■ MENU FUNCTION

Menu	lcon	Function	Secondary Menu Icon	Secondary Menu Function Setup and Description	
0	TDR	Dual standby	OFF	Disable TDR (dual standby function)	
U	IDA	function	ON	Enable TDR (dual standby function)	
			5.00K		
		Channel	6.25K		
1	STEP	step	10.00K	In VFO mode, press [UP] or [DOWN] to select desired channel ste	
		siep	12.50K		
			25.00K		
2	SQL	Squelch level	0,…,9	Squelch level 0–9 selective	
3	TXP	TX Power	HIGH	High power output	
3	175	1 × Fower	LOW	Low power output	
4	SCR	Voice encryption	OFF	Disable voice encryption	
4	SCR		ON	Enable voice encryption	
5	TOT	Time out timer	15,30,…600	Time out timer, 15–600s selective, step is 15s.	
6	TOA	Time out timer	OFF	Disable this function	
0	IOA	pre-alert	1,2,10	Radio will alert by LED flashing before transmitting end.	
7	WN	Wide/Narrow	WIDE	Wide bandwidth 25KHz	
/	VVIN	bandwidth	NARR	Narrow bandwidth 25KHz	
8	ABR	Auto backlight	OFF	Backlight always on	
0	ADIT	Auto backlight	1,2,3,4,… 50	Auto backlight off time	
9	BEEP	Alert tone	OFF	Alert tone off	
3	DELI		ON	Alert tone on	
10	R-DCS	RX DCS	OFF	None DCS tone programmed	
	500	1.01.000	D023N,···,D754I	Desired DCS tone programmed	
			OFF	None CTCSS tone programmed	
11	R-CTCS	RX CTCSS	67.0HZ,···,254.1HZ	Desired CTCSS tone programmed	



12 T-DCS		TX DCS	OFF	None DCS tone programmed
12	1-008	IXDCS	D023N,···,D754I	Desired DCS tone programmed
			OFF	None CTCSS tone programmed
13	T-CTCS	TX CTCSS	67.0HZ,···,254.1HZ	Desired CTCSS tone programmed
			OFF	Radio will not emit code tone when transmitting DTMF code
14	DTMFST	Side key tone	KEY Radio emit code tone when manually transmitting DTMF	
14	DIMISI	Side key tone	ANI	Radio emit code tone when auto transmitting the DTMF code
			BOTH	Radio emit code tone in both conditions
15	BCL	Busy channel	OFF	The radio can transmit at any time.
10	BOL	lockout	ON	The radio cannot transmit when the selected channel is busy.
16	SC-ADD	Scan channel	OFF	Deletes the Channel from the SCAN list
10	add add		ON	Adds the Channel to the SCAN list
17	PRI-SC	Priority scan	OFF	Priority scan off
17	1111-30		ON	Priority scan on
18	PRI-CH	Priority channel	000,…,199	Select a desired channel as priority channel
		Scan revert	TO	Scan by time
19	SC-REV		CO	Scan by carrier
		type	SE	Search to scan
			OFF	Disable optional signalling
20	OPTSIG	Optional signaling	DTMF	DTMF as optional signalling
20	OFISIG		2TONE	2 TONE as optional signalling
			5TONE	5 TONE as optional signalling
	SPMUTE	Speaker mute	QT	Speaker unmutes when receiving matched QT/DQT
21			AND	Speaker unmutes when receiving both matched optional signalling and QT/DQT
			OR	Speaker unmutes when receiving either matched optional signalling or QT/DQT
		PTT-ID transmit	OFF	Disable PTT-ID transmit
22	PTT-ID		ВОТ	Press PTT to transmit signalling code
		Haristill	EOT	Release PTT to transmit signalling code

22	PTT-ID	PTT-ID transmit	вотн	Press and release PTT to transmit signalling code	
23	PTT-LT	PTT-ID transmit delay time	0,1,,30	Delay time before PTT-ID transmit	
24	S-INFO	Signalling code	1,…,15	Signalling code can be programmed by PC software only	
			ALARM	Radio emit emergency alarm tone.	
25	EMC-TP	Alarm Mode	ANI	Radio emit both emergency alarm code and ANI code.	
			BOTH	Radio emit emergency alarm tone, emergency alarm code and ANI code.	
26	EMC-CH	Emergency alarm channel	000,…,199	Radio will emit emergency alarm from specified emergency alarm channel	
27	RING-T	Ring time	OFF,1,2,···10	The radio will ring in pre–programed time(1–10s selective) after received matched option signalling, speaker will then unmute after time's up.	
28	CHNAME	Channel name edition		In channel mode to edit the channel name	
		A Band	FREQ	Frequency mode	
29	CA-MDF	channel	CH	Channel display mode	
		display mode	NAME	Channel name display mode	
		B Band	FREQ	Frequency mode	
30	CB-MDF	channel display mode	CH	Channel display mode	
			NAME	Channel name display mode	
31	AUTOLK	Keypad OLK automatic lockout	OFF	Disable keypad auto lockout function	
31	AUTOLK		ON	Enable keypad auto lockout function	
32	32 PONMSG	Power-on message display mode	FULL	Full screen display when power on	
32	I ONIVISG		MSG	Display specified message when power on	
	WT-LED	Standby backlight color	OFF	Close the backlight	
33			BLUE	In standby mode, blue backlight on	
33			ORANGE	In standby mode, orange backlight on	
			PURPLE	In standby mode, puple backlight on	

		RX (receiving)	OFF	Close the backlight		
34	RX-LED		BLUE	Blue backlight on when receiving		
"	100 222	backlight color	ORANGE	3 3		
		baokiigi it coloi	PURPLE	Pupple backlight on when receiving		
		TX (Transimittng)	OFF	Close the backlight		
35	TX-LED		BLUE	Blue backlight on when transmitting		
33	IX-LLD	backlight color	ORANGE	Orange backlight on when transmitting		
		Dacklight Color	PURPLE	Pupple backlight on when transmitting		
		Memory		Select a channel (000-199) to store desired frequency,		
36	MEMCH	Channel	000,,199	the channel (000-199) with "CH" was programmed with		
		Storage		frequency earlier.		
				Memory	Dolote any channel from 000_100, the cha	Delete any channel from 000–199, the channel number without
37	DELCH	channel delete	000,…,199	"CH" is not programmed with frequency.		
	onarmor de		OFF	Offset is turn off, TX frequency is same as RX frequency.		
38	SFT-D	Offset Direction	+	Plus offset, means TX frequency is higher than RX frequency.		
36			_ _	Minus offset, means TX frequency is lower than RX frequency.		
		0"	-	1 1		
39	OFFSET	Offset	00.000,…,69.990	Offset frequency range is 00.000–69.990MHz selective.		
		frequency		In VFO mode, the offset between TX and RX.		
40	ANI	ANI code		ANI code is PC programmable only		
41	ANI-L	Length of	3,4,5	Length of ANI code		
		ANI code	-, -, -	•		
	REP-S	Repeater activation by optional signalling	1000	When radio is transmitting, press [CALL] to send 1000Hz to		
				activate repeater function.		
42			1450	When radio is transmitting, press [CALL] to send 1450Hz to		
				activate repeater function.		
			1750	When radio is transmitting, press [CALL] to send 1750Hz to		
				activate repeater function.		
			2100	When radio is transmitting, press [CALL] to send 2100Hz to		
			2.00	activate repeater function.		

		Repeater transponder mode	OFF	Disable repeater transponder function	
43			CARRI	Repeater transpond when receiving matched carrier	
	REP-M		CTDCS	Repeater transpon when receiving matched CTCSS/DCS.	
			TONE	Repeater transpon when receiving matched tone.	
			DTMF	Repeater transpond when receiving matched DTMF code.	
44	TDD AB	Dual standby function (TDR)	OFF	The function is disabled, radio always stay on the main band.	
44 TDR-AB	I DR-AB		1,…,50	Radio will automatically switch to the channel which receiving matched signals.	
45	45 STE	Squelch	ON	Enable squelch tail-eliminated function.	
45 515	SIE	tail-elimination	OFF	Disable squelch tail-eliminated function.	
		Repeater	OFF	This function is disabled.	
46	6 RP-STE squelch tail elimination		1,…,10	1–10 indicate squelch tail length, used to eliminate squelch tail noise produced because of repeater delay.	
47	RPT-DL	Delay time RPT-DL to receive	OFF	Disable this function.	
47	111 1-DL	repeater signal	1,,10	1-10: Select delay time to receive repeater signal.	
48	RESET	Reset	VFO	Reset the menu mode to factory default setting.	
40		neset	ALL	Reset all memories and other settings to factory default setting.	

■ GENERAL SPECIFICATIONS

General Specifications

Frequency range	Rx: 136-174MHz & 220-260MHz & 400-480MHz Tx: 144-148MHz & 222-225MHz & 420-450MHz		
Channel capacity	200 channels		
Channel Spacing	25KHz/20KHz/12,5KHz		
Channel step	5KHz、6.25KHz、10KHz、12.5KHz、15KHz、25KHz、		
Working Voltage	13.8V DC ± 15%		
Squelch way	CARRIER / CTCSS / DCS / 5Tone / 2Tone / DTMF		
Frequency stability	± 2.5ppm		
Operating temperature	–20~+60°C		
Dimension	98 (W) x 35 (H) x118 (D) mm		
Weight	408g		

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	25W/20W(VHF/UHF)	
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.

5 FCC Compliance Statements:

This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

WARNING: MODIFICATION OF THIS DEVICE TO RECEIVE CELLULAR RADIOTELEPHONE SERVICE SIGNALS IS PROHIBITED UNDER FCC RULES AND FEDERAL LAW.

■ Licensing Information

Use our radio in USA is subject to the rules & regulations of FCC. Changes or modifications not expressly approved by our may void the user authority granted by the FCC to operate this radio and should not be made. To comply with FCC requirements, transmitter adjustments should be made only by or under the supervision of a person certified as technically qualified to perform transmitter maintenance and repairs in the private land mobile and fixed services as certified by an organization representative of the user of those services. Replacement of any transmitter component (crystal, semiconductor, etc) not authorized by the FCC equipment authorization for this radio could violate FCC rules.

Note: Use of this radio outside the country where it was intended to be distributed is subject to government regulations and may be prohibited.

Important: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this device. Your radio is set up to transmit a regulated signal on an assigned frequency. It is against the law to alter or adjust the settings inside the radio to exceed those limitations. Any adjustments to your radio must be made by qualified technicians.