Mobile Radio

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Thank you for purchasing this mobile radio. It is unique for it's compact body, powerful output and frequency range design. It's also designed with new and personalized operation menu to give you easy-to-use and exceptional operation experience. We believe its mini size and costeffective price

will well meet your demand.

Before operation and to obtain the best performance, we recommend you

to read this user manual carefully to become familiar with the features and uses.

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■ ATTENTION!

Please observe the following precautions to prevent fire, personal injury, damage to the radio:

- · Don't use this machine when driving, so dangerous.
- This radio is designed to use 13.8 V dc voltage, do not use the 24 V power supply to the the mobile radio.
- · Please do not place the machine in the dust, moisture or water splashing.
- If there's any electromagnetic interference, please keep the mobile radio away from the sources such as TV set, engine generator etc.
- Do not expose the mobile radio to long periods of direct sunlight, for example on the dashboard of a vehicle or close to heating appliances.
- If the mobile radio generate any smoke or strange smell, please turn off the power supply immediately and make sure all is safe, then you can send the unit to the nearest after-sale center for inspection or repairment.
- Do not keep transmitting with high power output for too long time, which may lead to overheating and cause auto power off or failure.

■ PRODUCT INSPECTION

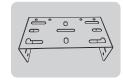
Welcome to use our mobile radio, before operation, it is recommended that you:

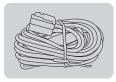
- Please check the package is in good condition without any damage.
- · Please unpack the package box carefully and check that all items are included.
- · If you find any items are missing or have been damaged during shipment, please contact your dealer immediately.

Standard accessories









Mobile Radio

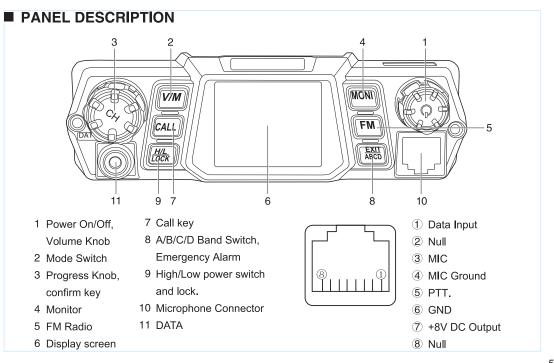
Speaker Microphone

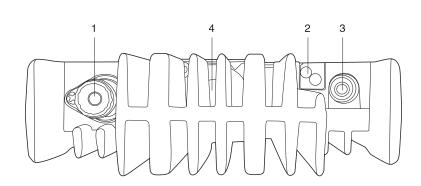
Mounting Bracket

Power Cable

0 0







- 1 Antenna connector
- 2 DC 13.8V power supply
- 3 Remote speaker
- 4 Cooling fan

Hotkey function guide

Power/Volume: Press the key to turn on the radio. Hold on the key for seconds to turn off the radio. Switch the knob to adjust the volume.

- [ALL]: In standby mode, press to send caller ID at selected signaling mode, in transmit mode, press to send repeat activate signaling.
- [MONI]: Press to turn on or turn off the squelch.
- [W]: Press to select radio mode.
- []: Press to exit function menu setting. In standby mode, press to select A, B, C, D frequency. hold on this key for seconds to active the alarm channel, continuous alarm sound, press this key again to cancel the alarm.
- [🔼]: Press to enter and exit FM radio function.
- [🏭]: Press the key to switch High/Mid/Low power, and hold on the key for seconds to lock/unlock.

Coder/Function Key: Press to enter menu function setting mode. Hold on for seconds to exit function setting mode.

Frequency Range Setting

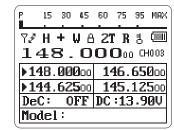
Turn on the radio when show welcome words, hold on the Progress/Confirm Key, radio will shows PASSWORD. Enter the password to setting the frequency range and transmit frequency setting.

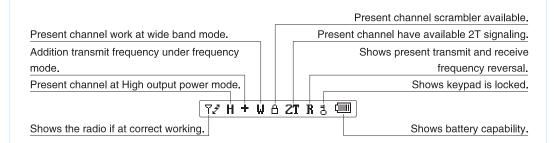
Read and Write the Password Function

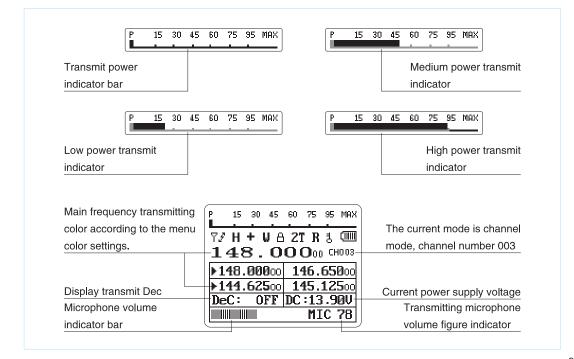
Choose a password, reading, and writing (set password, please remember, once set, after software to read and write all need password to work)

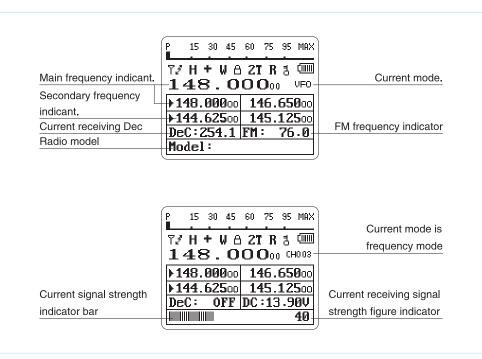
LCD Description

Top place show spec at present working frequency/channel mode.









■ SAME TX RX FREQUENCY, DIFFERENT TX RX FREQUENCY CHANNEL MEMORY

Same TX RX frequency channel memory

- ① Use keypad write require frequency, for example 146.6250, press microphone [MENU] key (or Progress/confirm key)
- 2 Menu select 46.
- ③ Press microphone [MENU] key (or Progress/confirm key) to select channel 001. Press [MENU] key (or Progress/confirm key) again to memory it to CH-001.

If before setting already shows CH-001 (not 001) means channel 1 is memorized.

Delete this memorized channel: select menu 47, press [MENU] key (or Progress/confirm key), select channel CH–001 press [MENU] key (or Progress/confirm key) again to delete, LCD shows

- 001 is empty channel.
- Press [MENU] key (or Progress/confirm key) to memory it, LCD shows CH-001.
- ⑤ Press [MENU] key (or Progress/confirm key) back to main menu, select 27, A- channel setting the frequency, channel number, channel name, press [MENU] key (or Progress/confirm key) to confirm.
- Same use menu 28, 29, 30 to setting the B, C, D frequency.
- Thold on the [MENU] key (or Progress/confirm key) for seconds to exit. Or [EXIT/AB] key.
- At frequency mode, press [MENU] key enter or exit the channel.

Different TX RX frequency channel (CTCSS/DCS) memory (connect repeater)

 Press [MENU] key (or Progress/confirm key), select menu 10.

- 2 Press [MENU] key (or Progress/confirm key), setting the receive DCS figure.
 3 Press [MENU] key (or Progress/confirm key) to
- confirm.
 select menu 11 to setting the receive CTCSS
- select menu 11 to setting the receive C1
- ④ Press [MENU] key (or Progress/confirm key), setting the receive CTCSS figure.
- ⑤ Press [MENU] key (or Progress/confirm key) to confirm.
- Select menu 12 setting transmit DCS.
- ⑥ Press [MENU] key (or Progress/confirm key), to setting the transmit DCS figure.
- Press [MENU] key (or Progress/confirm key) to confirm.
- (8) Select menu 13. Press [MENU] key (or Progress/ confirm key) to select transmit CTCSS figure.
- Press [MENU] key (or Progress/confirm key) to confirm.
- © Press [EXIT] to exit.

 If no need DCS/CTCSS then no then these steps.

- Use microphone keypad press require frequency, for example 438.6250.
- Press microphone [MENU] key (or Progress/confirm key) enter menu.
- Menu select 46.
- ③ Press microphone [MENU] key (or Progress/confirm key) to select channel 002. Press [MENU] key (or Progress/confirm key) again to memory it to CH-002. If before setting already shows CH-002 (not 002) means channel 2 is memorized.
 Delete this memorized channel: select menu 47.
- press [MENU] key (or Progress/confirm key), select channel CH-002 press [MENU] key(or Progress/confirm key) again to delete, LCD shows 002 is empty channel.
- Press [MENU] key (or Progress/confirm key) to memory it, LCD shows CH-002.
- ⑤ Press [EXIT/AB] key to exit.
 Microphone press frequency for example 430.6250.

- Press microphone [MENU] key (or Progress/confirm key) select menu 44.

 Press [MENU] key (or Progress/confirm key) select.
- Press [MENU] key (or Progress/confirm key) select channel CH-002.
- (8) Press [MENU] key (or Progress/confirm key) memory this frequency to transmit channel. Back to main menu, select 27, A-channel setting the frequency, channel number, channel name, press [MENU] key (or Progress/confirm key) to confirm.
- Same use menu 28, 29, 30 to setting the B, C, D frequency.
- ① Hold on the [MENU] key (or Progress/confirm key) for seconds to exit. Or [EXIT/AB] key.
 At frequency mode, hold on [MENU] key for seconds to enter or exit channel.

MENU FUNCTION SETTING OPERATION

Operation For Manual Channel Memory And Delete

Channel memory:

- 1. Directly input frequency by keypad under frequency mode. Example: 435.125 MHz input 4,3,5,1,2,5.
- 2. Setting CTDCS frequency (manual page 10, 11).

 Setting transmit CTDCS frequency (manual page 12,13). For example: receive CTDCS 67.0HZ, transmit CTDCS 67.0HZ. Press [MENU] Key + [1] Key + [1] Key + [MENU] + [UP] Key. Select 67.0HZ

+ [MENU] Key.

Transmit CTDCS 67.0HZ. Press [MENU] Key + [1]
Key + [3] Key + [MENU] + [UP] Key. Select 67.0HZ
+[MENU] Key. Press [MENU] Key again to save and exit. (If no need CTDCS all select OFF)

3 Select manual 46 to memory the channel, press [MENU] Key + [4] Key + [6] Key + [MENU] Key +

[UP] (DOWN) select channel + **[MENU]** Key to memory the channel information.

Delete channel:

Select menu 47. Press [MENU] + [4] + [7] + [MENU]+ [UP] (DOWN) select the channel number + [MENU] Key to delete.

Memory FM Radio Channel

Use PC software to edit FM radio channel. (Software FM option). Under transmit send DTMF code by microphone keypad. Press microphone [*] Key to search FM channel under FM mode.

Keypad Lock-out

Hold the microphone [#] key for 2 seconds at standby to turn on/off the keypad lock—out function.

Transmit Transit Signal

Select transit signal frequency (out radio have 4 kind

transit signal frequency). Press [MENU] + [5] + [2] + [MENU] + [UP](DOWN) select transit signal frequency + [MENU] key to save setting. Hold [PTT] and press [CALL] Key to transmit setting transit signal.

PTT ID Setting

Use PC software to edit PTT-ID code.

- 1. Manual 18, select signal. Press [MENU] + [1] + [8]
 + [MENU] + [UP](DOWN) select signal + [MENU]
 save the setting.
- Manual 20, setting PTT launch. Press [MENU] + [2] + [0] + [MENU] + [UP](DOWN) select signal + [MENU] save the setting.
- 3. Manual 21, setting PTT transmit delay time. Press [MENU] + [2] + [1] + [MENU] + [UP] (DOWN) select delay time + [MENU] save thesetting.
- 4. Press [PTT] to send setting ID code.

Optional Signalling Setup

DTMF Signalling Setup

This radio is capable of DTMF encode/decode feature, users can program the desired DTMF code by PC program.

DTMF Signalling

If the radio is pre-programmed with DTMF signalling code, when it receive a matched code it will alert and display the corresponding code, also radios can communicate with each other in valid time. (ID code is programmable by PC software)

Patrol Function

When receiving matched DTMF signalling which is same as pre-programmed patrol code, the radio will emit self ID code which will display on master controll radio.

This function is able to select to be or not to be contr-

by RX signalling. (Patrol code is programmable by PC software)

olled by master ID code, this function is not controlled

Monitor Function

When receiving matched DTMF signalling which is same as pre-programmed monitor code, the radio will transmit to monitor the surrounding voice. This function is able to select to be or not to be controlled by master ID code, this function is not controlled by RX signalling.

(Monitor code is programmable by PC software)

Remote Stun

When receiving matched DTMF signalling which is same as pre-programmed remote stun code, transmitting is disabled, it will also alert on the display mode. The radio will restore to work normally only after remote revived. This function is able to select to be or not to be controlled by master ID code, this function is not controlled by RX signalling. (Remote stun code is

programmable by PC software)

Remote Kill

When receiving matched DTMF signalling which is same as pre-programmed remote kill code, transmitting, receiving and all activities will be disabled, it will also alert on the display mode. The radio will restore to work normally only after remote revived. This function is able to select to be or not to be controlled by master ID code, this function is not controlled by RX signalling. (Remote kill code is programmable by PC software)

Remote Revive

When receiving matched DTMF signalling which is same as pre-programmed remote revive code, the radio will be revived and restore to work normally. This function is able to select to be or not to be controlled by master ID code, this function is not controlled by RX signalling.(Remote revive code is programmable by PC software)

Emergency Alarm

When receiving matched DTMF signalling which is same as pre-programmed emergency alarm code, the radio will emit emergency alarm. Emergency alarm mode and channel is PC programmable. This function is not controlled by master ID code and RX signalling. (Emergency alarm code is programmable by PC software)

Signalling controlled by master ID: Function will be implemented only when both signalling and mater ID.

implemented only when both signalling and mater ID matched.

Signalling no controlled by master ID format:signalling + # + Information Code

Signalling controlled by master ID format: signalling + # + Master ID code + # + Information Code

DTMF Transmit By Call Key Setting

Select DTMF signal, press [MENU] + [1] + [8] + [MENU] + [UP] (DOWN) select DTMF signal + [MENU] save setting.
 Select signal information code. Press [MENU] + [2]

+ [2] + [MENU] + [UP] (DOWN) select decode signal

information code group (1–15) + [MENU] save the setting. (Can use PC software set DTMF code).

3. Press [Call] Key transmit selected DTMF code group at standby.

2 TONE And 2 TONE Signal Transmit by Call Key Setting

- 1. Press [MENU] select 18 OPTSIG, press [MENU] select 2 TONE function.
- Press [MENU] select 22 S-INFO, press [MENU] select pre-code signal group (1–16). (Can use PC software setting 2 TONE).
- 3. Corresponding function will turn on when receive 2 TONE signal is same as pre-set 2 TONE code.

4. Press [Call] to send 2 TONE group code at standby.

5 TONE Signal Setting

This radio have 5 TONE coding/decode function. You can use PC software to input signal information code. (enter software signal edit select 5 TONE and setting). Receiver set 5 TONE signal, then after receive same 5 TONE signal (code must 5 bit) receiver turn on the ring function and display the information code. Speech at effective time is available. (ID code can use PC software to setting).

Press [Call] Key to transmit 5 TONE.

- Press [MENU] key, select 18 OPTSIG press [MENU] select 5 TONE function, press [MENU] to confirm setting.
- Press [MENU] , select 22 S-INFO press [MENU] key to select pre-code signal group 1-15. (Can use PC software setting 5 TONE information code, each group can transmit 3 group 5 TONE code for optional).

3. Press [Call] key transmit pre-set 5 TONE code group at standby.

SPEAKER MICROPHONE DESCRIPTION (optional)

① "MENU": Function key

② "UP": Tune up channel step

③ "DOWN": Tune down channel step

4 "EXIT": Exit A/B channel switch, emergency alarm etc.

⑤ "*/SCAN": Offset function, scan, digital "*"

6 "#/LOCK": Keypad lockout function, digital "#"

⑦ "0": Number 0

® "1": Number 1

9 "2": Number2

1 3": Number3

#4": Number4

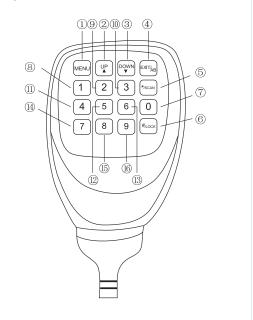
12 "5": Number5

⁽¹³⁾ "6": Number6

(14) "7": Number7

15 "8": Number8

16 "9": Number9



■ SPEAKER MICROPHONE DESCRIPTION (optional)

① "MENU": Function key

2 "UP": Tune up channel step

③ "DOWN": Tune down channel step

④ "EXIT": Exit A/B channel switch, emergency alarm etc. ①

⑤ "*/SCAN": Offset function, scan, digital "*"

"#/LOCK": Keypad lockout function, digital "#"

⑦ "0": Number 0

® "1": Number 1

9 "2": Number2

10 "3": Number3

① "4": Number4

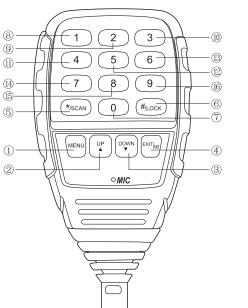
12 "5": Number5

(13) "6": Number6

(14) "7": Number7

(15) "8": Number8

16 "9": Number9



Microphone Keypad Operation

- Hold on microphone [MENU] key for seconds can switch select channel mode or frequency mode.
- 2. Press [#] key to switch High/Low transmit output power.
- 3. Hold on [#] key for seconds to Lock/Unlock the keypad.
- Hold on [EXIT/AB] key for seconds to active Alarm mode.
- Press [EXIT/AB] key select present working frequency.
- 6. Press [*] key to reverse the transmit frequency and receive frequency.
- 7. Hold on [*] key to start Scan function.

 10

■ FUNCTION MENU

Menu	Primary Menu Icon	Secondary Menu Icon	Secondary Function Description
		OFF	Disable TMR (multiple standby function)
		M+A	Enable TMR, main frequency and A frequency standby
		M+B	Enable TMR, main frequency and B frequency standby
		M+C	Enable TMR, main frequency and C frequency standby
		M+D	Enable TMR, main frequency and D frequency standby
		M+A+B	Enable TMR, main frequency A and B frequency standby
		M+A+C	Enable TMR, main frequency A and C frequency standby
0	TMR	M+A+D	Enable TMR, main frequency A and D frequency standby
		M+B+C	Enable TMR, main frequency B and C frequency standby
		M+B+D	Enable TMR, main frequency B and D frequency standby
		M+C+D	Enable TMR, main frequency C and D frequency standby
		M+A+B+C	Enable TMR, main frequency A B and C frequency standby
		M+A+C+D	Enable TMR, main frequency A C and D frequency standby
		M+B+C+D	Enable TMR, main frequency B C and D frequency standby
		A+B+C+D	Enable TMR, A B C and D frequency standby
		2.50K	
		5.00K	
4	STEP	6.25K	In frequency mode, press [UP] and [DOWN] to
1	SIEP	10.00K	select step figure.
		12.50K	
		25.00K	

2	SQL	0,,9	Squelch level 0–9 selective
		HIGH	High power output
3	TXP	MID	Mid power output
		LOW	Low power output
4	SCR	OFF	Disable scrambler function
4	JUN	ON	Enable scrambler function
5	TOT	15,30,…600	Time out timer, 15–600s selective, step is 15s.
6	APO	OFF, 30, 60, 90 ··· 300	Auto power off time (no signal, no operation)
7	WN	WIDE	Wide band
'	VVIN	NARR	Narrow band
8	ABR	OFF	backlight always on
l °	ADN	1, 2, 3, 4, 5	Auto backlight off time (Color screen unavai)
9	BEEP	OFF	Alert tone off
9	DEEP	ON	Alert tone on
10	R-DCS	OFF	None DCS tone programmed
10	N-DC3	D023N, ···, D754I	Desired DCS tone programmed
		OFF	None CTCSS tone programmed
11	R-CTCS	67.0HZ, ···, 254.1HZ	Desired CTCSS tone programmed, and can directly input
		67.0HZ,, 254.1HZ	by keypad.
12	T-DCS	OFF	None DCS tone programmed
12	12 I-DCS	D023N, ···, D754I	Desired DCS tone programmed
		OFF	None CTCSS tone programmed
13	T-CTCS	67.0HZ, ···, 254.1HZ	Desired CTCSS tone programmed, and can directly input
		07.002, ***, 254.102	by keypad.

			Radio will not emit code tone when transmitting DTMF
		OFF	code
		KEV	Radio emit code tone when manually transmitting DTMF
14	DTMFST	KEY	code by key
		ID	Radio emit code tone when auto transmitting the DTMF
		טו	code
		вотн	Radio emit code tone in both conditions
15	BCL	OFF	Radio can transmit at any time
15	BOL	ON	Raido cannot transmit when the selected channel is busy
16	SC-ADD	OFF	Deletes the Channel from the SCAN list
10	3C-ADD	ON	Adds the Channel to the SCAN list
		ТО	Scan by time
17	SC-REV	CO	Scan by carrier
		SE	Scan by search
		OFF	Disable optional signalling
18	OPTSIG	DTMF	DTMF as optional signalling
10		2TONE	2 TONE as optional signalling
		5TONE	5 TONE as optional signalling
		QT	Speaker unmutes when receiveing matched QT/DQT
		AND	Speaker unmutes when receiveing both matched optiona
19	19 SPMUTE	/IUTE AND	signalling and QT/DQT
		OR	Speaker unmutes when receiveing either matched
		On On	optional signalling or QT/DQT
20	PTT-ID	OFF	Disable PTT-ID transmit
20	FII-ID	BOT	Press PTT to transmit signalling code (set by software)

		EOT	Release PTT to transmit signalling code
		BOTH	Press PTT and Release PTT to transmit signalling code
21	PTT-LT	0, 1,, 30	Delay time before PTT-ID transmit
00	O INICO	4 45	Signalling code can be programmed by PC
22	S-INFO	1, …, 15	software only
		ALARM	Radio emit emergency alarm tone
23	EMC-TP	ANI	Radio emit emergency alarm code and ANI code
		DOTU	Radio emit emergency alarm tone, alarm code and ANI
		вотн	code
24	EMC-CH	000 100	Radio will emit emergency alarm from specified
24	EIVIO-OH	000,, 199	emergency alarm channel
25	SIG-BP	OFF	Signalling available not prompt
25	SIG-BF	ON	Signalling available prompt
26	CHNAME		In channel mode to edit the channel name
		FREQ	Frequency mode
27	CA-MDF	CH	Channel display mode
		NAME	Channel name display mode (name set by software)
		FREQ	Frequency mode
28	CB-MDF	CH	Channel display mode
		NAME	Channel name display mode (name set by software)
		FREQ	Frequency mode
29	CC-MDF	CH	Channel display mode
		NAME	Channel name display mode (name set by software)
30	CD-MDF	FREQ	Frequency mode
30	OD-MDF	СН	Channel display mode

		NAME	Channel name display mode (name set by software)
31	31 LANGUA	ENG	English menu
31 LANGUA	CHS	Chinese menu	
32	AUTOLK	OFF	Disable keypad auto lockout function
32	AUTOLK	ON	Enable keypad auto lockout function
		WHITE	
		RED	
		BLUE	
33	ST-FC	GREEN	Setting main LCD figure color
33	31-50	YELLOW	Setting main ECD rigure color
		INDIGO	
		PURPLE	
		GRAY	
		WHITE	
		RED	
		BLUE	
34	MF-FC	GREEN	Setting main LCD back color
34	WIF-FC	YELLOW	Setting main ECD back color
		INDIGO	
		PURPLE	
		GRAY	
		WHITE	
35	SFA-FC	RED	Setting Menu figure color
33		BLUE	Setting Mena figure color
		GREEN	

		YELLOW	
		INDIGO	
		PURPLE	
		GRAY	
		WHITE	
		RED	
		BLUE	
		GREEN	
36	SFB-FC	YELLOW	Setting Menu back color
		INDIGO	
		PURPLE	
		GRAY	
		WHITE	
		RED	
		BLUE	
37	SFC-FC	GREEN	Setting top figure front color
		YELLOW	
		INDIGO	
		PURPLE	
		GRAY	
		WHITE	
		RED	
38	SFD-FC	BLUE	Setting top figure back color
		GREEN	
		YELLOW	

		1	
		INDIGO	
		PURPLE	
		GRAY	
		WHITE	
		RED	
		BLUE	
00	OUD FO	GREEN	Cotting to the second forms and a
39	SUB-FC	YELLOW	Setting bottom signal figure color
		INDIGO	
		PURPLE	
		GRAY	
		WHITE	
		RED	
		BLUE	
40	FM-FC	GREEN	Setting better signal figure book color
40	FIVI—FC	YELLOW	Setting bottom signal figure back color
		INDIGO	
		PURPLE	
		GRAY	
		WHITE	
		RED	
41	SIG-FC	BLUE	Sat receiving figure color
41	31G-FC	GREEN	Set receiving figure color
		YELLOW	
i l		INDIGO	

		PURPLE		
		GRAY		
			WHITE	
		RED		
		BLUE		
42	MOD-FC	GREEN	Sets color	
42	IMOD=FC	YELLOW	Sets color	
		INDIGO		
		PURPLE		
		GRAY		
		WHITE		
		RED		
		BLUE		
43	MENUFC	GREEN	Set menu character color	
45	WILINOTO	YELLOW	Set mend character color	
		INDIGO		
		PURPLE		
		GRAY		
		WHITE		
		RED		
	44 TX-FC	BLUE		
44		GREEN	Set transmitting figure color	
		YELLOW	YELLOW	
		INDIGO		
		PURPLE		

		GRAY	
45	TXDISP	POWER	Bottom signal shows output power at transmit
45	IVDISE	MIC-V	Bottom signal shows volume at transmit
			Select a channel (000–199) to store desired
46	MEM-CH	000, …, 199	frequency, the channel (000-199) with "CH" was
			already programmed with frequency
47	DEL-CH	000 100	Delete the channel information, if the channel number
47	DEL-CH	000, …, 199	without "CH" means no programmed
		OFF	Offset is turn off, TX RX frequency is same
48	SFT-D	+	Plus offset, means TX frequency is higher then RX
		-	Minus offset, means TX frequency is lower then RX
40	49 OFFSET		Offset frequency range is 00.000-69.990MHz sel-
49			ective. In VFO mode, the offset between TX and RX
50	ANI		ANI code, programmed by PC software only
51	ANI–L	3, 4, 5	Length of ANI code
		4000	Transmitting press CALL to send 1000Hz to activate
		1000	repeater function
		1450	Transmitting press CALL to send 1450Hz to activate
52	REP-S	1450	repeater function
32	52 REP-5		Transmitting press CALL to send 1750Hz to activate
		1750	repeater function
		2100	Transmitting press CALL to send 2100Hz to activate
	2100		repeater function

		OFF	Disable repeater transponder function	
		CARRI	Repeater transpond when receiving matched carrier	
		07000	Repeater transpond when receiving matched	
53	REP-M CTDCS	CTCSS/DCS		
		TONE	Repeater transpond when receiving matched tone	
		DTMF	Repeater transpond when receiving matched DTMF code	
54	TMR-MR	OFF, 1, 2, 3, ··· 50	Delay time for main frequency back, at multi standby	
55	STE	OFF	Disable squelch tail-eliminated function	
55	SIE	ON	Enable squelch tail-eliminated function	
56	50 DD 075	BP-STE OFF. 1, 2, 3, ···10	1-10 indicate squelch tail length, used to eliminate	
50	HP-SIE	OFF, 1, 2, 3, ···10	squelch tail noise produced	
57	RPT-DL	OFF, 1, 2, 3, ···10	1-10 select delay time to receive repeater tail noise	
58	DTMF-G	0, 1, 2, 3, ··· 60	Set DTMF gain	
	59 RESET VFO ALL	VFO	Reset the menu mode to factory default setting	
59		RESET	ALL	Reset all memories and other setting to factory default
		setting		

■ GENERAL SPECIFICATIONS

General Specifications

Frequency range	VHF: 136~174MHz (UHF: 400~480MHz)
Channel capacity	VHF: 256 Channels UHF: 200 Channels
Channel Spacing	25KHz / 20KHz / 12.5KHz
Channel step	2.5KHz / 5KHz / 6.25KHz / 10KHz / 12.5KHz / 25KHz
Working Voltage	13.8V DC ± 15%
Squelch way	CARRIER / CTCSS / DCS / 5Tone / 2Tone / DTMF
Frequency stability	± 2.5ppm
Operating temperature	– 20~+60℃
Dimension	140 (W) x 43 (H) x 172 (D) mm
Weight	1.03kg

Receiver (ETSI EN 300 086 Standardized.Test)

	Wide Band	Narrow Band
Sensitivity	≤0 . 25μV	≤0.35μV
Adjacent Channel Selectivity	≥70dB	≥60dB
Intermodulation	≥65dB	≥60dB
Spurious Rejection	≥70dB	≥70dB
Audio response	+1~-3dB (0.3~3KHz)	+1~-3dB (0.3~2.55KHz)
Hum & Noise	≥45dB	≥40dB
Audio Distortion	≤5%	
Audio output power	≥2W ± 10%	

Transmit (ETSI EN 300 086 Standardized.Test)

	Wide Band	Narrow Band	
Output power	VHF H 100W (16A) M 50W (9A) L 20W (6A)		
Output power	(UHF H 80W (16A) M 40W (9A) L 20W (6A))		
Modulation Mode	16KΦF3E	11KΦF3E	
Adjacent Channel Selectivity	≥70dB	≥60B	
Hum & Noise	≥40dB	≥36dB	
Spurious Emission	≥60dB	≥60dB	
Audio response	+1~-3dB (0.3~3KHz)	+1~-3dB (0.3~2.55KHz)	
Audio distortion	≤5%		

Attention: Above specifications are subject to change without any notice due to technology enhancement.