



A. Key instruction

1. 【MEM】

Short press: Choose memory channel

Short press 【MEM】 to enter memory channel, Press microphone 【▲/▼】 key , total 6 memory channels available;

Short press 【MEM】 again to exit memory channel;

Long press: Store memory channel

Choose wanted channel, then long press 【MEM】 to enter storage mode, the channel number flashes, switch 【PUSH】 to choose the location to be stored (M1-M6), Long press 【MEM】 until the flashing channel number disappear, the storage is done.

2. 【MODE】

Short press: Choose working mode

Short press 【MODE】 to choose FM→AM→USB→LSB→PA;

Long press: No use, LCD display “ERROR”

3. 【BAND】

Short press: Choose working band

Short press 【BAND】 to choose A→B→C→D→E→F→G→H→I

Long press: : No use, LCD display “ERROR”

4. 【FRQ】

Short press: Switch between frequency mode and channel mode.

Long press: No use, LCD display “ERROR”

5. 【MENU】

Short press: Short press【MENU】, the top left of LCD display “F”, Press【PUSH】to enter menu list and change setting for present channel.

Long press: In standby, Long press 【MENU】 2seconds to enter Background setting menu;

6. 【SCAN】

Short press: Scan function

Short press 【SCAN】 to start scan function, “SC” flashes in the LCD;

In scan mode, switch **【PUSH】** will change scan direction;

Short press **【SCAN】** again to exit scan;

Long press: Add/delete scan list.

In channel mode, Long press **【SCAN】** for 2 seconds will add or delete present channel from scan list.

1、 When LCD displays “SC”, means present channel is added to scan list.

2、 When LCD does not displays “SC”, means present channel is not added to scan list.

Note: this function is equal the operation in Channel setting Menu No.6 menu.

7. **【DW】**

Short press: Dual watch function.

1、 Short press **【DW】** to turn on Dual watch , LCD displays “DW”;

2、 Short press **【DW】** again or press **【PTT】** to exit DW mode;

Long press: Setting dual watch

1、 Hold **【DW】** for 2 seconds to enter setting, LCD displays “DW”;

2、 Switch **【PUSH】** to choose dual watch channel. Long press **【DW】** again to store and exit.

8. **【EMG】**

Short press: Choose EMG channel

Short press **【EMG】** to choose EMG, LCD displays “EMG”;

1、 Short press **【EMG】** once to choose CH9;

2、 Short press **【EMG】** again to choose CH19;

3、 Short press **【EMG】** thrice to return to last normal channel.;

Long press: Key lock

1、 Long press **【EMG】** to lock keys, LCD displays “”;

2、 Long press **【EMG】** again to unlock the keys;

Note: During key lock, only PTT button is valid;

9. **PWR: RF power adjustment**

In Transmit mode, switch **【PWR/RFG】** outer shaft to adjust FM/AM/USB/LSB power;

10. **RFG: RF again adjustment**

In receiving mode, switch **【PWR/RFG】** inner shaft to adjust RF gain;

11. **SQ: Squelch level control**

Turn the switch **【CLAR/SQ】** outer shaft clockwise, LCD displays SQ: XX, XX. Stands for squelch level, total 1-36 level available.

12. **CLAR: USB/LSB/CW frequency adjustment**

Switch **【CLAR/SQ】** inner shaft to adjust USB/LSB frequency.

13. **VOL: Turn On/Off radio, Volume control**

1、 Turn on radio: switch **【VOL/OFF】** clockwise to turn on the radio.

2、 Turn off radio: switch **【VOL/OFF】** anti clockwise to end to turn off radio..

3、 Volume control: When the radio is turned on, switch **【VOL】** to adjust volume level, LCD displays VOL: XX, XX stands for the volume level. Total 1-3 level available.

14. **PUSH : Channel /frequency adjustment**

1、 Channel adjustment: In channel mode, switch **【PUSH】** to choose wanted channel.

- 2、Frequency adjustment: In frequency mode, press **【PUSH】** to adjust frequency, each press of **【PUSH】** will adjust one step size;

B. Channel setting Menu

- 1、Press **【MENU】** , top left of LCD display “F”, Press **【PUSH】** to enter menu list.
- 2、Switch **【PUSH】** to find No 1- No. 6 menus.
- 3、Press **【PUSH】** to choose the menu.
- 4、Switch **【PUSH】** to choose wanted value.
- 5、Press **【PUSH】** to return to Previous Menu, Press any other key or wait 5 second, the setting will be stored and exit channel setting.

Menu number	LCD display	Value available and its description
1	PD	OFF: Choose independent channel menu to edit present channel function ON: Choose public channel menu to edit present channel function
2	BUSY	OFF: Shut busy channel lockout function; ON: Open busy channel lockout function;
3	REP	REP+: Open offset direction function, TX frequency> RX frequency; REP-: Open offset direction function, RX frequency> TX frequency; OFF: Shut offset direction function
4	RXC	CTCSS: 67.0Hz~250.3Hz, Total 38 groups; DCS: D023N~D754N, Total 104 groups; OFF: Shut CTCSS/DCS decode
5	TXC	CTCSS: 67.0Hz~250.3Hz, Total 38 groups; DCS: D023N~D754N, Total 104 groups; OFF: Shut CTCSS/DCS encode
6	SCAN	ADD: LCD displays “SC”, present channel is added to scan list. DEL: LCD does not display “SC”, present channel is not added to scan list.

C. Public Channel function setting menu

- 1、Hold **【PUSH】** for over 2seconds to enter menu list;
- 2、Switch **【PUSH】** to find menu No. 1 to No 5.
- 3、Press **【PUSH】** to choose the menu;
- 4、Switch **【PUSH】** to choose wanted value.
- 5、Press **【PUSH】** to return to Previous Menu, Press any other key or wait 5 second, the setting will be stored and exit channel setting.

Menu number	LCD display	Value and its description
1	HICUT	OFF: Shut HI-CUT function; ON: Open HI-CUT function
2	NB	OFF: Shut NB function; ON: Open NB function
3	ECHO	OFF: Shut ECHO function; ON: Open ECHO function;

4	10KHZ	OFF: Shut +10KHz function; ON: Open +10KHz function;
5	ROGER	1-6, OFF Total 7 groups. OFF is Shut ROGER function;

D. Background setting menu

- 1、 Hold **【MENU】** for over 2seconds to enter menu list;
- 2、 Switch **【PUSH】** to find menu No. 1 to No 11.
- 3、 Press **【PUSH】** to choose the menu;
- 4、 Switch **【PUSH】** to choose wanted value.
- 5、 Press **【PUSH】** to return to Previous Menu, Press any other key or wait 5 second, the setting will be stored and exit channel setting.

Menu number	LCD display	Value and its description
1	BEEP	OFF: Shut BEEP function; ON: Open BEEP function;
2	INDIC	OFF: LCD displays TX frequency during transmitting. SWR: LCD displays SWR value during transmitting. TOT: LCD displays TOT remain time during transmitting. DC: LCD displays voltage during transmitting.
3	MIC	1-36, Total 36 levels available.
4	NOG	1-32, OFF, Total 33 levels available, OFF is Shut NOG function;
5	TOT	1-600s, OFF, Total 10minutes available, OFF is Shut TOT function;
6	TSR	OFF: Shut SWR function; ON: Open SWR function;
7	TDC	OFF: Shut voltage protection function; ON: Open voltage protection function;
8	SCAN	SQ: SQ scan function; TI: Time scan function;
9	FIN	OFF: Shut frequency adjustment function; R: Open RX frequency adjustment function; T: Open TX frequency adjustment function; RT: Open TX and RX frequency adjustment function
10	COLOR	WHITE: White LCD display; BLUE: Blue LCD display; GREEN: Green LCD display; RED: Red LCD display; YELLOW: Yellow LCD display; PURPLE: Purple LCD display; CYAN: Cyan LCD display;
11	RESET	OPT: All function setting resume factory default; ANL: All channel function setting resume factory default