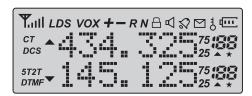
► ACCESSORY JACK:

-The jack is used to connect audio accessories, or other accessories such as programming cable.

9.-'LCD' DISPLAY:

The display icons appear when certain operations or specific features are activated.



Icon	Description						
:88	Operating channel.						
75 25	Operating frequency.						
CT	'CTCSS' activated.						
DCS	'DCS' activated.						
+-	Frequency offset direction for accessing repeaters.						
S	Dual Watch/Dual Reception functions activated.						
VOX	Function 'VOX' enabled.						
R	Reverse function activated.						
N	Wide Band selected.						
(III)	Battery Level indicator						
1	Keypad lock function activated.						
L	Low transmit power.						
	Operation frequency.						
Y.ul	Signal Strength Level.						

10.- 1750 Hz TONE FOR ACCESS TO REPEATERS:

The user needs to establish long distance communications through an amateur radio repeater which is activated after receiving a 1750 Hz tone. Press and hold on the [PTT],then press the [BAND] button to transmit a 1750Hz tone.

11.- BASIC OPERATION:

11.1.-RADIO ON-OFF/VOLUME CONTROL:

- -Make sure the antenna and battery are installed correctly and the battery charged.
- -Rotate the knob clockwise to turn the radio on, and rotate the knob fully counter-clockwise until a 'click' is heard to turn the radio off. Turn the knob clockwise to increase the volume, or counter-
- clockwise to decrease the volume.

11.2.- SELECTING A FREQUENCY OR CHANNEL:

- -Press the key[A]or[A]to select the desired frequency/channel you want. The display shows the frequency / channel selected.
- -Press and hold down the key [A]or[A] for frequency up or down fast.

Note:

- You can not select a channel if not previously stored.

12-ADVANCED OPERATION:

You can program your transceiver operating in the setup menu to suit your needs or preferences.

12.1.-SET MENU DESCRIPTION:

Menu	Function/Description	Available settings			
0	SQL (Squelch level)	0-9			
1	STEP(Frequency step)	2.5/5/6.25/10/12.5/25kHz			
2	TXP(Transmit power)	HIGH/LOW			
3	SAVE(Battery save,1:1/1:2/1:3/1:4)	OFF/1/2/3/4			
4	VOX(Voice operated transmission)	OFF/0-10			
5	W/N(Wideband/narrowband)	WIDE/NARR			
6	ABR(Display illumination)	OFF/1/2/3/4/5s			
7	TDR(Dual watch/dual reception)	OFF/ON			

8	BEEP(Keypad beep)	OFF/ON			
9	TOT(Transmission timer)	15/30/45/60/585/600seconds			
10	R-DCS(Reception digital coded squelch)	OFF/D023ND754I			
11	R-CTS(Reception Continuous Tone Coded Squelch)	67.0Hz254.1Hz			
12	T-DCS(Transmission digital coded squelch)	OFF/D023ND754I			
13	1 /				
14	VOICE(Voice prompt)	OFF/ON			
15	ANI(Automatic number identification of the radio, only can be set by PC software.				
16	DTMFST(The DTMF tone of transmitting code.)	OFF/DT-ST/ANI-ST/DT+ANI			
17	S-CODE(Signal code, only could be set by PC software.)	1,,15 groups			
18	SC-REV(Scan resume method)	TO/CO/SE			
19	PTT-ID(press or release the PTT button to transmit the signal code)	OFF/BOT/EOT/BOTH			
20	PTT-LT(delay the signal code sending)	0,,30ms			
21	MDF-A(under channel mode, A channel displays. Note: name display only can be set by PC software.	FREQ/CH/NAME			
22	MDF-B(under channel mode, B channel displays. Note: name display only can be set by PC software.	FREQ/CH/NAME			
23	BCL(busy channel lockout)	OFF/ON			
24	AUTOLK(keypad locked automatically)	OFF/ON			
25	SFT-D(direction of frequency shift)	OFF/+/-			
26	OFFSET(frequency shift)	00.00069.990			
27	MEMCH(stored in memory channels)	000,127			
28	DELCH(delete the memory channels)	000,127			
29	WT-LED(illumination display color of standby)	OFF/BLUE/ORANGE/PURPLE			
30	RX-LED(illumination display color of reception)	OFF/BLUE/ORANGE/PURPLE			
31	TX-LED(illumination display color of transmitting)	OFF/BLUE/ORANGE/PURPLE			
32	AL-MOD(alarm mode)	SITE/TONE/CODE			
33	BAND(band selection)	VHF/UHF			
34	TX-AB(transmitting selection while in dual watch/reception)	OFF/A/B			
35	STE(Tail Tone Elimination)	OFF/ON			

36	RP_STE(Tail tone elimination in communication through repeater)	OFF/1,2,310
37	RPT_RL(Delay the tail tone of repeater)	OFF/1,2,310
38	PONMGS(Boot display)	FULL/MGS
39	ROGER(tone end of transmission)	ON/OFF
40	RESET (Restore to default setting)	VFO/ALL

12.2.-SHORTCUT MENU OPERATION:

- 1.-Press the key MENU, then press the key ▲ or ▼ to select the desired menu.
- 2.-Press the key MENU again, come to the parameter setting.
- 3.-Press the key ▲ or ▼ to select the desired parameter.
- 4.-Press the key MENU to confirm and save, press the key EXIT to cancel setting or clear the input.



-Note:

1.Under channel mode, the following menu settings are invalid: CTCSS, DCS, W/N, PTT-ID, BCL, SCAN ADD TO, S-CODE, CHANNEL NAME. Only the H/L power could be changed.

2.0FFSET frequency(TX/RX) could be stored in same channel, please come to MENU 27 to set, first confirmation to set RX, second confirmation to set TX.

12.3.-"SQL" (SQUELCH):

-The squelch mute the speaker of the transceiver in the absence of reception. With the squelch level correctly set, you will hear sound only while actually receiving signals and significantly reduces battery current consumption. It is recommended that you set Level 5.

12.4.- FUNCTION "VOX" (VOICE OPERATED TRANSMISSION):

-This function is not necessary to push the [PTT] on the transceiver for a transmission. Transmission is activated automatically by detecting the radio voice. When finish speaking, the transmission automatically terminated and the transceiver will automatically receive signal. Be sure to adjust the VOX Gain level to an appropriate sensitivity to allow smooth transmission.

12.5.- SELECT WIDEBAND OR NARROW BAND "W/N":

In areas where the RF signals are saturated, you must use the narrow band of transmission to avoid interference in adjacent channels.

12.6.- TDR (DUAL WATCH/DUAL RECEPTION):

This feature allows you to operate between frequency A and frequency B. Periodically, the transceiver checks whether a signal is received on another frequency that we have scheduled. If you receive a signal, the unit will remain in the frequency until the received signal disappears.

12.7.- TOT(TRANSMISSION TIMER):

This function can automatically control the time we transmit each time you press [PTT] on the transceiver. This feature is very useful to avoid overheating excessive power transistors of the transceiver. The transceiver will be off transmission automatically once the set time.

12.8.-CTCSS/DCS:

In some cases only want to establish communications in a closed user group at a particular frequency or channel, for it will use "CTCSS" or code "DCS" for reception.

The "squelch" opens only when receiving a frequency with "CTCSS" or codes "DCS" same as the programmed in your transceiver. If codes of the received signal differs from those programmed in your transceiver, the "squelch" will not open and the received signal can be heard.

Note

- The use of "CTCSS" or "DCS" in a communication, does not guarantee complete confidentiality communication.

12.9.- ANI

-ANI (Automatic Number Identification) is also known as PTT ID because an ID is transmitted when the PTT button of the radio is pressed and/or released. This ID tells the dispatcher which field radio was keyed.

Only could be set by PC software.

12.10.- DTMFST (DTMF TONE OF TRANSMITTING CODE):

First you should set the PTT-ID as BOT/EOT/BOTH

- -"OFF"-Under transmitting mode, you can't hear the DTMF tone, while you press the key to transmit the code or code automatically transmitted.
- -"DT-ST"-Under transmitting mode, you can hear the DTMF tone, while you press the key to transmit the code.
- -"ANI-ST"-under transmitting mode, you can hear the DTMF tone, while the code automatically transmitted.
- -"DT-ANI"—under transmitting mode, you can hear the DTMF tone, while you press the key to transmit the code or the code automatically transmitted.

12.11.- SC-REV(SCAN RESUME METHOD):

This transceiver allows you to scan memory channels, all the bands or part of the bands. When the transceiver detects a communication, the scan will stop automatically.

Notes:

- "TO" (Time Operation):

Scanning will stop when it detects an active signal. The scanning will stop on each channel or active frequency for a predetermined time, after that time the scan will resume automatically.

- "CO" (Carrier Operation):

The scanning will stop and remain in the frequency or channel, until the active signal disappears. - "SE"(Search Operation):

The scanning will stop and remain in the frequency or channel after it detects an active signal.

12.12.- PTT-ID(PTT OR RELEASE PTT TO TRANSMIT THE SIGNAL CODE):

- -This feature allows you to know who call you.
- -"OFF"-Don't transmit the code while push the PTT button.
- -"BOT"-Transmit the code while push the PTT button.(the code only could be set by PC software.)
- -"EOT"-Transmit the code while release the PTT button.
- -"BOTH"-Transmit the code while push or release the PTT button.

12.13.- BCL(BUSY CHANNEL LOCKOUT):

The BCLO feature prevents the radio's transmitter from being activated if a signal strong enough to break through the "noise" squelch is present. On a frequency where stations using different CTCSS or DCS codes may be active, BCLO prevents you from disrupting their communications accidentally (because your radio may be muted by its own tone decoder).

12.14.- SFT-D(DIRECTION OF FREQUENCY SHIFT):

The "OFFSET" is the difference or offset between the reception frequency and the frequency of transmission for access to amateur radio repeaters. Set the "OFFSET" according to the "OFFSET" amateur radio repeater through which want to communicate.

12.15.- OFFSET(FREQUENCY SHIFT):

When communicating via a repeater, the direction of displacement of frequency should be timed to the displacement of the transmission frequency is higher or lower than the receiving frequency. example:

If we want to make a communication through amateur radio repeater whose frequency input is 145,000 MHz and 145,000 MHz is output, we select the "OFFSET" of the previous section in 0600 and the direction of travel "SHIFT" programmed to [-], so the transceiver will always 145,600 MHz in frequency and when you press [PTT] to transmit transceiver, the frequency will automatically move to 145,000 MHz

12.16.-STE (TAIL TONE ELIMATION):

This function is used to activate or deactivate the transmission end of the transceiver. this final tone transmission only be used in communications between transceivers and not in communications through a repeater, which must be deactivated.

13.-CTCSS TABLE:

Nº	Tone(Hz)	N^o	Tone(Hz)	Nº	Tone(Hz)	N^o	Tone(Hz)	N^o	Tone(Hz)
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