Thanks for buying the **Swouxun** transceiver. This transceiver offers latest design, multi functions, stable performance and easy operation. We believe you will be pleased with the high quality and powerful functions.

NOTE 🛆

- >> Please do not use the transceiver in explosive environment.
- >> Please turn off the transceiver when refueling or parking at gas station.

READ THIS IMPORTANT INFORMATION ON THE SAFE AND EFFICIENT OPERATION BEFORE USING **EXECUTION** PORTABLE TRANSCEIVER. This manual is ONLY suitable for KG-816.

PRECAUTIONS



This transceiver is with excellent design and advanced technology. Please follow the below suggestions and warning to assist you to carry out the responsibilities on warranty terms, and learn the safety before using the transceiver.

- 1. Please keep the transceiver and accessories out of the reach of children.
- 2. Do not disassemble the transceiver to avoid the possibility of damaging by a non-professional.
- 3. Please ONLY use **Guouxun** supplied batterypack and charger to avoid the possibility of damaging the transceiver.
- 4. Please ONLY use **Twouxun** supplied antenna to avoid the possibility of damaging the transceiver.
- 5. Neither expose the transceiver directly to the sunlight nor in the overheated places for a long time.
- 6. Keep the transceiver away from the dusty or humid places.
- 7. Clean the transceiver with a mild brush/cloth or detergents instead of the aggressive chemical material.
- 8. Do not transmit before well installing the antenna.
- 9. If any abnormal odor or smoke is detected from the transceiver, please power it off immediately, then remove the batterpack from the transceiver. And contact your **@wouxun** dealer.

PRECAUTIONS

NOTE **△**

- **>>** All the above mentioned suggestions and warnings are compatible for all **Swouxun** series transceivers and accessories. Please contact your **Swouxun** dealer about any upset operation.
- **>> Twouxun** manufacturer is not responsible for any safety or operation problems, which are caused by using the incompatible accessories or parts.

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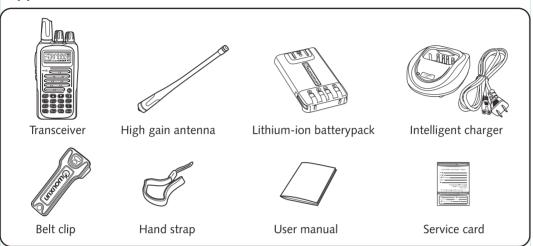
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Unpacking and checking of your equipment

Carefully unpack the transceiver. We suggest you that identify the items on the following table before discarding the packing material. If any items are missing or have been damaged during transportation, please notify your **GWOUXUN** dealer.

Supplied accessories



01

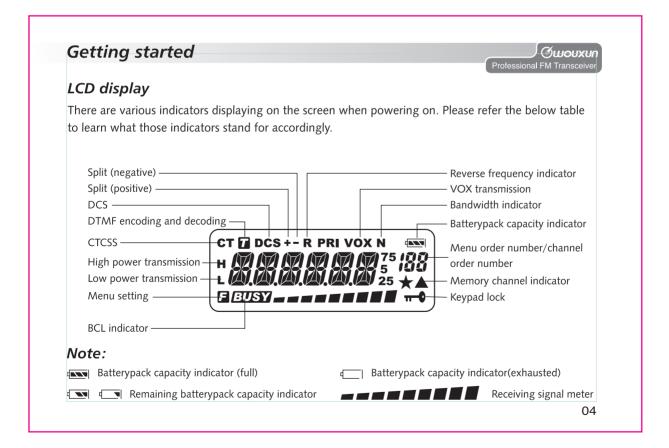
Description of functions

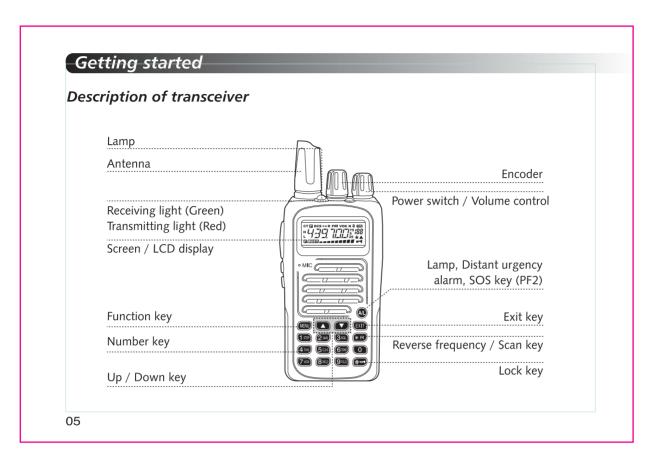


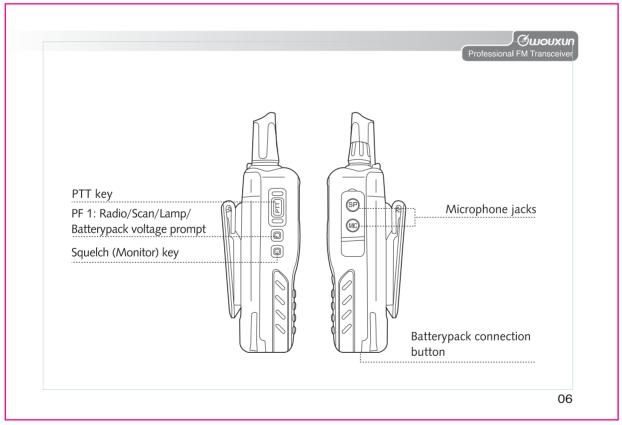
- 1. VHF: 136~174MHz
- Output power: VHF: 1W
 199 memory channels
- 4. DTMF encoding and decoding
- 5. ANI ID caller
- 6. VOX
- 7. All calls, group calls and selective calls function
- 8. Calling ring function
- 9. Stopwatch function
- 10. 105 groups DCS/50 groups CTCSS
- 11. Voice guide (English/Chinese)
- 12. Wide/Narrow bandwidth selection (25KHz/12.5KHz)
- 13. Auto backlight
- 14. Various display modes: channel number, channel frequency&channel name
- 15. Reverse frequency function
- 16. Distant urgency alarm, SOS function
- 17. Multi scan
- 18. Priority scan function

Description of functions

- 19. Inspection, monitor, stun, kill and emergency
- 20. Digital FM radio
- 21. Step frequency selection (5/6.25/10/12.5/25/50/100KHz)
- 22. High/Low power selectable
- 23. High capacity lithium-ion batterypack
- 24. Intelligent charger
- 25. Offset frequency setting (0.05-69.950MHz)
- 26. Setting frequency shift direction
- 27. Busy channel lockout
- 28. Multi power-on display modes (full screen / Batt-V / others)
- 29. Low voltage voice prompt
- 30. Transmit overtime prompt
- 31. Keypad lock (auto / manual)
- 32. Adding scan channel function
- 33. High/Low power changeable when transmitting
- 34. Programmable by computer
- 35. Wireclone function
- 36. Menu / channel reset
- 37. IP55 waterproof







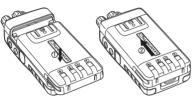
Getting started

■ Install/remove batterypack

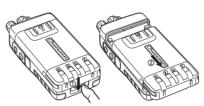
The batterypack is not fully charged before leaving factory. Please charge it before use.

NOTE <u>∧</u>

- » Do not shortcircuit the terminals or put the batterypack into fire.
- >> Do not try to remove the case from the batterypack.
- 1. Please aim the batterypack at the back of the transceiver, and then push up and press down the batterypack to lock the release latch. (PIC1)
- 2. If you want to remove the batterypack, push down the release latch and remove up the batterypack from the transceiver. (PIC2)



PIC1



PIC2

07



■ Speed search

During the setting process, press once or to search functions and parameters. Holding on or can activate the speed search.

DTMF encoding

This transceiver is with DTMF encoding function. Please press number keys or function keys directly. The corresponding DTMF code will be transmitted. Number keypad and DTMF encoding are homologous as following:

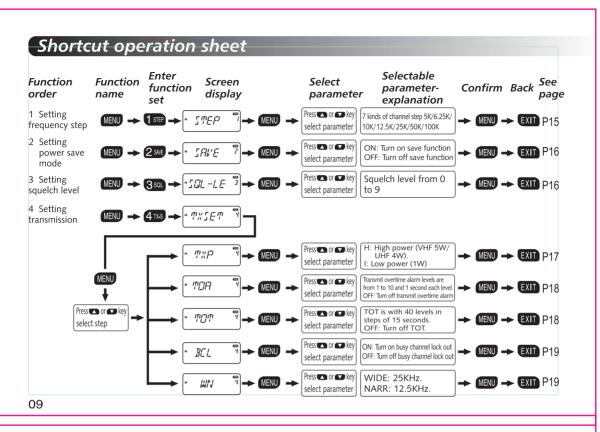
0			
MENU			EXIT
1 STEP	2 SAVE	3 sql	* R
4 TX-S	5 c.p.s	6 TONE	0
7 vox	8 RXC.D	9 TXC.G	#==

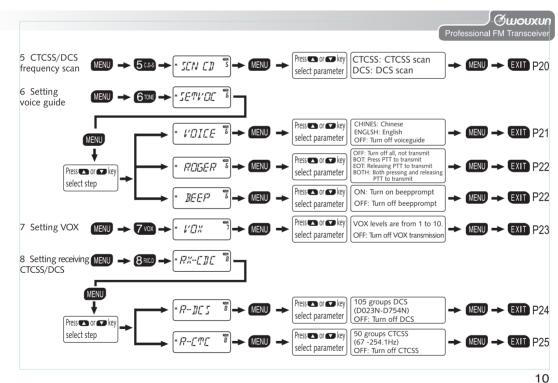
A B C D
1 2 3 *
4 5 6 0
7 8 9 #

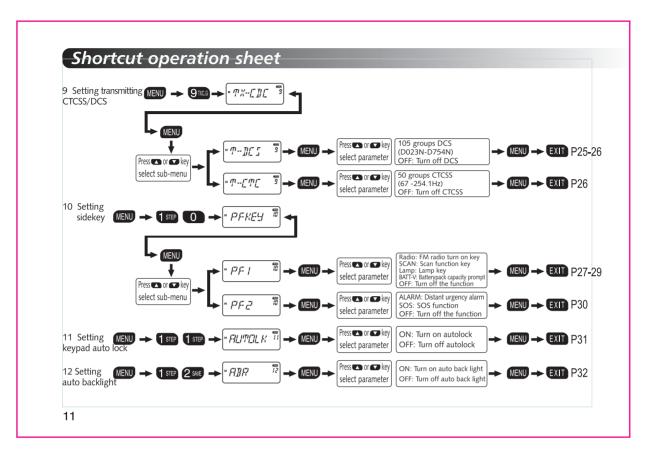
Switch work mode

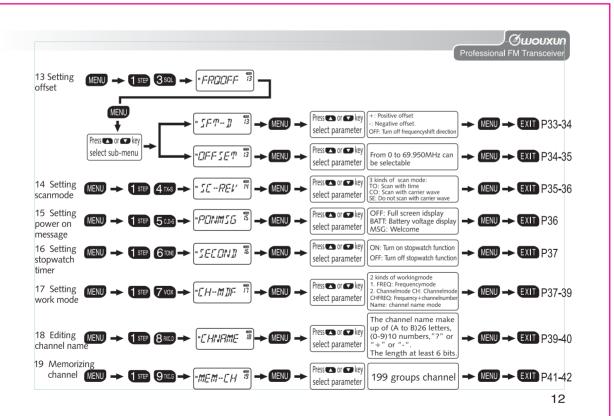
■ Transmit 1750Hz tone

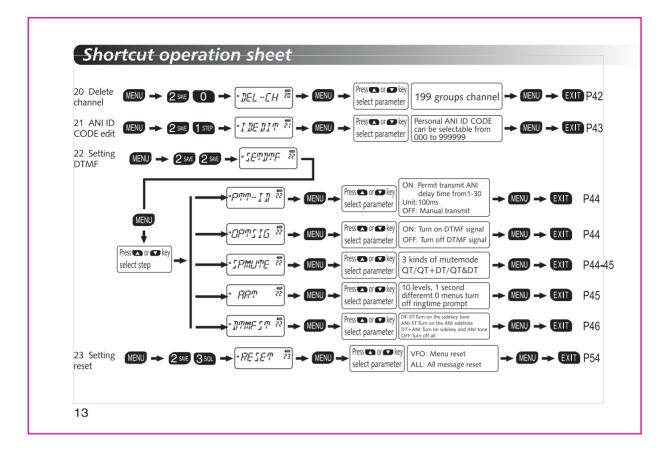
Press PTT and PF1 at the same time to transmit 1750Hz tone.













- Speed search ▲ / ✔ (See page 8)
- High/Low power changeable when transmitting (See page 17)
- All calls, group calls and selective calls (See page 47-49)
- Inspection, monitor, stun, kill and emergency (See page 50-53)
- Priority scan function (See page 55)
- Low voltage voice prompt (See page 56)

- Setting reverse frequency function (See page 55)
- Adding channel scan function (See page 56)
- Wireclone function(See page 56)
- Setting transmit overtime prompt (See page 57)
- Work with repeater (See page 57-58)

Menu lock function

If you do not need to operate menu frequently, you can turn it off via programming software: The steps as following:

- 1. Set password of switching between channel mode and frequency mode.
- 2. Set work mode as channel mode.
- 3. Turn off menu in channel mode.

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

In standby, press (+ 1 sip) and the screen will display [5TEP]

Press MENU enter, and then press / To select the desired step. Press MENU to confirm, and then press EXII to return to standby.

There are seven options for you: 5 KHz, 6.25 KHz, 12.5 KHz, 25KHz, 50KHz and 100KHz steps.

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Setting power save mode (SAVE)----MENU 2

This function is to turn off the receiver circuit for a while, and then turn on again to detect signals.

Without receiving or transmitting, this function will help batterypack reduce consumption. In standby, press (MENU) + (288) and the screen will display (* 581/E).

Press MENU enter and press or to select ON or OFF.

Press NEW to confirm, and press EXII to return to standby.

Setting squelch level (SQL-LE) --- MENU 3

This function is to turn on the squelch when the signal is strong while turn off the squelch when the signal is weak. When squelch opens and the signalings are the same, the speaker will sound. Higher squelch level may cause uneffective receiving when the signal is weak; Lower squelch level may cause interruptions from noise or the unrelated signals.

NOTE 🔨

>> The squelch level options are from 0 to 9. Level 0 means closing the squelch. Level 0-9 makes different levels of noise reduction.

In standby, press MENU + 3501 and the screen will display SIL-LE 3

Press MENU enter and select the desired squelch level, and then press MENU to confirm, press Teturn to standby.

Setting transmission (TXSET)--- MENU 4

There are 5 options as followings:

TXP: Selecting transmit power

TOA: Setting transmit overtime alarm

TOT: Transmit overtimer **BCL:** Busy channel lock out

W/N: Setting wide or narrow bandwidth

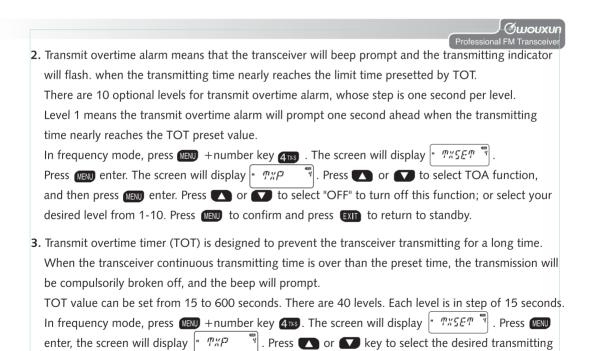
1. TXP function is to change transmitting output power.

NOTE /

- >> (1) Shortcut power conversion: High/Low power can be converted during transmission. Hold on PTT key and press (1) at the same time to convert high/low power.
- >> (2) Shortcut power conversion is temperary. When powering on the transceiver again, the value will be resumed

In frequency mode, press IN + number key IN : The screen will display TXP . The screen will display and press IN enter. The screen will display to select HIGH/LOW power. And then press IN to confirm and press IN to return to standby.

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level. Press (LEVI) to confirm and press (EXI) to return to standby.

4. Transmit overtime timer (TOT) can prevent the transceiver from interferring the other communicating transceivers. If the selected channel is occupied by the other transceivers, the transceiver can not be transmitted even though you press PTT key.

In frequency mode, press IND + number key 1. The screen will display TXSET .

Press IND enter. The screen will display TXP TY. Press A or key to select BCL. Press

NEW enter and press A or to select "ON" or "OFF", and then press IND to confirm and press

EXII to return to standby.

5. Wide/Narrow bandwidth selection can change the bandwidth while the transceiver works.

In frequency mode, press New + number key 1 and the screen will display | TXF | y |, press or | and select W/N function.

Press New enter, and the screen will display | TXF | y |, press or | and select W/N function.

Press New enter, press | or | to select WIDE or NARR bandwidth, press | to confirm and press | to standby.

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CTCSS/DCS frequency scan (SCN CD) ---- MENU 5

The function will scan all CTCSS and DCS frequency in order to confirm if the transmitting party transmits CTCSS/DCS frequencies. If the CTCSS/DCS of your transceiver is not matched with the other transceivers' in the same group, you can use this function to confirm CTCSS/DCS frequencies.

When the transceiver is in receiving status, press + number key 5 and the screen will display FIN [] . Press NEW enter, press or to select CTCSS/DCS, then press to confirm. CTCSS/DCS frequency scan starts.

NOTE <u>∧</u>

- >> The function is not available in channel mode.
- >> The transceiver is unable to start the function for scanning without detecting signals.
- >>> Press Or To turn around the encoder switch to reverse the scan direction.
- >> The transceiver will display the detected CTCSS/DCS during the scanning. At this moment, press to replace the transceiver's pre-set CTCSS/DCS temporarily. Or you can store this detected CTCSS/DCS frequency permanently via MENU 8 and MENU 9 setting. Otherwise this temporary CTCSS/DCS frequency will be resumed to the original setting after resetting.

Setting voice guide (SETVOC)--- MENU 6

This menu is for the below function settings:

VOICE: Setting voice guide

ROGER: Begin/End transmission prompt.

BEEP: Setting beep prompt.

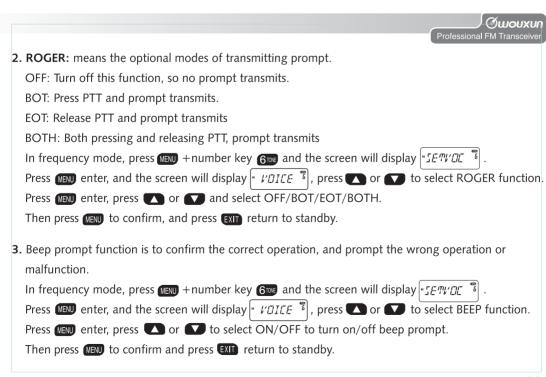
1. There are 2 options for voice guide: English&Chinese. CHINES means Chinese voice guide, while ENGLSH means English voice guide.

In frequency mode, press + number key 6 and the screen will display 5 million and the screen will display

Press Press

NOTE /\

>> If you want to turn off all keypad prompt, you also need to turn off voice guide and beep prompt functions.



Setting VOX (VOX)----MENU 7

When detecting the availability of voice, the transceiver will automatically switch over to transmitting mode. Since VOX circuit should detect the availability of voice firstly, you may note the transmission will be a little delayed. And the first beginning of voice information may not be transmitted.

In standby, press + number key \(\frac{700}{2}\) and the screen will display \(\frac{1}{2}\) \(\frac{7}{2}\).

Press enter, press or and select OFF to turn off this function, while select from level 1 to 10 to turn on this function. Press to confirm and press to return to standby.

NOTE \land

>> Higher level, greater volume is required to open VOX.

 $\ensuremath{\gg}$ When the transceiver is in scanning or FM radio mode, VOX function is not workable.

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Setting receiving CTCSS/DCS (RX-CDC)--- MENU 8

Sometimes perhaps you only want to hear the calling from the specific person or group. At this moment, you can ignore the unnecessary callings from the same frequency via CTCSS/DCS function. Only when receiving the same CTCSS/DCS signals, the transceiver will be relieved from mute.

There are 2 options:

R-DCS: Setting receiving DCS **R-CTC:** Setting receiving CTCSS

1. In frequency mode, press MEND + number key 8 and the screen will display \[\frac{1.77.75}{2.78} \].

Press enter, and the screen will display R-MCS, press or to select R-DCS function.

Press enter, press or to select OFF to turn off DCS, while select one DCS value from

D023N to D7541. Press Level to confirm and press Lin return to standby.

NOTE \land

>> This transceiver is with 105 groups DCS. Please see the appendix(2)D.C.S code sheet. DXXXN (from D023N to D754N) means positive code while DXXXI (from D023I to D754I) means negative code.