Emergency alarm

Hold down "Call" key for 1 second and press "Moni" key the radio will emergency alarm.

Call to receiver

Press and hold the "Call" key for 2 seconds. The receiver will ring.

Key lock function

Press to display "LOCK?", displaying if locking the key (press for two seconds and the key is locked), and then press , after displaying "UNLOCK" for two seconds, it is unlocked.



Scrambler function

After pressing key, press key to enter secret talk function; turning the encoding switch can select the switch of this function; enabling this function can make your talk content more secure.

Channel scan

The scan is convenient for monitoring the frequency that you want without hand operation.

Complete channel scan

Press (MENU) + (300) key, and press ENT key to confirm. The scan starts from the channel/frequency displayed; when scanning that the channel has signals, the transceiver stays three seconds on the channel; now press (MENU) key, and the transceiver stops scanning and stays on the channel scanned, otherwise it continues to scan the next channel.

Scan mode selection

Press key and turn the encoder to 20 item, displaying "SMODE.?20"; press key to confirm, and turn the encoder again: Select "TO", indicating time scan; during time scan, the transceiver will stay in the channel with signals; set (scan stay time) to, and continue scanning the next channel. Select "CO", indicating carrier scan; during carrier scan, the transceiver will stay in the channel with signals, until the signals disappear; after the signals pisappear, the scan goes on; Select "SE" indicating SE scan; During SE scan, the transceiver will stay, in the channel with signals.

Wireclone Function

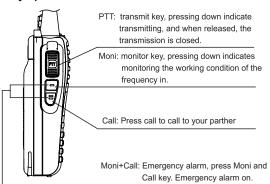
After connecting the duplication line, press LAMP key to turn on the phone; after the LCD displays "COPY", press PTT key to duplicate the data to another transceiver.

Double audio frequency coding

The telphone set has the function of double audio frequency coding. The number keys or other function keys are directly input in transmitting mode, the corresponding double audio frequency coding will be sent out. The double audio frequency coding sent out by function keys are as follows:



Side key operation



Basic use method

 \mathbf{m}

IJ

Select mode

Press (round) key, the transceiver can between channel and frequency mode.

Store

In frequency mode select desired frequency or any other items like CTCSS, DCS. Press (MENU) then press

Delete

1. Delete one store channel

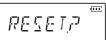
Hold down key and turn on the power. "DEL?" and stored channel number will display on LCD. Turn encoder which need to be deleted, press ker until "YES?" display, and press ker to delete the channel.

		(III)
BEL	ŗ	01

2. Delete all setting of frequency mode

Hold down (MEND) and turn on power until display "RESET?", press (ENT) until display "VFO?".

Press (ENT) to confirm and delete all setting of frequency mode.



3. Delete all setting

Hold down (MEND) and turn on power until display "RESET?", press (ENT) until display "VFO?".

Turn the encoder to select "FULL?", press (ENT) to confirm and delete all setting of channel mode.



Shortcut function setting

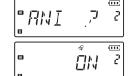
Squelch threshold setting

Press (MENU) + (1) key, and the screen displays "SQL?1"; press (ENT) key and it displays "SQL1"; turn the encoder to select the squelch level you need, and there are (0-9) for you to choose; press (ENT) key to confirm and press (ENT) key to exit.

The starting of ANI function

Press " MENU + (211) "key, "ANI? 2" will be displayed on the screen, press (ENT) key to display "ON" expressing ANI function has been started; selection for revolving coding switch; Press (ENT) to confirm, press (ENT) to exit.

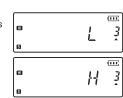
Note: The PTT ID content should be programmed by PC software.





Transmission power setting

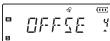
Press Press



Scrambling switch setting

Press (MENU) + (Left) key, and the screen displays "SCRAM?4"; press (ENT) key and it displays "ON", indicating that the scrambler is on; turn the encoder to select; it displays "OFF", indicating that the scrambler is off; press (ENT) key to confirm and press (ENT) key to exit.





setting

Shortcut function

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Voice Compander functions

Press MENU + (Sup "key, "COMP? 5" will be displayed on the screen. Press ENT key to display "ON" expressing voice compander function has been open; selcetion for revolving code switch; press ENT key to confirm and press ENT key to exit.

H	Θ̈́Ν	5
H	OFFŠE	5

Tone on and off

Press (NENU) + (NEW) key, and the screen displays "BEEP?7"; press (NEW) key and it displays "ON", indicating that the tone is on; turn the encoder, and it displays "OFF", indicating that the tone is off.

Press (NEW) key to confirm and press (NEW) key to evit



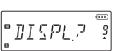
Transmission time limit setting

Press " (MENU) + (\$\frac{1}{2})\" ikey, and the screen display "TOT? 8"; press (ENT) key and turn the encoder to select "OFF~600S" step to 15S; Press (ENT) key to cofirm and press (ENT) key to exit.



Display mode seting

Press " (MENU) + (3) ", "DISPL ? 9" will be displayed on the screen, after press (ENT) key, revolving coding switch selecet the display mode of intercon (VFO/MR/CHANNE); press (ENT) to confirm, press EXIT to exit.



Sound control sensitivity setting

When you want to use the sound control function, press (MENU) + (LE) key, and the screen displays "VOX?12"; press (ENT) key and it displays "VOX OFF". Turn the encoder (0-9) to select the sensitivity level needed. Press (ENT) key to confirm and press (ENT) key to exit. The factory default setting is "VOX OFF".

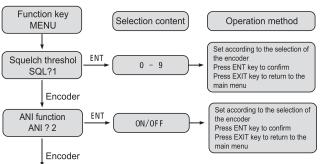


Menu function setting

- 1. Press (MENU) key to enter menu mode
- 2. Turn the encoder to select the menu option to be used.
- 3. Press (ENT) key and enter the menu item to set.

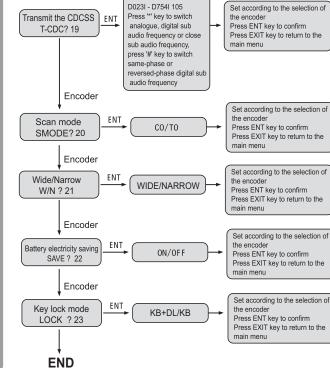
 For some menu items, it is necessary to press (ENT) key, and then use the encoder to select the numeric value, and finally press (ENT) key to finish the setting.
- 4. After the setting is finished, press (EXIT) key to exit the menu mode.

Menu operation mode



Menu function setting

500B



OFF 67.0 - 254.1

D023N - D754N 105

Self-station programming mode

After entering self-station programming mode, the hand held phone allows carrying out channel setting. Operation

- Press err key to turn on the transceiver , and keep pressing for two seconds; after the screen displays "SELF", it enters self-station programming mode.
- SELF 7
- 2. After entering self-station programming mode, press ENT key.
- 3. After you set the data, press (ENT), and you can go on to coordinate the next item

Select the setting item Display (for example) Setting content

Set Channel Number

When the channel numbers are not set, the following items will not be selected

EH- I

Channel scope 1-128

Set receiving frequency

When the receiving frequency is not set (the setting is "blank"), the following items will not be selected (item number 3-8 will not be selected); when the setting is "blank", you will return to "set

setting is 135,000

Set receiving CTCSS/DCS

channel number"

When the channel number is not set, this item will be skipped

OFFSE

3 OFF

670

CTCSS(CTCSS frequency table)67.0.Hz-250.3Hz (Note: ①)

1023N

DCS (DCS normal/reverse table)023-754 normal setting(Note: ②)

10231

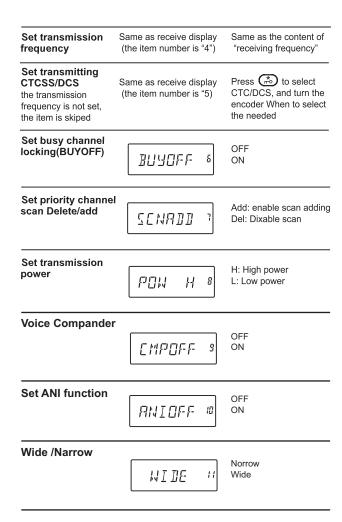
DCS (DCS normal/reverse table)023-754 normal setting(Note: ②)

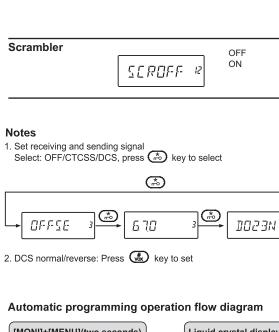
Menu function setting

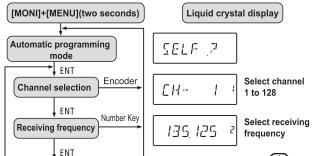
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670

Encoder

Receiving signal

↓ ENT

Press (**) key to

switch to select receiving signal Number Key

Encoder

Encoder

Encoder

Encoder

Encoder

Encoder

Encoder

Encoder

ENI

135, 125

BUYOFF

SENAIL

670

Transmission

frequency

Transmission signal

Busy channel locking

Priority channel scar

Transmission power

Set voice compander

Set ANI function

Wide /Narrow

Scrambler

function

ENT

ENT

ENT

ENT

ENT

ENT

. ENT

ENT

ステラ

Radio function

Select transmission

Press (**) key to

switch to select transmission signal

Add: enable scan

adding

Del: forbid scan

H: High power

L: Low power

OFF

ON

OFF

ON

Norrow

Wide

OFF

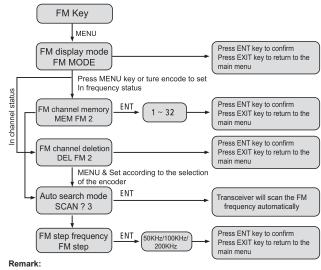
frequency

OFF

ON

Press (FM) Key, and the transceiver enters FM radio status.

Radio function setting



①FM auto search: When entering FM auto search mode, the transceiver will scan the FM frequency automatically, from 76~108MHz. Once one FM frequency is scanned, the frequency will be displayed on LCD and the transceiver will save the frequency to the memory automatically (transceiver can save maximum 32 frequencies). When FM auto search completed, the transceiver will return to FM radio status.

FM interruption type Set "ON", once transceiver is received correct RF signal. The transceiver will be exited FM radio mode and will entering transceiver receiver mode automaticallg, Afte transceiver signal is disappeared 10 seconds, it will entering FM mode again. If (FM interruption type) set "OFF", in the FM radio mode, no matter receiver to the signal of transceiver, it will been working in the FM radio mode all the time, but transceiver signal level will be displayed on LCD.

Attached tables

Attached tables

50 Groups of CTCSS Frequency (Hz)

67. 0	85. 4	107. 2	136. 5	165. 5	186. 2	210. 7	254. 1
69. 3	88. 5	110. 9	141. 3	167. 9	189. 9	218. 1	
71. 9	91. 5	114. 8	146. 2	171. 3	192. 8	225. 7	
74. 4	94. 8	118. 8	151. 4	173. 8	196. 6	229. 1	
77. 0	97. 4	123. 0	156. 7	177. 3	199. 5	233. 6	
79. 7	100. 0	127. 3	159. 8	179. 9	203. 5	241. 8	
82. 5	103. 5	131. 8	162. 2	183. 5	206. 5	250. 3	

104+1 Groups of DCS Codes

023 065 132 205 255 331 413 465 612 72 025 071 134 212 261 332 423 466 624 73 026 072 143 223 263 343 431 503 627 73 031 073 145 225 265 346 432 506 631 73 032 074 152 226 266 351 445 516 632 74 036 114 155 243 271 356 446 523 645 75
026 072 143 223 263 343 431 503 627 73 031 073 145 225 265 346 432 506 631 73 032 074 152 226 266 351 445 516 632 74
031 073 145 225 265 346 432 506 631 73 032 074 152 226 266 351 445 516 632 74
032 074 152 226 266 351 445 516 632 74
036 114 155 243 271 356 446 523 645 75
030 114 133 243 271 330 440 323 643 73
043 115 156 244 274 364 452 526 654
047 116 162 245 306 365 454 532 662
051 122 165 246 311 371 455 546 664
053 125 172 251 315 411 462 565 703
054 131 174 252 325 412 464 606 712

Fault handling guide

Problem	Solution
No power	 The battery group may be consumed up; please replace the battery or charge again. The battery group may not be correctly installed; please take off the battery group and install again.
The battery cannot last long after being charged.	The life of the battery group is to the end, please replace the battery.
Cannot talk with the other members in the group.	Confirm if the frequency and sub audio frequency signal sound that you use is the same as those of the other members. The other members in the group may be too far away.Confirm if you are in the effective range of the other interphones.
Other voice (non group member) appear in the channel.	Please change the sub audio frequency signal sound. Now, it is a must to change the signal sound of all the transceiver in the group.

SAFETY TRAINING INFORMATION

This Radio has been tested and complies with the Federal Communications Commission(FCC) RF exposure limits for Occupational Use/Controlled exposure environment. In addition, it complies with the following Standards and Guidelines:

47 CFR part 2 sub-part j, United States Federal Communications Commission, Code of
Federal Regulations
FCC OET Bulletin 65 Edition 01-01(2001) Supplement C, Evaluating Compliance with FCC
Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields.
ANSI/IEEE C95.1-1992, IEEE Standard for Safety Levels with Respect to Human Exposure
to Radio Frequency Electromagnetic Fields, 3kHz to 300GHz.
ANSI/IEEE C95.3-1992, IEEE Recommended Practice for the Measurement of Potentially
Hazardous Electromagnetic Fields-RF and Microwave.

WARNING: This radio generates RF electromagnetic energy during transmit mode. This radio is designed for and classified as *Occupational Use Only*, meaning it must be used only during the course of employment by individuals aware of the hazards, and the ways to minimize such hazards. This radio is not intended for use by the *General Population* in an uncontrolled environment.



CAUTION: To ensure that your expose to RF electromagnetic energy is within the FCC allowable limits for occupational use, always adhere to the following guidelines:

RF Exposure Compliance and Control Guidelines and Operating Instructions

- This radio is NOT approved for use by the general population in an uncontrolled environment. This radio is restricted to occupational use, work related operations only where the radio operator must have the knowledge to control its RF exposure conditions.
- When transmitting, hold the radio in a vertical position with its microphone 1 to 2 inches (2.5 to 5.0cm) away from your mouth and keep the antenna at least 1 inch (2.5cm) away from your head and body.
- The radio must be used with a maximum operating duty cycle not exceeding 50%, in typical Push-to-Talk(PTT) configurations, DO NOT transmit for more than 50% of total radio use time (50% duty cycle). Transmitting more than 50% of the time can cause FCC RF exposure compliance requirements to be exceeded.

The radio is transmitting when the red LED on the top of the radio is illuminated. You can cause the radio to transmit by pressing the PTT button.

Note: **Time-out timer**: The selected channel has been programmed for Time-Out timer, you must limit the length of each transmission, Wile transmitting, a beep will sound 10 seconds before time-out. Another beep will sound just before the deadline; The TX indicator will

disappear the transmission will cease soon thereafter. To resume transmitting, you must release the PTT switch and wait for the "penalty timer" to expire (if you press the PTT switch before this timer expires, the timer restarts, and you will have to wait another "penalty" period). To ensure that the radio must be used with a maximum operating duty cycle not exceeding 50%, but for VOX mode, the maximum operating duty cycle may be up to 100%.

■ DON NOT transmit when the radio is used in Body Worn configuration with the following accessory: belt-clip(CLIP-18). It must be used ONLY for (1) there is a 1 inch (2.5cm) distance from the body during transmitting, (2) monitoring purposes, using the speaker only and (3) for carrying purposes.

The information listed above provides the user with the information needed to make him or her aware of RF exposure, and what to do to assure that this radio operates with the FCC RF exposure limits of this radio.

Electromagnetic Interference/Compatibility

During transmission, this radio generates RF energy that can possibly cause interference with other devices or systems. To avoid such interference, turn off the radio in areas where signs are posted to do so.

Do not operate the transmitter in areas that are sensitive to electromagnetic radiation such as hoptials, health care facilities, aircraft, and blasting sites.

Changes or modifications to this device, not expressly approved by KONGTOP, could void your authority to operate this transcevier under FCC regulations.

FCC LICENSE INFORMATION

This radio operates on communications frequencies which are subject to FCC (Federal Communication Commission) Rules and Regulations. FCC Rules require that all operators using Private Land Mobile radio frequencies obtain a radio license before operating their equipment.

CE Notes:

Manufacturer: KONGTOP Industrial (Shenzhen) Co., Ltd.

Address: Xinwuyuan Industrial Area, Gushu, Xixiang, Baoan, Shenzhen, P.R.China

Factory: KONGTOP Industrial (Shenzhen) Co., Ltd.

Address: Xinwuyuan Industrial Area, Gushu, Xixiang, Baoan, Shenzhen, P.R.China declare that this **KT-500** is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. A copy of the DoC may be obtained through the address above.