- XXXX(4 digits) ID--XXXXX(5 digits) ID-- XXXXXX(6digits)



This is how to set Caller ID CODE.

NOTE: Caller ID Codes should be different for the transceivers in the same group.

#### Steps are as followings:



## NOTE <u></u>

>> Any transceiver in the same group should be with the same frequency point and parameter.

## **Detailed Guide for some functions**

a. How to use all calls function:

Hold on PTT key to transmit. After transmitting Caller ID Code, input \* keys directly.

b. How to use group calls function:

Hold on PTT key to transmit. After transmitting Caller ID Code, input "Group NO." \* + #....

c. How to use selective calls function:

Hold on PTT key to transmit. After transmitting Caller ID Code, input the Caller ID Code of the selective transceiver that you want to speak to.

Note: Selective call is available via selective call key. Selective call code is programmed via supplied software. Programming the same selective call code of the selective transceiver and Caller ID code of the selected transceiver.

For example, Caller ID Code for the selected transceiver is 123456, selective call code for the selective transceiver should be 123456 too.

## Repeater Usage

1.Repeater PTT Switch (RPT-PTT)

When the transceiver is in standby, press MENU + 2sol 7sol keys and the screen displays RFT-FTT \* Press MENU to access the settings, and after pressing the keys to activate (ON) the PTT transmission, Press MENU to confirm, and press the EXIT key to return to standby.

2.Repeater speaker switch (RPT-SPK)

When the transceiver is in standby, press MENU + 2so 6so keys and the screen will display Press MENU to access the settings, and after pressing to activate (ON) the speaker, press to confirm, and press key to return to standby.

3.Repeater Setting (RPT-SET)

Accessing cross-band repeater mode: when the transceiver is in standby, press  $MENU + 2 \circ 0.5 \circ 0.00$  and the screen will display  $REPERTER^{\frac{man}{25}}$ 

Press MENU to access, press 🔼 / 🔽 to select two-way cross-band repeater mode (X-TWRPT) or directional cross-band repeater mode (X-DIRPT). Press MENU to confirm. And then press EXIT to return to standby mode, hold on RPT key for 2seconds, the transceiver is to access cross-band repeater.

## **Detailed Guide for some functions**

Exit Cross-Band Repeater: In standby, hold RPT for 2seconds, the transceiver exit the cross-band repeater mode and access transceiver communication mode.

- (1) When "RPT-PTT" is ON, pressing PTT to stop receiving or transmission in cross-band repeater mode. The transmission frequency is the frequency of the master band, release PTT key to access Two-way cross-band repeater mode.
- (2) When "RPT-SPK" is ON, any transceiver in cross-band repeater mode can receive the effective signals, and then the repeater receipt tone will be heard.
- (3) The difference between directional cross-band repeater and two-way cross-band repeater modes is the transmitter and receiver is unfixed under two way cross-band repeater mode.

  Directional cross-band repeater: The master frequency area A is the receiving frequency of the receiver in cross-band repeater mode, the sub-frequency area B is the transmitting frequency.

  Two-way cross-band repeater mode:In standby, both master and sub areas are receivers, whichever area receives an effective carrier wave signal, the other area will be the transmitter and start transmitting.

## Trouble Shooting

Before assuming your transceiver is broken, please check your transceiver according to the following table; if the problem persists, you can reset the transceiver, which sometimes.

Fault	Solution
	>> Check that the volume knob has been set to maximum.
Reception prompt remains	>> Please reset CTCSS/DCS to check whether different channels
but speaker is silent	from other group members have been set.
	>> Check whether mute settings are correct.
Kaynad is unresponsive	>> Check whether keypad has been locked.
Keypad is unresponsive	>> Check whether other keys have been pressed.
Other voices (not from group members) appear in the channel.	>>> Please change the CTCSS / DCS code.
In standby, automatic transmission without pressing PTT key	>> Please check if VOX function is active or VOX level is too low.

## Trouble Shooting

Fault	Solution
Can not enter scanning mode	>> Please see if the scan group channel, Scan Add function is turned on.
Cannot set up the cross- band repeater	Please make sure A/B area is on the cross-band repeaters operating frequency.
Cannot transmit in repeat mode	Please check to see if the receivers squelch and CTCSS / DCS settings are correct.

#### Announcement

**Sucusion** endeavors to achieve the accuracy and completeness of this manual, but it is still not perfect for any possible omissions or printing errors. All the above is subject to be updated without prior notice.

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