Thanks for buying the Wouxun KG-699E series transceiver. This transceiver offers latest in design, multi-functionality, stable behaviour and easy operation. We believe you will be pleased with the high quality and dependable features for all your communication needs.

User Safety, Training, and General Information

READ THIS IMPORTANT INFORMATION ON SAFE AND EFFICIENT OPERATION BEFORE USING YOUR WOUXUN PORTABLE TWO-WAY RADIO.

Compliance with RF Energy Exposure Standards

Your WOUXUN two-way radio is designed and tested to comply with a number of national and international standards and guidelines (listed below) regarding human exposure to radio frequency electromagnetic energy. This radio complies with the IEEE (FCC) and ICNIRP exposure limits for occupational/controlled RF exposure environment at duty cycles of up to 50% talk-50% listen and should be used for occupational use only. In terms of measuring RF energy for compliance with the FCC exposure guidelines, your radio radiates measurable RF energy only while it is transmitting (during talking), not when it is receiving (listening) or in standby mode.

NOTE ⚠

» The approved batteries supplied with this radio are rated for a 5-5-90 duty cycle (5% talk-5% listen-90% standby), even though this radio complies with the FCC occupational RF exposure limits at duty cycles of up to 50% talk.

Your WOUXUN two-way radio Complies with the following of RF energy exposure standards and guidelines:

- United States Federal Communications Commission, Code of Federal Regulations; 47CFR part 2 sub-part J
- American National Standards Institute (ANSI)/Institute of Electrical and Electronic Engineers (IEEE) C95. 1-1992
- Institute of Electrical and Electronic Engineers (IEEE) C95. 1-1999 Edition
- International Commission on Non-Ionizing Radiation Protection (ICNIRP) 1998

Operational Instructions and Training Guidelines

To ensure optimal performance and compliance with the occupational/controlled environment RF energy exposure limits in the above standards and guidelines, users should transmit no more than 50% of the time and always adhere to the following procedures:

Transmit and Receive

To transmit (talk), push the Push-To-Talk (PTT) button; to receive, release the PTT button.

Hand-held radio operation

Hold the radio in a vertical position with the microphone 5 cm away from the lips and let the antenna

farther away from your head.

Body-worn operation

Always place the radio in a Wouxun approved clip, holder, holster, case, or body harness for this product. Use of non- Wouxun -approved accessories may exceed FCC RF exposure guidelines.

Antennas & Batteries

- Use only Wouxun approved, supplied antenna or Wouxun approved replacement antenna.
- Unauthorized antennas, modifications, or attachments could damage the radio and may violate FCC regulations.
- Use only Wouxun approved, supplied batteries or Wouxun approved replacement batteries.
- Use of non- Wouxun -approved batteries may exceed FCC RF exposure guidelines.

Approved Accessories

For a list of Wouxun approved accessories, see the accessories page of this user manual or visit the following website which lists approved accessories:http://www.wouxun.com

Notices to the User

- Government law prohibits the operation of unlicensed radio transmitters within the territories under government control.
- Illegal operation is punishable by fine or imprisonment or both.
- Refer service to qualified technicians only.

WARNING: It is important that the operator is aware of and understand hazards common to the operation of any transceiver. Explosive environment(such as gases, dust, fumes, etc). Turn off your transceiver while talking on fuel, or while parked in gasoline service stations.

If you require this machine to be developed or some changed, pleased connect with Wouxun or your Wouxun dealer.

FCC Caution:

This equipment has been tested and found to comply with the part 90 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 harmfu l 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.

FCC Licensing Requirements

Your radio must be properly licensed Federal Communications Commission prior to use. Your WOUXUN Wireless dealer can assist you in meeting these requirements. Your dealer will program each radio with your authorized frequencies, signaling codes, etc., and will be there to meet your communications needs as your system expands.

Precautions

Only qualified technicians are allowed to maintain this product.

Do not use the radio or charge a battery in explosive areas such as coal gas, dust, steam, etc.

Switch OFF the radio while refueling or parking at gas station.

Do not modify or adjust this radio without permission.

Do not expose the radio to direct sunlight over a long time, nor place it close to heating source.

Do not place the radio in excessively dusty, humid areas, nor on unstable surfaces.

Safety: It is important that the operator is aware of and understands hazards common to the operation of any radio.

CE Caution:

Hereby, WOUXUN declares that this Two-way radio 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 following address.

Address: No.928 Nanhuan Road, Jiangnan High Technology Industrial Park, Quanzhou, Fujian 362000, China

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Unpacking and checking of your equipment

Carefully unpack the transceiver. We recommend that you identify the items in the following table before discarding the packing material. If any items are missing or have been damaged during shipment, please notify your WOUXUN dealer.

Supplied accessories


Transceiver


Transceiver


High gain antenna


Li-ion batterypack


Intelligent charger


Adapter

Beltclip


Handstrap


User's manual


Service card

Description of functions

WOUXUN Professional FM Transceiver

1. VHF: 66-88MHz VHF: 136-174MHz VHF: 245-246MHz
   UHF: 300-350MHz UHF: 350-390MHz UHF: 400-470.9875MHz UHF: 450-520MHz
2. Output power: VHF: 5W/1W UHF: 4W/1W
3. 200 memory channels
4. In frequency mode, VHF Dual frequencies or UHF Dual frequencies display and standby.
5. In channel mode, VHF Dual channels or UHF Dual channels display and standby.
6. DTMF encoding and decoding
7. 5 tones (including 15 kinds standard)
8. 2 tones
9. 1750Hz burst tone
10. Priority scan
11. FM radio with frequency display
12. DCS/CTCSS of RX and TX can be set respectively
13. ANI (caller ID)
14. VOX
15. All calls, group calls and selective calls function
16. Calling ring function
17. Scrambler available
18. 105 groups DCS / 50 groups CTCSS
19. Voiceguide (English/Chinese)
20. Wide/Narrow bandwidth selection (25KHz/12.5KHz)
21. Three color back light display.

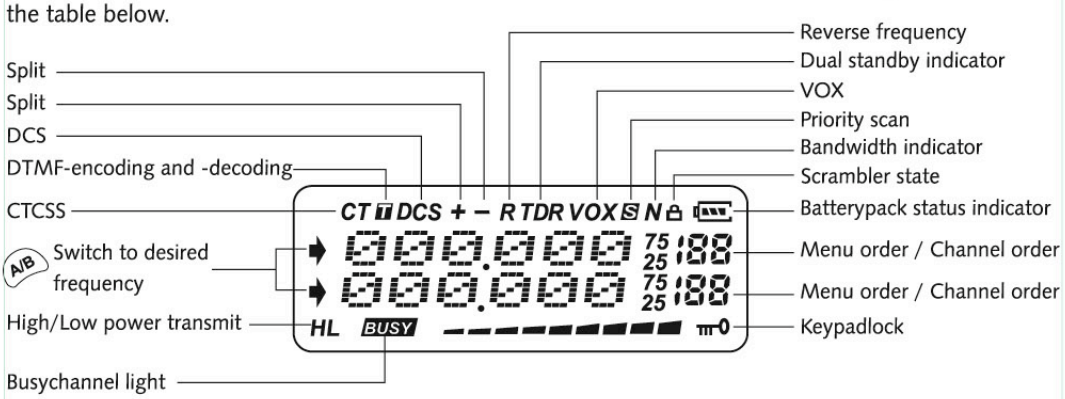
Description of functions

20. Channel name edit available.
21. Channel order, channel frequeny, channel name multi-display method
22. Reverse frequency function
23. Distant urgency alarm function
24. Multi scan function
25. Channel steps (5/6.25/10/12.5/25KHz)
26. High/Low power changeable when on transmitting.
27. Intelligentcharger (Warning sound and dualcolor light)
28. TX/RX splitselection (0-99.950MHz)
29. Set frequencyshift direction
30. Stopwatchtimer function
31. Busy channel lockout
32. Multi display modes when power on (full screen / Batt-V / others)
33. Lowvoltage batterypack voiceprompt
34. Transmit overtime prompt
35. Keyboard lock (auto / manual)
36. Adding channelscan function
37. Programmable by computer
38. Menu / Channel reset
39. Wireclone function
40. Powersaving function
41. voice compress function

Getting started

LCD display

On the display you will see various indicators that show what function you have selected. Sometimes you may not recall what those indicators mean, or how to select them, in such a case, you can refer to the table below.



Note:

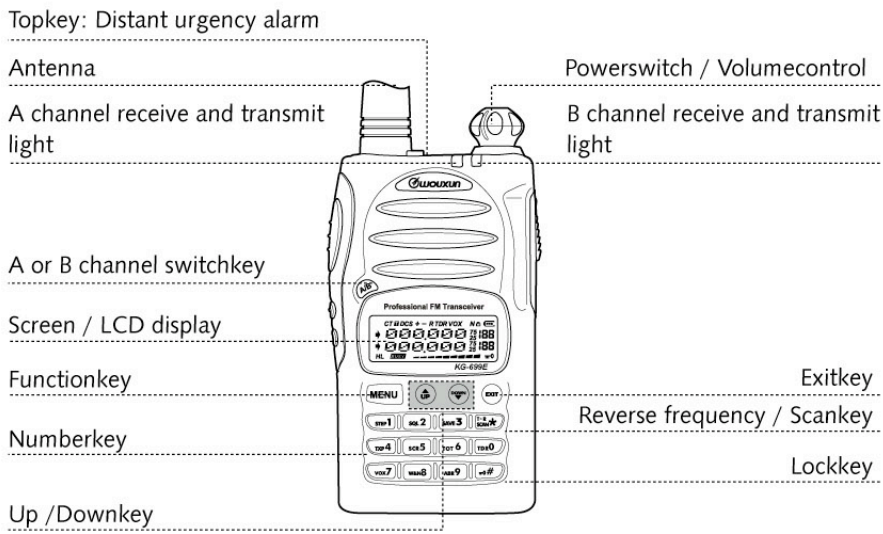
Batterypack capacity indicator (full)

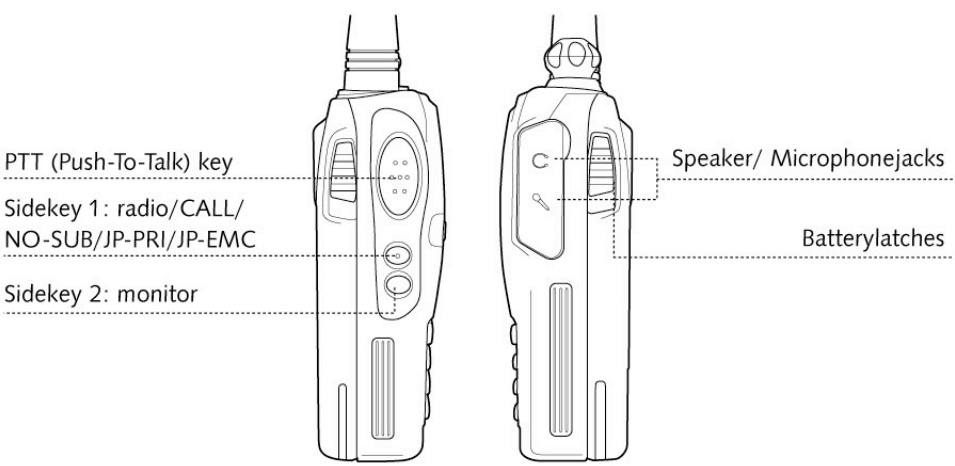
Batterypack capacity is exhausted

Batterypack capacity spare indicator

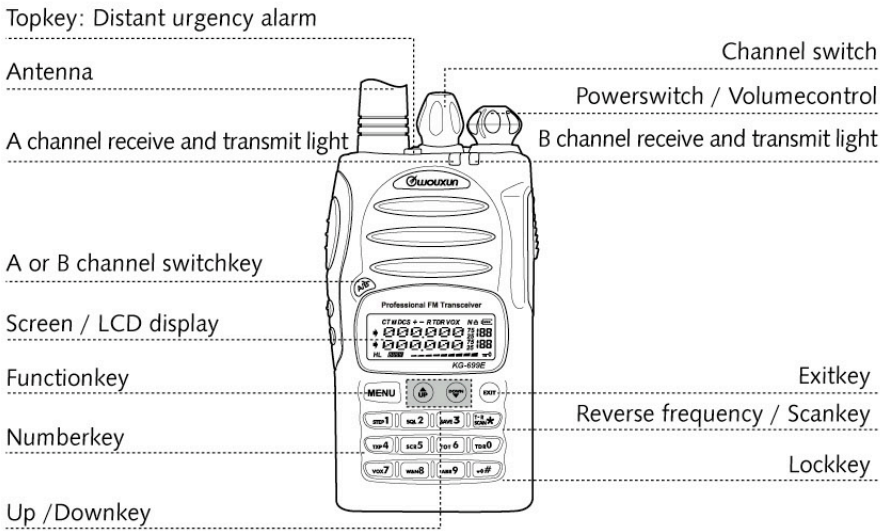
Receive signal meter

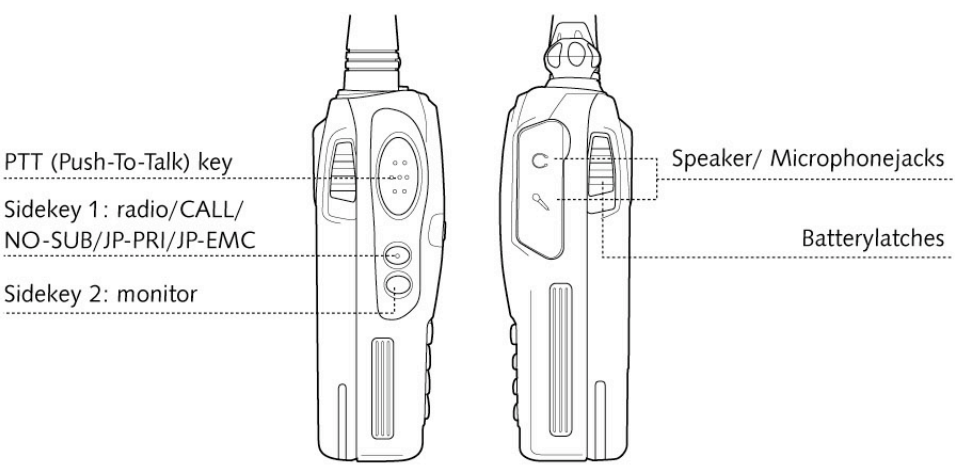
Description of transceiver (Single knob)





Description of transceiver (Double knob)





■ ***Speed search***

When setting each function or parameter, press the UP or DOWN key one time can speed search the function or parameter.

■ ***DTMF encoding***

This transceiver has DTMF encoding. By pressing the right number key on transmit you can choose the right DTMF tone which you want to TX.

MENU	UP	DOWN	EXIT
A	B	C	D

■ ***Switch working mode***

MENU + POWER ON

Channel mode ◄——————► Frequency mode

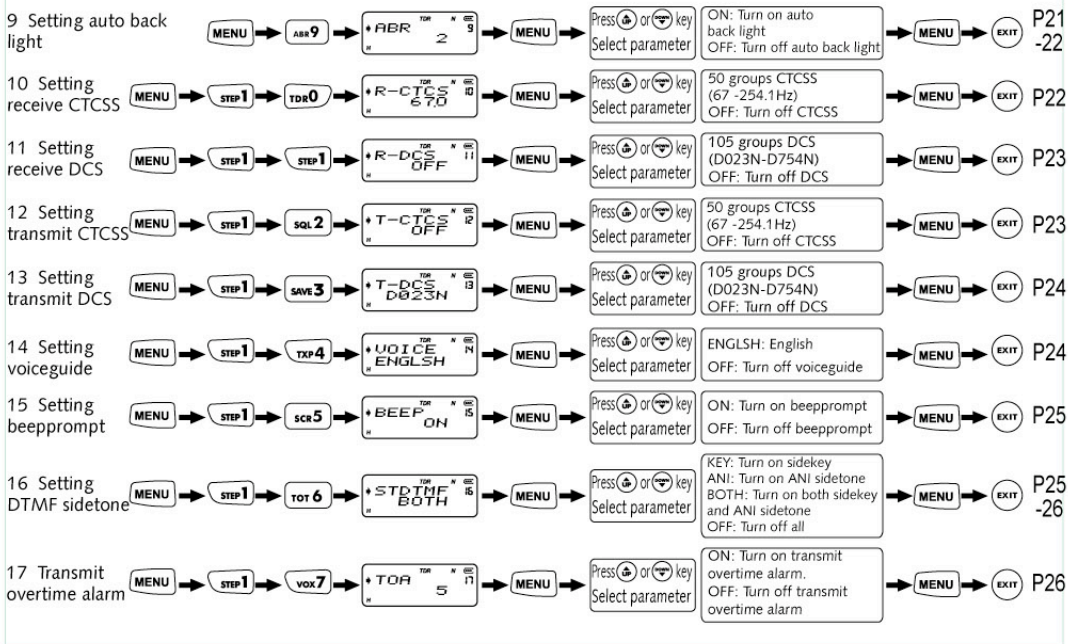
■ If you want to transmit the 1750Hz burst tone, you just press PTT and sidekey 1 at the same time.

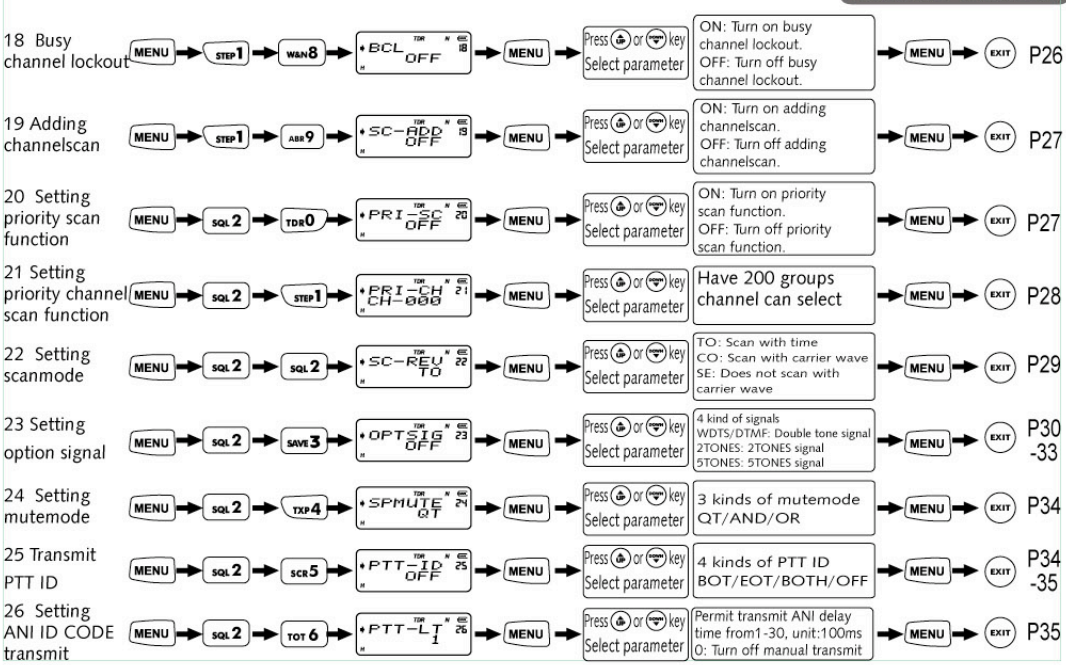
Shortcut operation sheet

wouxun Professional FM Transceiver

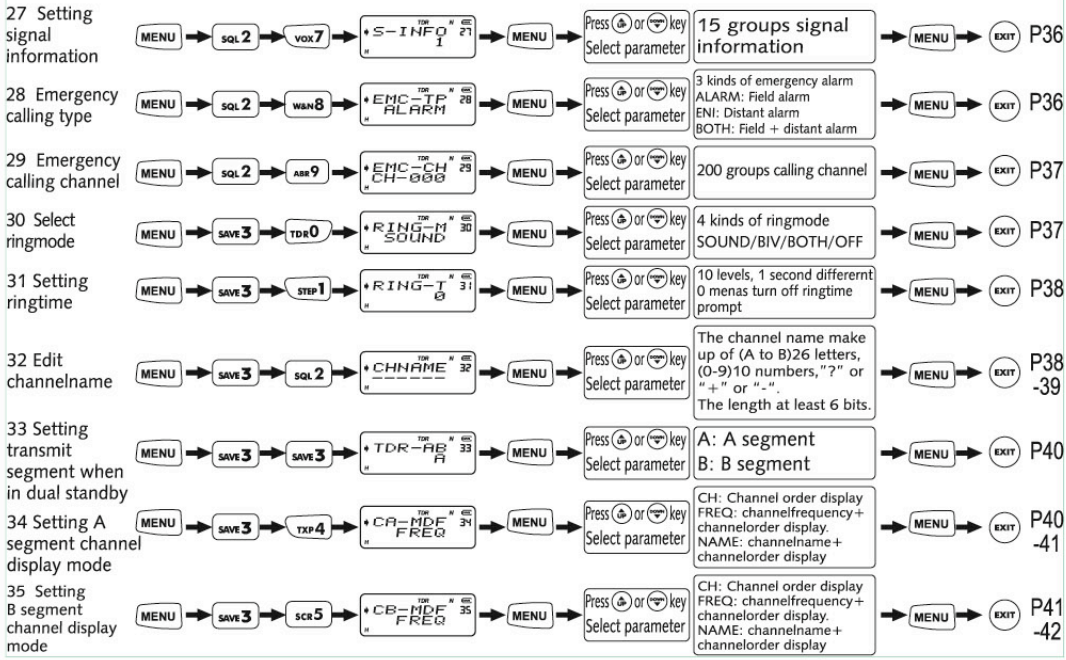
Function order	*Function name*	*Enter function set*	*Screen display*	*Select parameter*	*Selectable parameter-explanation*	*Confirm*	*Back*	*See page*
0	Setting dual standby	MENU → TDR 0	TDR ON	MENU	Press ▲ or ▼ key Select parameter	ON: Turn on dual standby OFF: Turn off dual standby	MENU	EXIT	P16 -17
1	Setting channel step	MENU → STEP 1	STEP 500K	MENU	Press ▲ or ▼ key Select parameter	5 kinds of channelstep 5K/6.25K/10K/12.5K/25K	MENU	EXIT	P17 -18
2	Setting squelch level	MENU → SQL 2	SQL-LE 5	MENU	Press ▲ or ▼ key Select parameter	Squelchlevel from 0-9	MENU	EXIT	P18
3	Setting batterypack savemode	MENU → SAVE 3	SAVE OFF	MENU	Press ▲ or ▼ key Select parameter	ON: Turn on save function 1:1/1:2/1:3/1:4 OFF: Turn off save function	MENU	EXIT	P19
4	Selecting transmit-power	MENU → TXP 4	TXP 1	MENU	Press ▲ or ▼ key Select parameter	6-10: High power (5W). 1-5: Low power (1W)	MENU	EXIT	P19
5	Setting voice encrypt compress	MENU → SCR 5	SCR OFF	MENU	Press ▲ or ▼ key Select parameter	ON: Turn on scrambler. OFF: Turn off scrambler.	MENU	EXIT	P20
6	Transmit over timer	MENU → TOT 6	TOT 60	MENU	Press ▲ or ▼ key Select parameter	TOT has 40 levels in steps of 15 seconds. OFF: Turn off TOT.	MENU	EXIT	P20
7	Setting VOX	MENU → VOX 7	VOX OFF	MENU	Press ▲ or ▼ key Select parameter	VOX has levels from 1 to 10. OFF: Turn off VOX.	MENU	EXIT	P21
8	Setting bandwidth	MENU → W&N 8	WN WIDE	MENU	Press ▲ or ▼ key Select parameter	WIDE: 25KHz. NARROW: 12.5KHz.	MENU	EXIT	P21

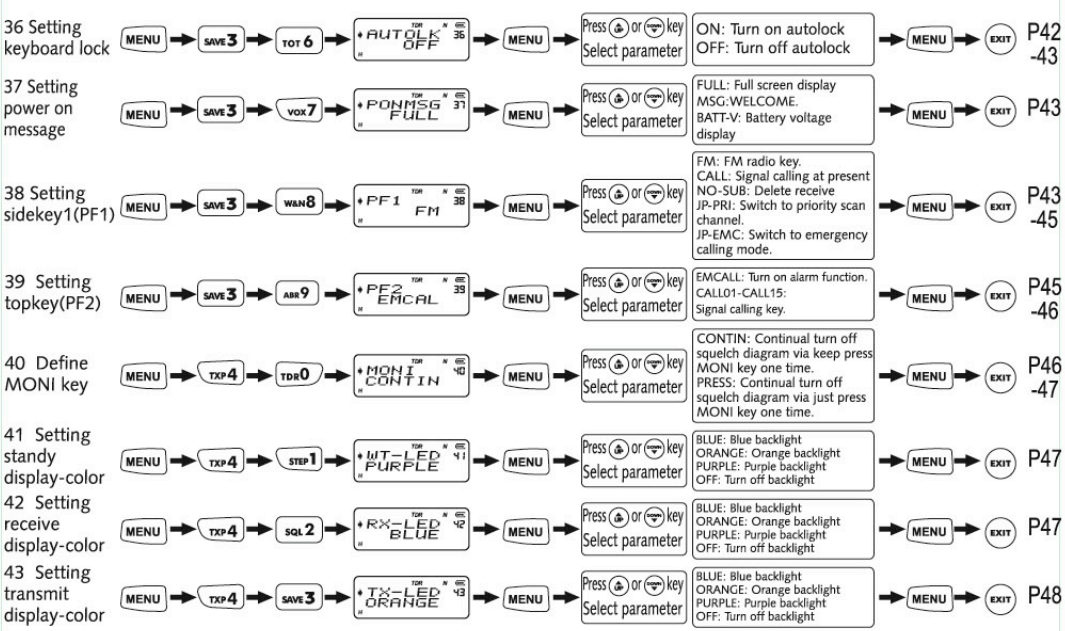
Shortcut operation sheet



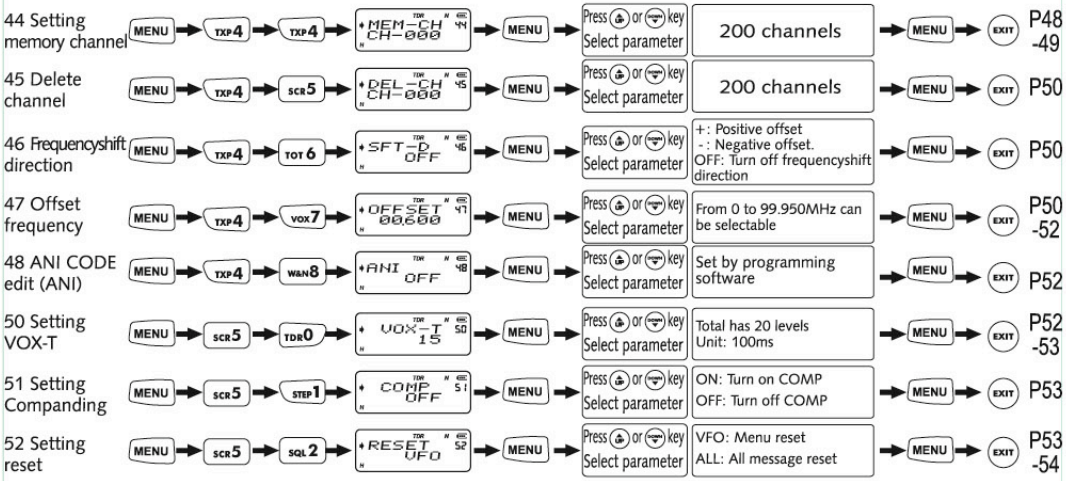


Shortcut operation sheet





Shortcut operation sheet



- Speed search (UP) / (DOWN) (See page 9)
- High/Low power changeable when on transmitting(See page 19)
- All calls, group calls and selective calls (See page 30-32)
- Setting reverse frequency function (See page 54)
- Lowvoltage batterypack voiceprompt (See page 55)
- Adding channelscan (See page 55)
- Wireclone function(See page 55)
- Programming repeater function (See page 56-57)

How to operate

Lock menu functions

If you don't need operate menu functions frequently, you can turn off it by KG-699E programming software. The steps as following:

1. Set password of switching between channelmode and frequencymode.
2. Set workmode as channelmode.
3. Turn off operating menu function in channelmode.

When you want to use menu functions, input password which you have set, and switch to frequencymode, then you can operate it.

NOTE

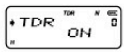
» The KG-699E has dualfrequency display. In frequencymode it will display two different transmit and receive frequency at the same time. In channelmode it will display the two different channels plus their parameters.

» In frequency and channelmode you can switch to A and B segment by pressing the topkey left above the LCD.

Setting dualstandby (TDR) --- MENU O

This menu is to turn on/off dualstandby. When it is switched to ON, the radio will start standby between A and B including their set parameters. Any channel or frequency has been received,then system will stay on corresponding channel or frequency, until channel or frequency signal disappear.

Once signal has disappeared, system will return to standby and start to flicker "TDR".

In standby, press [MENU] and number [TDR 0] and the screen will display 

Press [MENU] enter, arrowhead aim at "ON" position, press [UP] / [DOWN] select ON turn on dualstandby or OFF turn off dualstandby. Press [MENU] to confirm, then press [EXIT] to return to standby.

NOTE

» Standby time is set by auto-backlight. (See MENU 9)

Setting channel step (STEP) ---- MENU 1

In standby, press [MENU] and number [STEP 1] and the screen will display 

Press [MENU] enter, arrowhead aim at "5.00" and press [UP] / [DOWN] to select the channel step you desired.
Press [MENU] to confirm, then press [EXIT] to return to standby.
This transceiver has the option of 5KHz, 6.25KHz, 10KHz, 12.5KHz and 25KHz steps.

NOTE

» In frequencymode you have thirteen different settings to choose from channel step, transmit output power, voice encrypt compress, bandwidth,receive CTCSS and DCS, transmit CTCSS and DCS, optional signal, signal encode, mutemode, frequencyshift direction, offsetfrequency on A/B.

» In channelmode the next setting are not available to change: transmit output power, receive CTCSS and DCS,

NOTE

transmit CTCSS and DCS, optional signal, channel bandwidth, encoding signal, mutemode,PTT transmit, voice encrypt compress, busy channellockout, companding and adding channelscan.

» In channelmode the next three settings are not available to change on A/B segment: channel step, frequency-shift direction, offsetfrequency.

» In channelmode setting voice encrypt compress is available to change A/B segment.

Setting squelch level (SQL-LE) --- MENU 2

Select the level of squelch so that you will have no difficulty receiving the desired signal. When you set the level too high you will loose communication in a fringe area.

NOTE

» This transceiver has steps from 0-9, which step 0 is always open squelch. From 1 to 9 gives different levels of noise reduction.

In standby, press [MENU] + number [SQL 2] and the screen will display 

Press [MENU] enter, arrowhead aim at "5" position by going [UP] / [DOWN] to select the desired squelch.
Press [MENU] to confirm, then press [EXIT] to return to standby.

Setting batterypack savemode (SAVE)--- MENU3

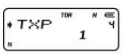
In standby, press [MENU] + number [SAVE 3] and the screen will display 

Press [MENU] enter, arrowhead aim at "OFF" position, press [UP] / [DOWN] select one of 1:1/ 1:2/1:3/1:4/OFF.

Press [MENU] to confirm, then press [EXIT] to return to standby.

1:1/1:2/1:3/1:4 means the radio receive circuit turn on and off pulse ratio.

Selecting transmitpower (TXP)--- MENU4

In frequencymode, press [MENU] + number [TXP 4] and the screen will display 

Press [MENU] enter, arrowhead aim at "1" position, press [UP] / [DOWN] and select the desired powerlevel.

Press [MENU] to confirm, then press [EXIT] to return to standby.

NOTE ⚠

» This transmitpower has 10 levels can be selected, this means it will higher and higher from 1 to 10. High/Low power can be changed during transmit. Press PTT key and topkey at the same time, this will change High/Low power.

Setting voice encrypt compress (SCR)--- MENU 5

SCR: Use the scrambler, it can encrypt the communication and make the transceiver who does not use the scrambler can't hear clear what you are talking, meanwhile you also can't hear clear others, what they are talking who does not use the scrambler.

In standby, press [MENU] + number [SCR 5] and the screen will display 

Press [MENU] enter, arrowhead aim at "OFF" position, press [UP] / [DOWN] and select OFF to switch off this function or ON to turn on SCR. Press [MENU] to confirm, then press [EXIT] to return to standby.

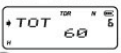
NOTE ⚠

» To ensure effective communications the radio's must be set to the same voice encrypt.

Transmit over timer (TOT) ---- MENU 6

The TOT is designed to prevent your radio to transmit too long. When the transceiver is exceeding the preset time limit it will stop transmitting and give you a warning signal.

This transceiver can be set in 40 steps of 15 seconds, between 15 and 600 seconds.

In standby, press [MENU] + [TOT 6] and the screen will display 

Press [MENU] enter, arrowhead aim at "60" and press [UP] / [DOWN] to select the level you need when on transmit.

Press [MENU] to confirm, then press [EXIT] to return to standby.

Setting VOX (VOX) ---- MENU 7

In standby, press [MENU] + number [VOX 7] and the screen will display 

Press [MENU] enter, arrowhead aim at "OFF" position, press [UP] / [DOWN] to select VOX OFF or to switch on the 1 to 10 different sensitivity-levels. Press [MENU] to confirm, then press [EXIT] to return to standby.

NOTE

» When level is too high the VOX needs more volume to get activated.
» When scan or radio is in using, you can not use VOX function.

Setting wide and narrow bandwidth (WN) ---- MENU 8

In standby, press [MENU] + number [WAN 8] and the screen will display 

Press [MENU] enter, arrowhead aim at "WIDE" position , press [UP] / [DOWN] and you can select WIDE or NARROW bandwidth. Press [MENU] to confirm, then press [EXIT] to return to standby.

Setting auto backlight (ABR) ---- MENU 9

It means that the time of return to radio standby state after receive the signal.

In standby, press [MENU] +number [ABR 9] and the screen will display 

Press [MENU] enter, arrowhead aim at "2" position, press [UP] / [DOWN] key and select 1 to 5 to turn on auto

backlight or when you want to switch OFF backlight. Press [MENU] to confirm, then press [EXIT] to return to standby.

NOTE

» Time of auto backlight of this transceiver has 5 levels of which 1 second difference.

Setting receive CTCSS (R-CTCS) ---- MENU 10

Sometimes may be you only want to hear the calling which comes from the specific individual or group, then you can ignore some(can not hear from others who using the same frequency) calling through CTCSS/DCS. Only when receive the same signal of CTCSS/DCS, the radio will release the mutemode.

In standby, press [MENU] + number [STEP 1] [TDR 0] and the screen will display 

Press [MENU] enter, arrowhead aim at "OFF" position, press [UP] / [DOWN] and select OFF to switch off CTCSS or use one of the tones between 67Hz and 254.1Hz. Press [MENU] and confirm, then press [EXIT] to return to standby.

NOTE

» This transceiver has 50 groups different CTCSS tones, see appendix (1) CTCSS frequency sheet.

Setting receive DCS (R-DCS) ---- MENU 11

In frequencymode, press [MENU] + number [STEP 1] [STEP 1] and the screen will display 

Press [MENU] enter, arrowhead aim at "OFF" position, press [UP] / [DOWN] and select OFF to switch off DCS or one of the steps from D023N to D754I. Press [MENU] to confirm, then press [EXIT] to return to standby.

NOTE

» This transceiver has 105 groups different DCS codes, see appendix (2) DCS frequency sheet. And DxxxN means positive code, DxxxI means negative code. The range of positive code is between D023N and D754N, negative code is between D023I and D754I.

Setting transmit CTCSS (T-CTCS) ---- MENU 12

In standby, press [MENU] + number [STEP 1] [SQL 2] and the screen will display 

Press [MENU] enter, arrowhead aim at "OFF" position, press [UP] / [DOWN] and select OFF to switch off CTCSS or use one of the tones between 67Hz and 254.1Hz. Press [MENU] to confirm, then press [EXIT] to return to standby.

NOTE

» This transceiver has 50 groups different CTCSS tones, see appendix (1) CTCSS frequency sheet.

Setting transmit DCS (T-DCS) ---- MENU 13

In frequencymode, press [MENU] + number [STEP 1] [SAVE 3] and the screen will display 

Press [MENU] enter, arrowhead aim at "OFF" position, press [UP] / [DOWN] and select OFF to switch off DCS or one of the steps from D023N to D754I. Press [MENU] to confirm, then press [EXIT] to return to standby.

NOTE

» This transceiver has 105 groups different DCS codes, see appendix (2) DCS frequency sheet. And DxxxN means positive code, DxxxI means negative code. The range of positive code is between D023N and D754N, negative code is between D023I and D754I.

Setting voiceguide (VOICE) ---- MENU 14

In standby, press [MENU] + number [STEP 1] [TXP 4] and the screen will display 

Press [MENU] enter, arrowhead aim at "ENG", press [UP] / [DOWN] key to either select English or OFF to switch off the voiceguide. Press [MENU] to confirm, then press [EXIT] to return to standby.

NOTE

» If want to turn off all keypad voiceguide should turn off MENU15 and MENU14.

Setting beepprompt function (BEEP) ---- MENU 15

Beepprompt is to tell you if the transceiver is operating well or has a malfunction.

We kindly advice you to switch on this function.

This function will inform you for any possible malfunction.

In standby, press [MENU] + number [STEP 1] [SCR 5] and the screen will display 

Press [MENU] enter, arrowhead aim at "ON" then press [UP] / [DOWN] to switch on the beep or OFF when you want to switch off the beep. Press [MENU] to confirm, then press [EXIT] to return to standby.

NOTE

» When MENU 14 is switched on, the voice guide gets priority.

Setting DTMF sidetone (DTMFST) ---- MENU 16

DTMF sidetone gives you the opportunity to switch on or off the speaker when transmit DTMF.

The transceiver has 4 different options.

KEY: Switch on sidekey when transmitting.

ANI: Switch on the ANI sidetone when transmitting.

BOTH: Sidekey and ANI are both on.

OFF: Turn off all.

In standby, press [MENU] + number [STEP 1] [TOT 6] and the screen will display 

Press [MENU] enter, arrowhead aim at "BOTH" position, press [UP] / [DOWN] and select one function of KEY/ ANI/BOTH/OFF. Press [MENU] to confirm, then press [EXIT] to return to standby.

Setting transmit overtime alarm (TOA) ---- MENU 17

Transmit overtime alarm is the setting to alarm the user that he/she has reached the preset time and a voiceprompt and light will flicker during transmit.

The transceiver can be set from 1 to 10 TOA in steps of 1 second.

In standby, press [MENU] + number [STEP 1] [VOX 7] and the screen will display 

Press [MENU] enter, arrowhead aim at "5" position, press [UP] / [DOWN] to select OFF or to set 1 to 10 for the overtime alarm. Press [MENU] to confirm, then press [EXIT] to return to standby.

Busy channel lockout (BCL) ---- MENU 18

This function is to prevent that interfere others who is on communicating. If the channel you have selected which is using by other radio, at this time press PTT key, you can not transmit.

In frequencymode, press [MENU] + number [STEP 1] [WAN 8] and the screen will display 

Press [MENU] enter, arrowhead aim at "OFF" position, press [UP] / [DOWN] and select between ON or OFF.

Press [MENU] to confirm, then press [EXIT] to return to standby.

Adding channelscan (SC-ADD) ---- MENU 19

This function ensure that whether frequency or channel be added to scan list or not.

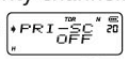
In frequencymode, press [MENU] + number [STEP 1] [ABR 9] and the screen will display 

Press [MENU] enter, arrowhead aim at "ON" position, press [UP] / [DOWN] and select ON or OFF.

Press [MENU] to confirm, then press [EXIT] to return to standby.

Priority scan function (PRI-SC) ---- MENU 20

When the transceiver is in non-priority frequencymode, it still check activity of the priority channel, once there has an action at priority channel, the transceiver will auto work in the priority channel.

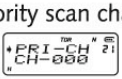
In frequencymode, press [MENU] + number [SQL 2] [TDR 0] and the screen will display 

Press [MENU] enter, arrowhead aim at "OFF" position, press [UP] / [DOWN] to turn on or turn off.

Press [MENU] to confirm, then press [EXIT] to return to standby.

Setting priority channel scan function (PRI-CH) ---- MENU 21

This function means any channel which has been programmed can be set as priority scan channel.

In frequencymode, press [MENU] + number [SQL 2] [STEP 1] and the screen will display 

Press [MENU] enter, arrowhead aim at "CH-000" position, press [UP] / [DOWN] select the desired channel.

Press [MENU] to confirm, then press [EXIT] to return to standby.

NOTE ⚠

- This transceiver priority scan channel from 0 to 199 can selectable.
- There is only dispaly a "S" on LCD screen, that means radio has startup priority channel scan.
- Startup priority channel scan function needs two conditions:
  1. Do priority channel scan switch on. 2. This function scan the channel which has been stored.
- In frequencymode, channelmode or scanning, when transceiver detects a signal, it will transfer the priority channel, after the signal disappeared 3 seconds if you don't do any operation, transceiver will back to frequency and go on priority scan.
- The speed of startup or resume priority scan is relative to the setting backlight. When if the backlight be set as "1", then the speed of startup or resume priority scan will be the fastest.
- When the priority channel which has been set parameter receive signal, if with the same frequency, then radio can transfer the priority channel.
- The transfered priority channel only be used to communcation, you can't do any other operation until radio resumes frequency.

Setting scanmode (SC-REV) ---- MENU 22

This transceiver will stop scanning when detect the frequency(memory channel) of signal.According to the method of restoring that you choose,the transceiver will resume or stop scanning.

The transceiver has three scanmodes.

TO: After signal in channel disappears the transceiver will start scanning if without any operation within 5 seconds.

CO: After the transceiver stopped on a signal it will resume scanning again in 3 seconds when signal disappears.

SE: Scanning will stop when receives a signal.

In standby, press [MENU] + number [SQL 2] [SQL 2] and the screen will display 

Press [MENU] enter, arrowhead aim at "TO" position, press [UP] / [DOWN] and select TO, CO or SE.

Press [MENU] to confirm, then press [EXIT] to return to standby.

Switch on scanning: Press the [T-R SCAN *] via keyboard.

Setting option signal (OPTSIG) ---- MENU 23

In standby, press [MENU] + number [SQL 2] [SAVE 3] and the screen will display 

Press [MENU] enter, arrowhead aim at "WDTS" position, press [UP] / [DOWN] select one kind of WDTS/DTMF /2-TONES/5-TONES, Press [MENU] to confirm, then press [EXIT] to return to standby.

All calls, group calls and selective calls

This transceiver has the functions of transmitting ANI,editing ANI and DTMF decoding, without by other tool, it can accomplish the operation of all calls, group calls and selective calls.

How to program all calls, group calls and selective calls.

1. Program ANI

   This transceiver has 3 kinds of method:

   ①. ANI-XXX

   ②. ANI-XXXX

   ③. ANI-XXXXX

   XXX: Means can program 3 bits ANI ID CODE.

   XXXX: Means can program 4 bits ANI ID CODE.

   XXXXX: Means can program 5 bits ANI ID CODE.

X	XXXX
Grouplist	A unique ANI ID CODE
1 to 9 groups	From 0000 to 9999 maximum

This is how to build up ANI.

Edit method: see to the MENU 48.

NOTE

» Every transceiver in the group needs a unique ANI ID CODE.

2. Setting all calls, group calls and selective calls.

NOTE

» Using any transceiver of group must be set turning on WDTS optional signal.
» Setting WDTS optional signal, the details see to the MENU 23.

3. Setting mutemode must be set as AND,the details see to the MENU (24)
4. Press PTT: Setting time according your need, the details see to the MENU (25)
5. Turn on ringtime alarm and set ringtime (Set when needed); The details see to the MENU (30) and MENU (31)
6. Setting PTT-LT
   In fact, you can choose the time of signal delay before transmit. The details see to the MENU (26)

NOTE

» Every transceiver using in the group must be set the same frequency, channel and parameter.

a. Using All calls

Press PTT to transmitting, after transmitting ANI ID CODE, input T-R SCAN * + #0 directly by keyboard.

b. Using group calls

Press PTT to transmitting, after transmitting ANI ID CODE, input [group number] + T-R SCAN * + #0 directly by keyboard (Using three ID codes as an example).

c. Using selective calls

Press PTT to transmitting, after transmitting ANI ID CODE, input the ANI ID CODE you want to call by keyboard.

NOTE

» This transceiver has ID memory function, after you used all calls, group calls or selective calls, then you want to transmit again, the ID code is the same as last time you transmitted. If you want to transmit new ID code, please press EXIT before transmitting.
» This transceiver has difference of 3,4,5 bit. so all the ANI ID CODE in the group have better set the same bit. When the bit of transmitter is lower than receive's, you can use the T-R SCAN * to make up, then you can go on all calls, group calls or selective calls.

DTMF, 2-TONES, 5-TONES.

1. When DTMF/2-TONES/5-TONES signaling is programmed in a frequency. Press PTT key to transmit DTMF/2-TONES/5-TONES signal.

2. When DTMF/2-TONES/5-TONES is set in a channel , the preset functions will be activated only when the matching DTMF/2-TONES/5-TONES signals are received.

3. Likewise, your signals will be received only by parties using the same DTMF/2-TONES/5-TONES.

4.Setting signal

①Using any one of transceiver must be set DTMF/2-TONES/5-TONES option signal, the details see to the MENU (23).

②Setting sidetone the details see to the MENU (16), according your requirement to select.

③Mutemode should have set as AND, the details see to the MENU (24)

④Setting PTT transmit

Depend on your requirement to select one of the BOT/EOT/BOTH, the details see to the MENU (25)

⑤Setting S-INFO

The receiver's and the transmitter's signaling must be set the same.

⑥Setting PTT-LT

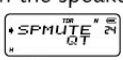
In fact, the signal can delay before transmitted, the details see to the MENU (26)

Setting mutemode (SPMUTE) ---- MENU 24

The mutemode is to turn on/off the speaker audio according to your optional signal setting.

This transceiver has three kinds of mode which can be selected.

1. **QT:** When the transceiver receives a signal and suited CTCSS tone it will switch on the speaker. When transceiver has not be set a CTCSS tone, then receives a signal which can switch on squelch it also can switch on speaker.
2. **AND:** When the transceiver receives a suited QT and DTMF signal it will switch on the speaker.
3. **OR:** When the transceiver receives a suited QT or AND signal it will switch on the speaker.

In frequencymode, press MENU + number SQL 2 TXP 4 and the screen will display 

Press MENU enter, arrowhead aim at "QT" position, press UP / DOWN and select one of QT or AND or OR.

Press MENU to confirm, press EXIT to return to standby.

PTT ID (PTT-ID) ---- MENU 25

PTT ID means that the method of choosing the transmitting ID code.

①**BOT**: when press the PTT key, then radio transmits the ID code immediately.

②**EOT**: when release the PTT key, then radio transmits the ID code immediately.

③**BOTH**: when press or release the PTT key, then radio transmits the ID code immediately.

④**OFF**: The radio can't transmits the ID code when turn off all.

In frequency mode, press [MENU] + number [SQL 2] [SCR 5] and the screen will display 

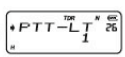
Press [MENU] key enter, arrowhead aim at "OFF" position, press [UP] / [DOWN] select one of BOT/EOT/BOTH /OFF. Press [MENU] to confirm, press [EXIT] to return to standby.

Setting ANI ID CODE transmit (PTT-LT) ---- MENU 26

Setting ANI ID CODE on transmit is needed to send ANI everytime when you press your PTT key.

1-30: Permit transmit ANI delayed time from 1 to 30. Unit: 100ms

0: Do not delay to transmit ANI ID CODE

In standby, press [MENU] + number [SQL 2] [TOT 6] and the screen will display 

Press [MENU] enter, arrowhead aim at "5" position, press [UP] / [DOWN] select 1 to 30 for delay transmit ANI or OFF to switch off ANI delay transmit. Press [MENU] to confirm, then press [EXIT] to return to standby.

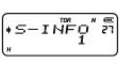
NOTE

» When alarming, if this menu does not be set as "0", but be set one of the number between 1 and 30, then the setting delayed time will be delayed to transmit signalcode and alarmcode.

» When the frequency has set WDTS/DTMF /2-TONES/5-TONES signals, if this menu does not be set as "0", but be set one of the number between 1 and 30, then the setting delayed time will be delayed to transmit signalcode.

Setting signal information (S-INFO) ---- MENU 27

This function means select information code which be used to program signal.

In frequency mode, press [MENU] + number [SQL 2] [VOX 7] and the screen will display 

Press [MENU] enter, arrowhead aim at "1" position, press [UP] / [DOWN] select from 1 to 15.

Press [MENU] to confirm, then press [EXIT] to return to standby.

Emergency calling type (EMC-TP)---MENU 28

This transceiver has 3 kinds function.

1. ALARM: Field alarm
2. ENI: Distant alarm
3. BOTH: Field + distant alarm

In frequency mode, press [MENU] + number [SQL 2] [W&N 8] and the screen will display 

Press [MENU] key enter, arrowhead aim at "ALARM" position, press [UP] / [DOWN] select ALARM/ENI/BOTH

Press [MENU] to confirm, then press [EXIT] to return to standby.

NOTE

» In frequencymode or channelmode, only be set as ENI and BOTH, then can use the alarm channel to alarm.

» In frequencymode or channelmode, if you do not set alarm channel, then it will alarm at the present frequency or channel.

Emergency calling channel (EMC-CH)---MENU 29

Select any channel which have set for emergency calling.

In standby mode, press [MENU] + number [SQL 2] [ABR 9] and the screen will display 

Press [MENU] key enter, arrowhead aim at "CH-000" position, press [UP] / [DOWN] select the desired channel, Press [MENU] confirm, then press [EXIT] to return to standby.

Select ringmode (RING-M)---MENU 30

Setting calling ring means after the transceiver receive the matching signal, it will be announced from the speaker.

This transceiver has 4 kinds ringmode can be selectable.

SOUND:Turn on ring

BIV: Turn on libration

BOTH: Turn on ring and libration

OFF: Turn off all.

In frequencymode, press [MENU] + number [SAVE 3] [TDR 0] and the screen will display 

Press [MENU] key enter, arrowhead aim at "SOUND" position, press [UP] / [DOWN] select one of SOUND/ BIV/BOTH/OFF. Press [MENU] confirm, then press [EXIT] to return to standby.

Setting ringtime(RING-T)---MENU 31

It will switch on the speaker when it is over the preset ring time.

In standby, press [MENU] + number [SAVE 3] [STEP 1] and the screen will display 

Press [MENU] enter, arrowhead aim at "0" position, press [UP] / [DOWN] to select the time of the ring between 0 and 10. Press [MENU] to confirm, then press [EXIT] to return to standby.

NOTE ⚠

» This transceiver has 10 different steps of ringtime of which every step is 1 second difference, this means that 0 will switch off the ring.

Edit channelname (CHNAME) ---- MENU 32

1. Channelname can be made up of 26 letters (A to Z), 10 numbers (0 to 9) or (?) (+) (-), with any of the 3 last symbols.
2. Channelname can have a length of maximum of 6 bits or you can edit one of the bits from 1 to 6.
3. When you select the (-) symbol it means that the bit is blank.

Edit method

1. Via KG-699E software.

2. Via keyboard of transceiver.

Edit Channelname

1. At least one channel should have been stored.

2. The transceiver should be work in channelmode.

3. Enter the channelname edit menu, then press UP / DOWN to select character, press A/B to select edit position.

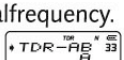
Edit step

1. If the transceiver works in frequencymode, set the workmode as NAME in the display then press MENU and power on again.
If the transceiver works in CH mode, then go through MENU 34 to set display to NAME.

2. Select the desired channel, press MENU + SAVE 3 + SQL 2 + MENU and then the screen will display 6 rails, press UP / DOWN and select character then press A/B, press UP / DOWN again to select the second character, after selecting the sixth character press MENU to confirm, press EXIT to exit.
The screen will display the channelname and show the order of this channel on top right corner.

Setting transmit segment when in dual standby (TDR-AB) ---- MENU 33

The transeiver will transmit on A segment or B segment when switch on the dualfrequency.

In frequencymode, press MENU + number SAVE 3 SAVE 3 and the screen will display 

Press MENU enter, arrowhead aim at "A" position, then press UP / DOWN selected A or B. Press MENU to confirm, then press EXIT to return to standby.

NOTE

» Setting this function you must turn on dualstandby at first.
» When in dualstandby,press PTT to transmit A segment or B segment.

Setting A segment channel display mode (CA-MDF)---MENU 34

This transceiver has three selectable display modes: channelorder display, channelfrequency + channelorder display, channelname + channelorder display.

In standby, press MENU + number SAVE 3 TXP 4 and the screen will display 

1. Channelorder display mode

Press MENU enter, press UP / DOWN select CH and the screen will display 

Press MENU to confirm, then press EXIT to exit.

2. Channelfrequency + Channelorder display mode

Press [MENU] enter, press [UP] / [DOWN] select FREQ and the screen will display 

Press [MENU] to confirm, then press [EXIT] to exit.

3. Channelname + Channelorder display mode

Press [MENU] enter, press [UP] / [DOWN] select NAME and the screen will display 

Press [MENU] to confirm, then press [EXIT] to exit.

Channelname display mode: To operate this function you need to edit the channelname first or it will still display the channelorder. See details of channelname edit in MENU 32.

Setting B segment channel display mode (CB-MDF)---MENU 35

This transceiver has three selectable display modes: Channelorder, channelfrequency + channelorder and channelname + channelorder.

In standby, press [MENU] + number [SAVE 3] [SCR 5] and the screen will display 

1. Channelorder dispay mode

Press [MENU] enter, press [UP] / [DOWN] select CH and the screen will display 

Press [MENU] to confirm, then press [EXIT] to return to standby.

2. Channelfrequency + Channelorder display mode

Press [MENU] enter, press [UP] / [DOWN] selcet FREQ and the screen will display 

Press [MENU] to confirm, then press [EXIT] to return to standby.

3. Channelname + Channelorder display mode

Press [MENU] enter, press [UP] / [DOWN] select NAME and the screen will display 

Press [MENU] to confirm, then press [EXIT] to return to standby.

Channelname display mode: To operate this function you need to edit the channelname first or it will still display the channelorder. See details of channelname edit in MENU 32.

Setting keyboard lock (AUTOLK) ---- MENU36

The transceiver has two options, auto lock and manual lock.

AUTOLK: When you set autolock the keyboard will be locked within 15 seconds.

To release keyboard press [*] for more than 2 seconds.

OFF: Turn off auto lock

In frequencymode, press [MENU] + number [SAVE 3] [TOT 6] and the screen will display 

Press [MENU] enter, arrowhead aim at "OFF" position, press [UP] / [DOWN] and select AUTO for autolock or OFF to switch off autolock. Press [MENU] to confirm, then press [EXIT] to return to standby..

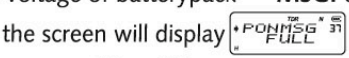
NOTE

» Manual lock: In standby, press [*#] for more than 2 seconds will lock keyboard, release keyboard press [*#] for more than 2 seconds.

Setting power on message (PONMSG) ---- MENU 37

Transceiver power on message:

FULL: Full display **BATT-V:** Display the current voltage of batterypack **MSG:** display "Best Wishes"

In standby, press [MENU] + number [SAVE 3] [VOX 7] and the screen will display 

Press [MENU] enter, arrowhead aim at "FULL" position, press [UP] / [DOWN] and select one of FULL/BATT-V/ MSG, Press [MENU] to confirm, then press [EXIT] to return to standby.

Setting sidekey 1(PF1)---MNEU 38

This transceiver sidekey 1 has 5 kinds function can be selected:

1.FM: FM radio key

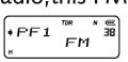
2. CALL: Signal calling at present.

3. NO-SUB: Cancel receive DCS or CTCSS.

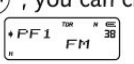
4. JP-PRI: Switch to priority scan channel.

5. JP-EMC: Switch to emergency calling mode.

1. Select FM radio function.

In standby, press the sidekey 1 to switch on FM radio,this FM radio is frequency modulation, frequency range is 87-108MHz, and the screen will display 

a. In FM radio, press [UP] / [DOWN] or number key to select program.

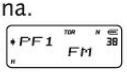
b. Press [EXIT] , you can check the working frequency and channel, after 2 seconds the screen will resume 

, the radio works in normally when you are on operation.

c. Press PTT, sidekey 2 and topkey, it will into the relevant operation.

When you want to turn off radio, press sidekey 1 again.

When you turn on the FM radio, you should install supplied antenna.

In standby, press [MENU] +number [SAVE 3] [W&N 8] and the screen will display 

Press [MENU] enter, arrowhead aim at "FM" position, press [UP] / [DOWN] and select one of the FM/CALL/ NO-SUB/JP-PRI/JP-EMC, press [MENU] to confirm, press [EXIT] to return to standby.

NOTE

» When in FM radio, the present frequency or channel are still in standby, if transceiver receives a signal,it will return to two-way radio, After the signal disappeared 5 seconds, it will auto return to FM radio. If you want

NOTE

to exit FM radio, please press sidedey 1 again.

» You can use the software to edit the channel of FM radio, make the radio can display the frequency and radio's name on LCD screen, after you have succeed in programming, press the sidekey 1 to turn on FM radio, now you not only can use the channel knob to switch channel, but also can use UP / DOWN to switch. If the radio don't have channel knob, you can use UP / DOWN to switch FM radio channel.

Setting topkey (PF2) ---MENU 39

The topkey offers two kinds of function:

EMCALL: Start up alarm function

CALL01-CALL15:Signal calling key

Select EMCALL function

In standby, press MENU + number SAVE 3 ABC 9 and the screen will display 

Press MENU enter, arrowhead aim at "EMCALL", press UP / DOWN and select EMCALL. Press MENU and confirm, then press EXIT to return to standby.

When you have selected EMCALL, in standby press the topkey and from your speaker an alarm will sound and the red and green lamp will flicker at the same time. Press the topkey again to exit.

Signal calling key

In standby, press MENU + number SAVE 3 ABC 9 and the screen will display 

Press MENU enter, arrowhead aim at "EMCALL" position, press UP / DOWN select one of function from CALL01 to CALL15, press MENU to confirm, then press EXIT to return to standby.

NOTE

» CALL01-CALL15: Means the information code which has been set as calling signal, when PF2 has been set as one kind of CALL01-CALL15, then press PF2 one time, meanwhile the LED A and B flicker each other. When the information code of signal has been set as the same as others and other functions are also the same, then press PTT you can communicate each other, also you can communicate when the LED is flickering.

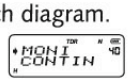
Define MONI key (MONI) ---- MENU 40

This function is defined for squelch diagram.

Total have 2 kinds function can be selected.

CONTIN: Should always press side key 2 all the time to persist turn off squelch diagram.

PRESS: Just need press side key 2 one time to persist turn off squelch diagram.

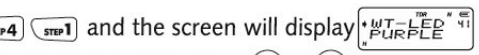
In standby, press MENU + number TXP 4 TDR 0 and the screen display 

Press [MENU] enter, arrowhead aim at "CONTIN" position. Press [UP] / [DOWN] select CONTIN/PRESS
Press [MENU] confirm, then press [EXIT] to return to standby.

Selecting standby display color (WT-LED) ---- MENU 41

The transceiver has four colors available:

BLUE / ORANGE / PURPLE/OFF

In standby, press [MENU] + number [TXP 4] [STEP 1] and the screen will display 

Press [MENU] enter, arrowhead aim at "PURPLE" position, press [UP] / [DOWN] and select the desired color of BLUE / ORANGE / PURPLE/OFF. Press [MENU] to confirm, then press [EXIT] to return to standby.

Selecting receive display color (RX-LED) ---- MENU 42

The transceiver has four colors available:

BLUE / ORANGE / PURPLE/OFF.

In standby, press [MENU] + number [TXP 4] [SQL 2] and the screen will display 

Press [MENU] enter, arrowhead aim at "BLUE" position, press [UP] / [DOWN] and select the desired color of BLUE / ORANGE / PURPLE/OFF. Press [MENU] to confirm, then press [EXIT] to return to standby.

Selecting transmit display color (TX-LED) ---- MENU 43

The transceiver has four colors available:

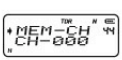
BLUE / ORANGE / PURPLE/OFF

In standby, press [MENU] + number [TXP 4] [SAVE 3] and the screen will display 

Press [MENU] enter, arrowhead aim at "ORANGE" position, press [UP] / [DOWN] and select the desired color of BLUE / ORANGE / PURPLE/OFF. Press [MENU] to confirm, then press [EXIT] to return to standby.

Setting memory channel=setting co-channel and dis-channel (MEM-CH) ---- MENU 44

When transceiver works in frequencymode or in standby, input the frequency and any kind of parameter what you want to store.

Press [MENU] + number [TXP 4] [TXP 4] and the screen will display 

Press [MENU] enter, press [UP] / [DOWN] to select channel order, press [MENU] to store and you will hear a voiceprompt if it is stored.

Press [EXIT] to exit, at this moment the channel should be co-channel frequency channel.

When you need to store dis-channel, repeat the above procedure, after you stored, you will hear a voiceprompt "store transmit".

How to operate

Example:

You want 450.025MHz for receive and 460.025MHz for transmit and stored in CH-20, then act as follows:

1. When the transceiver works in frequency mode, input [TXP 4] [SCR 5] [TDR 0] [TDR 0] [SQL 2] [SCR 5], [MENU] + [TXP 4] [TXP 4] + [MENU], then press [SQL 2] [TDR 0] or [UP] / [DOWN] key select CH-20, press [MENU] key to confirm, voice prompt will tell you it is stored, press [EXIT] to exit;
2. Then input [TXP 4] [TOT 6] [TDR 0] [TDR 0] [SQL 2] [SCR 5] + [MENU] + [TXP 4] + [TXP 4] + [MENU] + [MENU] and voiceprompt will tell you it is stored + press [EXIT] to exit.
3. The dis-channel is stored.

NOTE ⚠

» If you want to set CTCSS, D.C.S, W&N etc functions on parameter please setting before stored. Then it can store with frequency in channel.

» The transmitting only stored transmit frequency, if you want to store MENU function and parameter, please store with the receiving.

» If you want to store by manual, in frequencymode, and the channel should be vacant, then you can go on operation of store receiving and transmitting or you can only go on the operation of storing transmitting. If the channel is not vacant and you want to go on the operation of storing receiving and transmitting, you should delete channel.

Delete channel (DEL-CH) ---- MENU 45

In standby, press [MENU] + number [TXP 4] [SCR 5] and the screen will display 

Press [MENU] enter, press [UP] / [DOWN] to select the channel you want to delete, press [MENU] to confirm.

The select channel and message are deleted, press [EXIT] to return to standby.

Setting frequencyshift direction (SFT-D) ---- MENU 46

Frequencyshift means that:

1. The transmit frequency is higher than receive frequency. This is called positive offset (+)
2. The transmit frequency is lower than receive frequency. This is called negative offset.(-)
3. Turn off frequencyshift.

In standby, press [MENU] + number [TXP 4] [TOT 6] and the screen will display 

Press [MENU] enter, press [UP] / [DOWN] and select one of +/-/OFF. Press [MENU] to confirm, then press [EXIT] to return to standby.

Setting offsetfrequency (OFF-SET) ---- MENU 47

Offsetfrequency is the difference between the transmit and receive frequency. The transceiver offset range can be from 0 to 99.950MHz.

In standby press [MENU] + number [TXP 4] [VOX 7] and the screen will display 

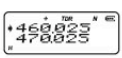
Press [MENU] enter, press number 0 to 9 to select offsetfrequency. Press [MENU] to confirm, then press [EXIT] to return to standby.

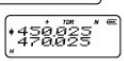
The frequencyshift direction and offsetfrequency can only be programmed when the transceiver works in frequencymode, in order to let transmitting and receiving under different frequency.

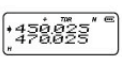
Follow the next steps:

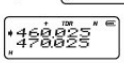
1. Set working frequency.
2. Set frequencyshift direction and offsetfrequency.
   Example: In frequencymode, the transceiver will work on receive frequency 450.025MHz and transmit frequency will be 460.025MHz.
   In frequencymode, order input [TXP 4] [SCR 5] [TDR 0] [TDR 0] [SQL 2] [SCR 5], press [MENU] + [TXP 4] + [TOT 6] + [MENU] and select positive offset (+); press [MENU] + [EXIT], then press [MENU] + [TXP 4] + [VOX 7] + [MENU] + numberkey to select 10.000+ [MENU] + [EXIT] and the frequencyshift direction plus offsetfrequency are complete.

The screen will display 

When press **PTT** key the screen will display 

When you release **PTT** the screen will display 

Now the receiving frequency is 

The transmit frequency is 

ANI CODE edit (ANI) ---- MENU 48

Any transceiver of group must edit different ANI code.

NOTE

» Because this transceiver has different of 3 bits, 4 bits and 5 bits, so the length of ANI CODE must keep the same as which used in group.

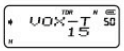
» ANI CODE only can be programmed via KG-699E programming software.

Setting VOX-T (VOXT) ---- MENU 50

The purpose of setting VOX-T is to avoided the problem: When after transmitted, transceiver will return to receivedmode immediately, but you can't ensure whether last part of calling can be transmitted or not, so you can set a proper VOX-T then makes calling can be transmitted exactly.

Be careful, don't set VOX-T to a long time.

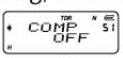
This transceiver total has 20 levels, unit: 100ms

In standby, press [MENU] +number [SCR 5] [TDR 0] and the screen will display 

Press [MENU] enter, arrowhead aim at "5", press [UP] / [DOWN] and select one of level between 1 and 20 or 0 not allow delay transmit, press [MENU] to confirm, then press [EXIT] to return to standby.

Companding (COMP) ---- MENU 51

COMP: Use voice compress technology to reduce the noise when on talking, make the voice clear.

In standby, press [MENU] + number [SCR 5] [STEP 1] and the screen will display 

Press [MENU] enter, arrowhead aim at "OFF" position, press [UP] / [DOWN] to select ON or OFF.

Press [MENU] to confirm, then press [EXIT] to return to standby.

Setting reset (RESET) ---- MENU 52

The transceiver has a menu which resets VFO and ALL messages.

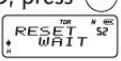
When you use RESET VFO all parameters of menu will return to factory default.

When you use RESET ALL all menu and channel parameters will return to factory default.

1. **MENU reset (VFO):**

   In standby, press [MENU] + number [SCR 5] [SQL 2] and the screen will display 

   Press [MENU] enter, press [UP] / [DOWN] select VFO, press [EXIT] key and the screen will display 

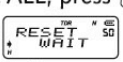
   Press [MENU] again and the screen will display 

   When the reset has worked well the transceiver will auto power off and auto switch on again.

2. **All message reset (ALL):**

   In standby, press [MENU] + number [SCR 5] [SQL 2] the screen will display 

   Press [MENU] enter, press [UP] / [DOWN] and select ALL, press [MENU] and the screen will display 

   Press [MENU] again and the screen will display 

   When reset has worked well, the transceiver will auto power off and auto switch on again.

Setting reverse frequency function

When using reverse frequency function, the transceiver transmit-and receivefreuency will interchange and the setting of CTCSS and/or DCS encode and decode will interchange.

■ ***Operating reverse frequency function:***

In standby, press [T-R SCAN *] and this will turn on reverse frequency function, press [T-R SCAN *] again and this will turn off reverse frequency function.

Lowvoltage batterypack voiceprompt

When the batterypack has lowvoltage, the transceiver will sound "low batterypack"voice prompt.

Setting transmit overtime prompt

When transmitter works longer than preset time, the transceiver will announce "transmit overtime" by voice and stops transmitting. If you want to transmit again, please press **PTT.** (Setting overtime prompt please see MENU 6)

Adding channelscan

Edit method: Strictly via KG-699E programming software.

Only scan according programming list which have added channel scan on programming software.

Wireclone function

Using wireclone	Switch sourceradio on,after you have connected the targetradio to the sourceradio via the cloningcable,push the [MONI] key and the sourceradio starts cloning.	LED is flashing red during cloning. LED goes out in case of successful cloning. LED glows continuous red in case of cloning failure.
	Targetradio	LED is flashing green during cloning. LED will switch OFF when cloning complete.

Programming repeater function

Most repeaters use standard or different splits and/or matching CTCSS/DCS or DTMF signals.

When you need to join a repeater, you need to set different parameters on receive and transmit.

Example: The repeater transmit frequency is 450.025MHz, CTCSS value is 67Hz, the receive frequency is 460.025MHz, CTCSS value is 254.1Hz.

When the transceiver needs to join the repeater, you need to follow the following steps:

1. Set receive frequency, CTCSS value and transmitting CTCSS value and store this on appointed channel, example channel 20. The transceiver in frequencymode, setting receive frequency is 460.025MHz, receiving CTCSS value is 254.1 Hz, transmitting CTCSS vallue is 67Hz, and store to channel 20. The operation is as follows:
   In frequencymode, order input TXP 4 + TOT 6 + TDR 0 + TDR 0 + SQL 2 + SCR 5 , MENU + STEP 1 + TDR 0 + MENU , press UP / DOWN and select CTCSS value 254.1 + MENU + EXIT ; MENU + STEP 1 + SQL 2 + MENU , press UP / DOWN and select CTCSS value 67Hz + MENU + EXIT , MENU + TXP 4 + TXP 4 + MENU + SQL 2 + TDR 0 + MENU voice prompt receive store, press EXIT key.
2. Setting transmitfrequency and store in appoint channel 20. The transceiver in frequencymode, setting transmitfrequency as 450.025MHz, and store in channel 20.

How to operate

In frequencymode, order input TXP4 + SCR5 + TDR0 + TDR0 + SQL2 + SCR5 , MENU + TXP4 + TXP4 + MENU ; SQL2 + TDR0 + MENU . Voiceprompt transmit store, press EXIT key.

3. Press MENU , turn on the power at the same time, the transceiver work in channel mode at this time, press UP / DOWN select channel 20, the transceiver can join repeater.

How to use your intelligentcharger

1. When the poweradapter is connected the intelligentcharger, the poweradapter should be plugged into the matchingvoltage. The intelligentcharger will flicker once, then go into the standby mode which means that you can charge the batterypack; When you plug in the batterypack, the intelligentcharger will switch to red LED which means that it has being charged.
2. When the green light flickers, the batterypack is fully charged.
3. After you plug in the batterypack which the voltage is lower than 6V (it is lower than 6V if you can not power on the transceiver), the red LED flickers which means that the batterypack is being trickle charged by intelligentcharger and this will last about 10 minutes. When the light turns red, it will go into the normal charge.
4. After you plug in the batterypack which the voltage is higher than 6V(it is higher than 6 V if you can power on the transceiver), the red LED flickers, at this time, please confirm whether the batterypack is plugged in right with intelligentcharger.

Trouble shooting

Please check carefully if your transceiver has problems by following this chart.
If you maintain to have trouble you can reset your transceiver and very often this will eliminate your problem.

Problem	Possible Cause	Possible Solution
Transceiver will not switch on.	1. The batterypack is not adjust properly. 2. The batterypack maybe exhausted. 3. The batterypack is getting too old.	1. Re-install the batterypack. 2. Charge the batterypack. 3. Change the batterypack.
The receiverlight is on and there is no sound from the speaker.	1. The powerswitch is not adjusted well. 2. Confirm if your CTCSS/DCS or DTMF tone is the same as others. 3. Confirm if you use the right mutemode.	1. Turn the volumecontrol. 2. Reset the CTCSS/DCS. 3. Reset the mutemode.
There is no reception	1. Check if you have installed your antenna right. 2. The signal you are receiving is very weak.	1. Install the supplied antenna. 2. Move the radio around till you receive the desired signal or press DOWN to reset and press UP again to go to the right channel.

Trouble shooting

Problem	Possible Cause	Possible Solution
Keyboard and PTT switch do not work.	1. The keyboard is locked. 2. RADIO "mode" is switched on, see displayFM.	1. Set keyboard to free. 2. Please exit RADIO mode.
The receivelight is on and you can not transmit.	If you have set transceiver to busychannel lockout.	Switch off busychannel lockout.
You can not store certain settings.	In channel mode or frequency+channel mode you cannot set parameters.	Set transceiver to frequency mode.
Autotransmit when you are in standby.	The VOX level is set too LOW.	Switch off VOX or set VOX to a HIGHER level.
During communication you receive other group(s) or receive distorted signal.	The frequency and the CTCSS/DCS are the same as other users.	Change the setting of CTCSS/ DCS,frequency or channel.

Technology parameter

Appendix 1

CTCSS

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

Appendix 2

DCS

1	D023N	16	D074N	31	D165N	46	D261N	61	D356N
2	D025N	17	D114N	32	D172N	47	D263N	62	D364N
3	D026N	18	D115N	33	D174N	48	D265N	63	D365N
4	D031N	19	D116N	34	D205N	49	D266N	64	D371N
5	D032N	20	D122N	35	D212N	50	D271N	65	D411N
6	D036N	21	D125N	36	D223N	51	D274N	66	D412N
7	D043N	22	D131N	37	D225N	52	D306N	67	D413N
8	D047N	23	D132N	38	D226N	53	D311N	68	D423N
9	D051N	24	D134N	39	D243N	54	D315N	69	D431N
10	D053N	25	D143N	40	D244N	55	D325N	70	D432N
11	D054N	26	D145N	41	D245N	56	D331N	71	D445N
12	D065N	27	D152N	42	D246N	57	D332N	72	D446N
13	D071N	28	D155N	43	D251N	58	D343N	73	D452N
14	D072N	29	D156N	44	D252N	59	D346N	74	D454N
15	D073N	30	D162N	45	D255N	60	D351N	75	D455N

DCS

76	D462N	82	D516N	88	D606N	94	D645N	100	D723N
77	D464N	83	D523N	89	D612N	95	D654N	101	D731N
78	D465N	84	D526N	90	D624N	96	D662N	102	D732N
79	D466N	85	D532N	91	D627N	97	D664N	103	D734N
80	D503N	86	D546N	92	D631N	98	D703N	104	D743N
81	D506N	87	D565N	93	D632N	99	D712N	105	D754N

Technology specification

Frequencyrange	VHF: 66-88MHz
	VHF: 136-174MHz VHF: 245-246MHz
	UHF: 300-350MHz UHF: 350-390MHz
	UHF: 400-470.9875 MHz UHF: 450-520MHz
Memorychannels	200 channels
Voltage	7.4V DC
Working temperature	-30℃(-22F) to +60℃(140F)
Channels	Co-channel or Dis-channel simplex
Poweroutput	VHF: 5W / UHF:4W
Mode	F3E(FM)
Maximum deviation	⩽ ±5KHz
Adjacent channel power	< -60dB
Stability	±5 ppm
Sensitivity	< 0.2 μV
Audio output power	⩾700mW
Weight	250g
Size	62 X 105 X 39 (mm) 2.44x4.13x1.54(inch)

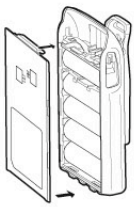
NOTE ⚠

» Specifications are subject to change without notice.

Optional accessories

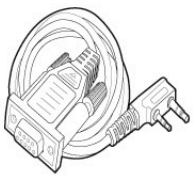
wouxun Professional FM Transceiver

Dual slot charger

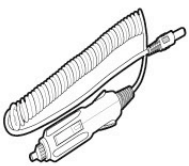


"AA" batterypack

Eliminator



Programmingcable



Carcharger

Wireclonecable

Headset

Speaker/MIC

Switching adapter

1700mAh Li-ion batterypack

Programming Software

Announce

Gwouxun endeavors to achieve the accuracy and completeness of this manual,but is not liable for any possible omission and printing errors.All the above specifications are subject to change by Gwouxun without prior notice.

English Version:699E-A-0807-V1