Thanks for buying the Wouxun transceiver.

This transceiver offers latest design, enhanced features, solid performances and easy accessibility. We believe you will be pleased with the high quality and reliable features for all your communication needs.

READ THIS IMPORTANT INFORMATION ON THE SAFE AND EFFICIENT OPERATION BEFORE USING Wouxun PORTABLE TRANSCEIVER.
User Safety, Training, and General Information

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

Compliance with RF Energy Exposure Standards

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

- 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 keep the antenna far 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 parking in gasoline service stations.
➢ If you require this machine to be developed or get some changes, pleased contact 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, it may cause harmful interference to radio communication. However, there is no guarantee that interference will not occur in a particular installation. If this equipment
does cause harmful 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 a 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 heat source.
Do not place the radio in excessively dusty, humid areas, nor place close to heating appliances.
Safety: It is important that the operator is aware of and understands hazards common to the operation of any radio.

This device complies with Part 15 of the FCC Rules.
Operation is subject to the following two conditions:
(1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

Warning
MODIFICATION OF THIS DEVICE TO RECEIVE CELLULAR RADIO TELEPHONE SERVICE SIGNALS IS PROHIBITED UNDER FCC RULES AND FEDERAL LAW.
CE Caution:
Hereby, Wouxun declares that this Two-way radio is in compliance with the essential requirements and other relevant provisions of RED Directive 2014/53/EU.
A copy of the DOC may be obtained through the following address.
Address: #38 Yuanbai 1st Road, Jiangnan High Technology Industry Park, Licheng District, Quanzhou 362000, Fujian, China

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Installing before use

- Install / remove batterypack
  The batterypack is not fully charged before leaving factory. Please charge it before use.

**NOTE**
- 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 the batterypack will be released from the transceiver. (PIC2)
Getting Started

Description of Features

1. Twin Band Simultaneous Receiving (U-U, U-V, V-U, V-V)
2. Separate Bands Duplex (U-V, U-V)
3. DTMF Encoding/Decoding
4. All Calls, Group Calls and Selective Calls
5. Stun, Kill, Monitor and Inspection
6. CTCSS/DCS Scan
7. Programmable Non-Standard CTCSS/DCS
8. Multi Scan Modes: Programmable Scanned Frequency Range (only available in Frequency Mode);
   Channel Groups Scan (only available in Channel Mode)
9. VOX
10. Multi Functions Programmable for Side Keys, Programmable Transmission Function on Sub-Frequency
    (Side Key Function Programmable)
11. English Voice Guide
12. Priority Scan, Priority Channel Setting
13. Twin Band Simultaneous Scan
14. Multi Power Save Modes
15. Auto Power-Off Timer (APO)
16. Multi Single-Tone Pulse
   (1750Hz, 2100Hz, 1000Hz, 1450Hz)
17. Multi Keypad Lock Modes
18. PTT ID
19. Wide/Narrow Bandwidth Selection
20. Backlight Brightness Selection
21. Cross-Band Repeat function
Specifications

<table>
<thead>
<tr>
<th>Integration</th>
<th>Receiving</th>
<th>Wide bandwidth</th>
<th>Narrow bandwidth</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Adjacent Channel Selectivity</td>
<td>$\leq 70$dB</td>
<td>$\leq 60$dB</td>
</tr>
<tr>
<td></td>
<td>Inter Modulation</td>
<td>$\leq 65$dB</td>
<td>$\leq 65$dB</td>
</tr>
<tr>
<td></td>
<td>Spurious Response</td>
<td>$\leq 70$dB</td>
<td>$\leq 70$dB</td>
</tr>
<tr>
<td></td>
<td>Audio Response</td>
<td>$-1.3$dB (0.3—3 KHz)</td>
<td>$-1.3$dB (0.3—3 KHz)</td>
</tr>
<tr>
<td></td>
<td>Audio Response</td>
<td>$-1.3$dB (0.3—3KHz)</td>
<td>$-2.5$KHz</td>
</tr>
<tr>
<td>Channel Number</td>
<td>999</td>
<td>Signal to Noise Ratio</td>
<td>$\geq 45$dB</td>
</tr>
<tr>
<td>Work Mode</td>
<td>72D / F3E</td>
<td>Audio Distortion</td>
<td>$\leq 5$%</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>$-20$°C to $40$°C</td>
<td>Audio Power</td>
<td>Transmitter $\leq 500$W</td>
</tr>
<tr>
<td>Antenna Resistance</td>
<td>50Ω</td>
<td>Voltage</td>
<td>7.4VDC</td>
</tr>
<tr>
<td>Weight</td>
<td>495g</td>
<td>Sensitivity</td>
<td>108—136MHz: $\leq 10$Ω / 50Ω</td>
</tr>
<tr>
<td>Size</td>
<td>124.6 x 61.4 x 33.8 mm (mm)</td>
<td></td>
<td>106—136MHz: $\leq 10$Ω / 50Ω</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>136—180MHz: $\leq 10$Ω / 50Ω</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>400—920MHz: $\leq 10$Ω / 50Ω</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>118—136MHz: $\leq 10$Ω / 50Ω</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>70—98MHz: $\leq 10$Ω / 50Ω</td>
</tr>
</tbody>
</table>

Transmitter | Wide bandwidth | Narrow bandwidth | Transmitter | Wide bandwidth | Narrow bandwidth |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of Modulation</td>
<td>16K F3E</td>
<td>11K F3E</td>
<td>Max Frequency Deviation</td>
<td>$\pm$ 5KHz</td>
<td>$\pm$ 2.5KHz</td>
</tr>
<tr>
<td>Adjacent Channel Power</td>
<td>$&gt; 70$dB</td>
<td>$&gt; 65$dB</td>
<td>Frequency Stability</td>
<td>$\leq 2.5$KHz</td>
<td></td>
</tr>
<tr>
<td>Spurious</td>
<td>$&gt; 65$dB</td>
<td>$&gt; 65$dB</td>
<td>Audio Response</td>
<td>$\leq -1.3$dB (0.3—3KHz)</td>
<td></td>
</tr>
<tr>
<td>Audio Response</td>
<td>$\leq -1.3$dB (0.3—3KHz)</td>
<td>$\leq -2.5$KHz</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: 2.5K step is only available on version.

Description of Transceiver

LCD Screen

There are various indicators display on the screen when powering on. Please refer to the below table to learn what the indicators stand for accordingly.

Function Display
- Personal Message or FM Radio Frequency Display
- Channel No. on A area, or Frequency Display
- Channel No. on B area, or Frequency Display

Operation Indication
- R : Reverse Frequency
- : Current Channel is Priority
- Δ : Main Frequency
- : Current Channel NO.
- : Secondary Frequency
- : AM Modulation
- : AAM Modulation
- : Output Power Level
- : Output Power or Receiving Signal Meter Indicator

TTY : Talk Around
DT : CTSS Activated
VOX : VOX
DCS : DCS Activated
DB : DTMF Encoding/Decoding
PLL : Narrow Bandwidth
AM : Wide Bandwidth
PM : AM Modulation
PR : Positive Offset
AN : Negative Frequency
MW : Mute Function Activated

Getting Started

Lamp
Antenna
Channel Knob
Power on/Volume Switch
TX LED(RED)
RX LED(GREEN)

LCD Screen
Press Single/Dual Display Mode Switch
Hold on: VFR/MR Mode Switch
MENU Key
EXIT Key
Number Key
Lock Key

A/B Key
MIC
Reverse Frequency/Scan Key
Up/Down Key
Band Switch Key/Talk Around

Sidekey PF1: No Function, Selective Calls, Distant Alarm SOS, TX on Sub-frequency
PTT Key

Sidekey PF2:
Short Press:
Enter/Exit FM Radio
Hold On (for 1s)
Scan/Stopwatch/Lamp/
Frequency Shift/Frequency
Direction/Keypad Light

Sidekey PF3:
Short Press:
Squelch (MONI Key)
Hold On:
No Function, Selective Calls, Distant Alarm SOS, TX on Sub-Frequency

Earphone Jacket
Basic Operation

(1) Main Frequency Switch
Press [ ] to select the main frequency. The frequency with [ ] at the left top corner of the screen is the main frequency; the frequency without [ ] is the sub-frequency.

(2) Sub-Frequency Transmission Key
PTT key is for transmission on main frequency. If you want to transmit on sub-frequency, please change main frequency or program PF1 or PF3 as sub-frequency transmission.
When programming PF1 or PF3 as sub-transmission function, please press PF1 or PF3 directly to transmit without changing the main frequency.
- **Program PF1 as sub-frequency transmission**
  Program PF1 via MENU49 as sub-frequency transmission function when holding on.
- **Program PF3 as sub-frequency transmission**
  Program PF3 via MENU51 as sub-frequency transmission function when holding on.

(3) Speed Search
Press UP/DOWN key to select your desired function or parameter.

(4) [ ] key
In FM radio mode, press [ ] to program FM radio frequency. Hold on [ ] for 1 second to lock or unlock the keypad.

(5) [ ] key
Press [ ] to activate or turn off the reverse function. Hold on [ ] for 2 seconds to activate the scan function.

(6) RPT key
In standby, press RPT key to switch the main frequency. Hold on RPT key to activate talk around function.

(7) [ ] key
Functions for pressing [ ] key: Single Band/Dual Band Display Switch.
Press [ ] key each time, the sub frequency will be turned off or on to carry Single Band/Dual Band display switch.
Functions for holding on [ ] key: Work Mode (VFO/MR) Switch Switch Work Modes (VFO/MR) is as followings:
Basic Operation

VFO → MR(Channel NO. Display) → MR(Channel Frequency) → MR(Channel Name) + Channel NO. Display

If setting work mode switch password, press [ ], the LCD screen displays [--------]. Please set work mode switch passwords via [WOUXUN] supplied programming software. When the work mode switch pass words are made up of full '0', you do not need to input password when switching work mode.

(8) DTMF Encoding

In transmission, directly press the number keys or function keys to transmit the corresponding DTMF codes. The keys and the DTMF encoding codes are corresponding as following:

<p>| | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td></td>
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<td></td>
</tr>
</tbody>
</table>

(9) Wireclone Function

Purpose: Cloning all parameters (including channel parameters) of the source transceiver to the target transceiver.

Steps: a. Taking two transceivers, one is as the source transceiver, the other one is as the target transceiver.

b. Using wireclone cable to connect the source transceiver (Power-Off Mode) and the target transceiver (Power-On Mode).

c. Holding on PF3 to power on the transceiver simultaneously.

Status: Red LED of the source transceiver flashes, the LCD screen displays "M: COPY COMM"; red LED of the target transceiver flashes, the LCD screen displays "S: COPYING". After successfully wire cloning, the LCD screens of the source and target transceivers display "COPY END"; and then the transceiver restart automatically. If the clone is failed, the source transceiver display "COPY FAIL". And then the transceivers restart automatically without notice.

(10) How to use the intelligent charger

When the battery power is low, the transceiver will activate voice guide, and prompt "DI" in every 5 seconds.

1. Insert the AC plug into outlet (AC: 90-240V), the charger indicator flashes once. That means the
**Basic Operation**

charging is in standby.
2. Insert the battery into the charger, the RED indicator continuously flashes. That means the charging is on the progress.
While the GREEN indicator continuously flashes. That means the charging is completed.

**NOTE**

- When inserting the exhausted battery into the charger, it will pre-charge the battery in trickling mode, the RED light of charger flashes and lasts 10-20 minutes, then start normal charger with RED light keeping on, it will turn to GREEN when it is fully charged.
- Trickling charge the exhausted battery is to protect the lithium-ion battery.

---

**Shortcut Operation Sheet**

<table>
<thead>
<tr>
<th>Function order</th>
<th>Function name</th>
<th>Enter function set</th>
<th>Screen display</th>
<th>Select parameter</th>
<th>Selectable parameter explanation</th>
<th>Confirm</th>
<th>Return to standby</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Auto Backlight Time (ABRT)</td>
<td>1/C</td>
<td>1/C</td>
<td>Press P1/My Select parameter</td>
<td>AUTOYS ON/OFF: 7-30S</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>2</td>
<td>Power Save Mode (SAVE)</td>
<td>2/C</td>
<td>2/C</td>
<td>Press P1/My Select parameter</td>
<td>OFF:01-04</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>3</td>
<td>Step Frequency (STEP)</td>
<td>3/C</td>
<td>3/C</td>
<td>Press P1/My Select parameter</td>
<td></td>
<td>YES</td>
<td>YES</td>
</tr>
</tbody>
</table>
| 4              | Bandwidth Selection (W/N) | 4/C                                | 4/C                        | Press P1/My Select parameter | WOX: 25kHz  
NAR: 12.5kHz                        | YES     | YES              |
| 5              | Transmitting Power Selection (TXP) | 5/C                                | 5/C                        | Press P1/My Select parameter |                                | YES     | YES              |
| 6              | Frequency Shift Direction (SFT-D) | 6/C                                | 6/C                        | Press P1/My Select parameter |                                    | YES     | YES              |
| 7              | VOX (VOX)                | 7/C                                | 7/C                        | Press P1/My Select parameter | VOX has levels from 1 to 10  
OFF: Turn off VOX transmission                        | YES     | YES              |
| 8              | Squelch Level (SQL-L6)   | 8/C                                | 8/C                        | Press P1/My Select parameter | Squelch level from 0 to 9              | YES     | YES              |
Shortcut Operation Sheet

9 Begin/End Transmitting Prompt (ROGER)

10 Time-out Timer

11 Transmitting Overtime Alarm

12 Voice Switch (VOICE-SW)

13 Beep Prompt

14 Menu Language

15 Busy Channel Lockout

16 Receiving CTCSS

17 Transmitting CTCSS

18 Receiving DCS

19 Transmitting DCS

20 Scan Mode

21 Mute Settings

OFF: Turn off the function, without any voice prompting.
BIT: Press PTT, voice prompt when beginning transmission.
DOT: Release PTT, voice prompt when ending transmission.
800V: Press and release PTT, voice prompt.

50 groups CTCSS (67.000-254.990 MHz)
OFF: Turn off CTCSS
Non-Standard CTCSS Range: 62-260

50 groups CTCSS (67.000-254.990 MHz)
OFF: Turn off CTCSS
Non-Standard CTCSS Range: 62-260

0-279
OFF: Turn off DCS
Non-Standard-DCS Range: 0-777

0-279
OFF: Turn off DCS
Non-Standard-DCS Range: 0-777

3 Kinds of Scan modes
TG: Time scanning mode
TD: Carrier mode scan
SE: Search mode scan

There are three rapid settings: QT, QT, QT&LT
How to Operate

Auto Backlight Time (ABR) ----- MENU 1
Feature Description: This function is to set the time of activating LCD screen light.
Options: ALWAYS/OFF/1-30S, each level 1 second
Default: 85

Power Save Mode (SAVE) ----- MENU 2
Feature Description: This function is to activate or deactivate the power save mode.
There are 4 modes.
Options: OFF/01/02/03/04(It is allowed to change the sleeping time)
Default: 01

Step (STEP) ----- MENU 3
Feature Description: This function is to select the desired step value.
How to Operate

Bandwidth ----- Menu 4
Feature Description: This transceiver can work in wide bandwidth FM(± 25K) or narrow bandwidth FM (± 12.5K)
Selection : Wide / Narrow
Default : Wide

Transmit Power Selection ----- Menu 5
Feature Description: This function is to select the output power level
Default : High

Frequency Shift Direction ----- Menu 6
Feature Description: This function is to set the transmission frequency is higher (+) or lower (-) than the reception frequency
Selection : Off / + / -
Default : Off

VOX ----- Menu 7
Feature Description: It is not necessary to press the PTT key manually every time after activating this function. Once the VOX circuit detect the microphone when you speak to, it may automatically enter the transmitting state.
Please select the VOX gain before using, the higher the gain, the greater the voice you may so that can be detected by VOX circuit and then enter the transmitting state. In order to ensure the continuity of VOX detection, you can also set up menu 37 “VOX delay”. Details see the VOX delay on P33
Option: off / 1-5 seconds
Default : Off

NOTE
- VOX function is usable for the main frequency
- On FM or receiving state, VOX detect is off.

Squelch Level ----- Menu 8
Feature Description: This function to make the speaker mute when there is no signal. If the squelch level setting is correct; it is only heard the sound truly receives the signal. The higher level the squelch requires the stronger signal.
Selection : 0-9 level
How to Operate

Default: 5

ROGER ----- Menu 9
Feature Description: The beep prompt after transmitting and end of transmitting.
Selection: Off / BOT / EOT / BOTH
Default: Off
BOT (beep after pressing PTT) EOT (beep after loosening PTT) BOTH (beep after pressing and loosening PTT)

Time out timer ----- Menu 10
Feature Description: Time out timer refers to set the limited time each transmitting, it may automatically stop transmitting if reach the limited time, regardless you press the PTT, the transceiver may issued the "time out timer" at the same time.
Selection: 15-600 seconds, step 15 seconds
Default: 60 seconds

NOTE

> There is a 10-second TOT punishment when the transmitting time beyond the limited time, it is invalid to press the PTT. The TOT punishment is effective for the keypad transmission and VOX transmission.

Time of Alarm ----- Menus 11
Feature Description: Time of alarm is to alarm that the transceiver is reaching the limited transmission time, and the indication light may flashing.
Selection: Off / 1-10 seconds, step 1 second.
Default: 5 seconds

Voice Switch ----- Menu 12
Feature Description: To open or close the menu operating prompt.
Selection: On / Off
Default: On

Beep ----- Menu 13
Feature Description: Beep is an indication for checking the transceiver operation prompt, operation error or fault.
Selection: On / Off
Default: On

Menu Language (MENULANG) ----- MENU 14
Feature Description: This function is to activate English on menu display and voice guide.
**How to Operate**

**Busy Channel Lockout (BCL) ----- MENU15**
Feature Description: If the selected channel or frequency is occupied by the other transceivers, when you press PTT key to transmit after activating this function, the transceiver will not transmit, in order to avoid the conflict with the other communicating transceivers.
Option: ON/OFF
Default: OFF

**Receiving CTCSS (Rx-CTC) ----- MENU 16**
Feature Description: This function is to select receive CTCSS value.
Option: OFF/50 Groups Standard CTCSS/Non-Standard CTCSS(62.0-260Hz)
Default: OFF

**Transmitting CTCSS (Tx-CTC) ----- MENU 17**
Feature Description: This function is to select transmitting CTCSS value.
Option: OFF/50 Groups Standard CTCSS/Non-Standard CTCSS(62.0-260Hz)
Default: OFF

**Receiving DCS (Rx-DCS) ----- MENU 18**
Feature Description: This function is to select receiving DCS.
Option: OFF/105 Groups Standard DCS/ Non-Standard DCS(000-777)
Default: OFF

**Transmitting DCS (Tx-DCS) ----- MENU 19**
Feature Description: This function is to select transmitting DCS.
Option: OFF/105 Groups Standard DCS/ Non-Standard DCS(000-777)
Default: OFF

**Scan Mode (SC-REV) ----- MENU 20**
Feature Description: This function is to select the scan modes.
Option: TO/CO/SE
Default: SE
TO: after finding a carrier wave signal, scanning will continue if no operations are carried out within 5 seconds.
CO: scanning will stop when a carrier wave signal has been found, and scanning will continue if the carrier wave signal is lost for 3 seconds.
SE: scanning will stop when a carrier wave signal is found.
How to Operate

Mute Mode (SP-MUTE) ----- MENU 21
Feature Description: This function is to set the mute mode to activate the speaker in receiving mode.
Option: QT/QT*T/QT&T
QT: When the transceiver is set to this mode, all signals on the same QT frequency will activate the speaker.
QT&T: only those signals which both satisfy the requirements of QT and whose DTMF carrier wave signal also match the transceiver will activate the speaker in this mode.
QT*T: When this mode is active, only those signals which either meet QT requirements or DTMF requirements will activate the speaker.

DTMF Sidetone (DTMF-ST) ----- MENU 22
Feature Description: In transmission mode, the transceiver transmits ANI ID code or DTMF code, if the speaker can receive the DTMF tone.
Option: DT-ST/ANI-ST/DT+ANI/OFF
Default: DT-ST

Caller ID Transmission Mode (PTT-ID) ----- MENU 23
Feature Description: This function is to select the caller ID transmission mode.
Option: OFF/BOT/EOT/BOTH

Default: OFF
BOT: Transmitting caller ID when pressing PTT key.
EOT: Transmitting caller ID when releasing PTT key.
BOTH: Transmitting caller ID when pressing or releasing PTT key.

Caller ID Edit (ID-EDIT) ----- MENU 24
Feature Description: This function is to edit caller ID of the transceiver.
Option: Numerals(0-9)
Default: 101
Editing Methods: a. Via supplied Wouxun programming software b. Via Keypad

Caller ID Transmission Delay (ID-DLY) ----- MENU 25
Feature Description: The time distance between pressing PTT key and starting to transmit caller ID.
Option: 100-3000ms, each 100ms per level.
Default: 300ms

Attention

The lasting time of transmitting DTMF and the transmitting delay time between two DTMF codes can be programmed via Wouxun Supplied programming software.
How to Operate

Ringing Time (RING) ----- MENU 26
Feature Description: The lasting time for ringing before speaking when receiving the signals.
Option: OFF/1-10s, each 1s per level.
Default: 3s

Backlight Brightness (BAR-LV) ----- MENU 27
Feature Description: This function is to select the brightness of backlight.
Option: 1-5 (Level)
Default: 3 (Level)

Offset Setting (OFFSET) ----- MENU 28
Feature Description: Setting on the Frequency Offset.
Option: 0.000000-999.9975MHz
Default: 0.000000MHz

Channel Name (CH-NAME) ----- MENU 29
Feature Description: Name editing for memory channels.
Input the numbers, then the cursor automatically moves to the next position. Press ▲ / ◄ to switch the characters, while press ▼ to confirm. Press [MR] to delete the editing content while long press [MR] to exit from the operation.
Option: 26 Capital and Lower-case Letters, 0-9 Arabic Numbers and Special Characters.
Default: None
Editing: Editable via programming software or through the keypad manually.

Editing through the keypad
in standby (Channel Mode), press [□] twice to enter 'CH' mode and then press [□] twice to enter 'NAME' mode. Input the desired name, then press ▲ / ◄ to display and get the names of other characters and numbers. Press [ENT] to confirm.
E.g.: Press ▲ twice to get "1" and then press ▼ to confirm and move forward to the next position editing. (Not needed to press [ENT] to confirm the numbers input.

Memory Channels (MEM-CH) ----- MENU 30
Feature Description: Save the desired frequencies and parameters into the specified channels.
Option: 999 memory channels
Default: CH-001

Deleting Channels (DEL-CH) ----- MENU 31
Feature Description: Delete the saved channels which you do not want to use.
How to Operate

Option: 999 memory channels
Default: CH-001

Priority Channels (PRI-CH) ----- MENU32
Feature Description: Choose and set the programming channels priority which you use often
Option: 999 memory channels
Default: CH-001

Priority Scan (PRI-SCN) ----- MENU33
Feature Description: Switch for turning ON or OFF to scan the priority channels. When ON, it will monitor the priority channels every three seconds in the main area. If received the carrier on the priority channel, it will be automatically switched to be the receiving channel.
Option: ON / OFF
Default: OFF

NOTE

When powering on, there will be a three-second interrupt for receiving on the main area because of the monitoring on the priority channels.

Auto Lock (AUTOLOCK) ----- MENU34
Feature Description: When powering on, the keypad will be automatically locked if there are no more operations for 15 seconds on the keyboard.
Option: ON / OFF
Default: OFF

Lock Mode (LOCKMODE) ----- MENU35
Feature Description: Settings about locking the radios in different modes.
Option: Lock the keyboard, lock the keyboard and the encoders, lock the keyboard and PTT, lock the all.
Default: Lock the keyboard
Tips
Lock the keyboard, it locks the keypad including the side keys PF1, PF2 and PF3
Lock the keyboard, it locks the keypad and encoders including the side keys PF1, PF2 and PF3.
Lock the keyboard, it locks the keypad and PTT including the side keys PF1, PF2 and PF3.
Lock the all, it locks the above all options.

Single Tone Setting (S-Tone) ----- MENU36
Feature Description: It transmit the required single plus frequencies mainly used for activating the repeater.
How to Operate

Option: 1000Hz/ 1450Hz/ 1750Hz/ 2100Hz
Default: 1750Hz

VOX Delay (VOX-DLY) ----- MENU37
Feature Description: It is the delay time setting for turning off PTT after the VOX transmitting.
Option: OFF, 1 to 5 seconds
Default: 1 second

QT Save (SC-QT) ----- MENU38
Feature Description: It is the save modes for the detected CTCSS/DCS tones in the frequency mode.
Option: RX QT, TX QT, RX/TX QT
Default: RX QT

Auto Power-Off Timer (APO-TMR) ----- MENU39
Feature Description: The transceiver will automatically power off if there are not any receiving or other operations within the preset time, in order to save the battery voltage.
Option: ON/OFF
Default: OFF

Power-ON Message (PONMSG) ----- MENE40
Feature Description: It is programmable to set the message display when power on.
Option: Battery Voltage, Brand Logo
Default: Brand Logo

Backlight Switch (BLCDSW) ----- MENE41
Function: Switch for backlight in standby
Option: ON/FF
Default: ON

Indicator Switch (BLEDSW) ----- MENE42
Function: Receiving Indicator flashes green every five seconds in standby
Option: ON/FF
Default: ON

Repeat Setting (TYPE-SET) ----- MENE43
Function: Work mode for Repeat Setting
Option: Walkie Talkie(TALKIE), Directional Cross-Band Repeat(DIR-RPT),
How to Operate

Two-way Cross-Band Repeat (TW-RPT)
Default: Transceiver

Repeat Speaker (RPT-SPK) ----- MENE44
Function: Whether turning on the speaker for Repeat Setting
Option: ON/FF
Default: ON

Repeat PTT (RPT-PTT) ----- MENE45
Function: Whether PTT being activated for Repeat Setting

Repeat Hold Time (RPT-KPT) ----- MENE46
Function: Setting the hold time for Repeating operations
Option: OFF/ 100-500ms selectable Default: 300ms

Repeat Setting
It is required the two working channels are two different frequencies of bands, i.e., it is UHF frequency in A area while it should be VHF frequency in B area.

Directional Cross-Band Repeat (X-DIRPT)
It is repeating receiver which is only for receiving in main area while it is repeating transmitter which is only for transmitting in sub area.

Two-way Cross-Band Repeat (X-TWRPT)
In Standby, it is repeating receiver in both main and sub areas. After it receives carrier in main area, it switches to repeating transmitter in sub area. While it receives carries in sub area, then it switches to repeating transmitter in main area.

Repeat PTT
It is set to select whether using PTT to transmit out when repeating. The repeating signal is interrupted for a while PTT transmits.

Repeat Hold Time
When the signal disappears from the receiver, the user continues transmitting for a while when waiting for response within the valid hold time. If there is no more signal detected, it stops transmitting within the valid hold time.

For example
How to Operate

X-DIRPT
It is 150MHz in main A area, it is 430MHz in sub B area. When it receives singal(it is impossible to receive singal in sub B area during X-DIRPT mode), it transmit out 430MHz on sub B area.

X-TWRP
It is 150MHz in main A area, it is 430MHz in sub B area. When it receives priority singal in A area, it transmit out 430MHz on sub B area. While it receives priority singal in B area, it transmit out 430MHz on sub A area. This is cross-band two-way repeat.

Repeating Reception (RPT-RCT) ---- MENU47
Feature Description: It is the reception confirmation when the receiving repeater is off during the transceiver is receiving the repeating signals.
Option: ON / OFF
Default: OFF

Scanning Channel Adding (SCN-ADD) ---- MENU48
Feature Description: Setting the programming channels to be on the list of the scanning channels.
Option: ON / OFF
Default: OFF

Scanning Groups (SCN-GP) ---- MENU49
Feature Description: It is available to get 10 groups memory for channels, and specified the desired one to the scanning channels.
Option: All, 1 to 10 groups
Default: All

Scanning Mode (SCN-MODE) ---- MENU50
Feature Description: The scanning range in VHF mode.
Three options as followings.
Scanning on the working band, it scans in the whole working range throughout the current frequency range.
Scanning on the limit range, it scans in a limited range which is programmable via the software ahead.
Scanning the whole six bands on this transceiver. There are totally 7 bands on this transceiver, and six bands are included into the scanning list except the FM band 76-108MHz.
(1) 108-180MHz  (4)350-400MHz
(2) 136-180MHz  (5)400-512MHz
(3)230-250MHz  (6)700-985MHz
Default: Scanning on the working band.
How to Operate

Scanning CTCSS/DCS (SCN-CD) ----- MENU51
Feature Description: Selection for CTCSS or DCS scanning.
Option: CTCSS Scanning, DCS Scanning
Default: CTCSS Scanning

**NOTE**
- The CTCSS/DCS is only workable in the receiving mode.
- Please press ▲ / ▼ or rotate the encoder to change the scanning direction.
- When detecting the CTCSS or DCS tone, the scanning stops on the tone. Press ▶ to confirm and save it if needed.
- Programmable this function via the programming software.

ID Groups (CALL-ID) ----- MENU52
Feature Description: Setting the groups for calling.
Option: 1 to 20 groups
Default: Group 1

AM Detect (AUTO-AM) ----- MENU53
Feature Description: Automatically detect the AM frequencies. When powering on, the working mode of the frequencies within 108-136MHz will be automatically switched to AM.
Option: ON / OFF

**NOTE**
- Available to edit 3 to 6 digits from the Arabic numbers and "#".
- Only programmable via the software.

AM Switch (AM-SW) ----- MENU54
Feature Description: Set the receiving on AM mode. When powering on, the current frequencies will be AM receiving mode.
How to Operate

Option: ON / OFF
Default: OFF
Tips
(1) This function is only workable on A area.
(2) AM-SW will be automatically changed to OFF instead and the working mode will be switched to FM mode when the current frequencies or channels are changed.

Side key PF1 setting (PF1-DEF) ----- MENU55
Feature Description: Set the functions on side key PF1.
Option: None/ Selective Call/ Alarm/ SOS/ TX on the sub band(B-PTT)
Default: TX on the sub band(B-PTT)

Side key PF2 setting (PF2-DEF) ----- MENU56
There are long press and short press difference.
Short press, turn ON or OFF the FM radio function.
Long press(for 1 second), there are 5 options selectable, scanning, second, lamp, shift direction and keyboard light. Keyboard light is the default setting.

Side key PF3 setting (PF3-DEF) ----- MENU57
There are long press and short press difference.
Short press, Monitor key(MONI)
Long press(for 1 second), there are 4 options selectable, selective call, alarm, SOS and TX on the sub band(B-PTT). Alarm is the default setting.

Voltage Detect (VOLTAGE) ----- MENU58
It detects the voltage status.

Tone Scanning Detect (QT-SW) ----- MENU59
Check the detected tones are compatible when scanning.
Option: ON/ OFF
Default: OFF
How to Operate

Mute on the sub area (S-MUTE) —— MENU60
Setting the volume status on the sub band when the transceiver is working on the main band.
Option: OFF/ RX mute/ TX mute/ RX and TX mute
Default: OFF

Reset setting (RESET) —— MENU61
Feature Description: There are two options, functions reset and reset all. Function reset means all the menus setting will be reset to factory default. Reset all the channels, parameter and menus setting will be reset to factory default.
Default: Function reset

Detailed Instructions of Some Important Functions

1. Memory Channel
1) When the transceiver works in the channel mode, it is able to copy all the parameters except the channel names into the specified channels.
2) When the transceiver works in the frequency mode, set the offset frequencies, shift direction and other parameter ahead, and then save into the specified channels.
3) Same frequency saved in one channel
For example, specified channel CH-10, same frequency 450.025MHz, RX CTCSS 67Hz, TX DCS DN023.
Step 1, input ➔ CTCSS ➔ 67 ➔ DCS ➔ ➔ in the frequency mode
Step 2, press ➔ + ➔ + ➔ + ➔ to start setting RX CTCSS, use ➔ / ➔ to select 67.0, and then press ➔ to confirm.
Step 3, press ➔ + ➔ + ➔ + ➔ to start setting TX DCS, use ➔ / ➔ to select 67.0, and then press ➔ to confirm.
Step 4, press ➔ + ➔ + ➔ + ➔ to start selecting the desired channel CH-10 to memory.
Finally, press ➔ + ➔ + ➔ , and then ➔ to confirm and finish.
If tone is not needed, then the step 2 and 3 are not necessary.
4) Memory channel in different TX and RX frequencies. This is working for repeating communication.
For example, specified channel CH-10, RX frequency 450.025MHz with RX CTCSS 67.0Hz, TX frequency
Detailed Instructions of Some Important Functions

460.025MHz.
Step 1, input [MHz] in the frequency mode.
Step 2, press [Freq] to set the offset frequency 10.000MHz.
Step 3, press [Freq] to set the side key be shift direction, and program the direction to ‘+’.
Step 4, press [Freq] to start selecting the desired channel CH-10 to memory.

NOTE

» Viewing the memory channel list, it means the channel is saved if the channel number displays blue while the channel is blank if the channel number displays red.

2. DTMF
(1) Manual Operation
This transceiver is independently supportable for the Call ID, Selective Calls and DTMF Decode. Setting the signaling type to DTMF is programmable via software ahead.

A. All Calls
Press PTT to transmit out the PTT ID of this transceiver, and then input "*** +* #" through the keypad to activate this function.

B. Group Calls
Press PTT to transmit out the PTT ID of this transceiver, and then input the group ID (the first ID digit) you want to call, "*** +* #" through the keypad to activate this function.

C. Selective Calls
Press PTT to transmit out the PTT ID of this transceiver, and then input the PTT-ID of the transceiver you want to call through the keypad to activate this function.

(2) Shortcut
It is programmable to set thePF1 or PF2 to be selective call, to automatically transmit out the message saved on the calling groups ahead.

A. Program the parameters for the groups via software. E.g., program 123456 as the PTT ID for group 1.
B. Program the calling group by number 01 on the MENU46.
C. Program the PF1 or PF3 to Selective Call Key on the MENU49 or MENU51.
D. Press the function key which has been programmed to Selective Call, then the transceiver will selectively call the transceiver with the PTT-ID 123456.

Please repeat the above steps, program the related settings for the group calls or the all calls on the different calling groups to get the shortcut.

Group calls
Group number + + 
All calls + + 

3. FM Radio
1) Activating FM Radio
In standby, press PF2 to activate the FM Radio function, while it shows the FM frequencies on the display.
2) Searching FM stations
Press to enter into the FM menu, then press to get it searching. When searching the correct station, it stops. Press / to change the searching direction.
3) FM Frequencies Editing
Press to enter into the FM menu, and program the FM frequencies through the numeric keys within the FM range 76.02-108.99MHz.
4) FM Frequencies Memory
Press to enter into the FM menu, switch to the sub menu ‘Save’, press / to get the required group for memory, and then press to confirm and save the FM frequency.
5) Invoking the saved FM frequencies
Press to enter into the FM menu, switch to the sub menu “Call”, press / to call out the saved group, and then press to confirm and save the FM frequency.
6) Exit from the FM Radio
Please press PF2 to exit out from the FM Radio mode. It is also OK to press PF2 from the menu list to exit.

NOTE
When working on the FM frequencies, the current frequency and channel will be standby and it will be temporarily switched to two-way communication once getting the receiving signals, and then automatically get back to FM Radio after the signal disappears. Press PTT to transmit, and still gets back to FM Radio after 5 seconds.

4. Remote Control
1) Stun
Controlled code + confirmed code CB + controlled ID
Step 1, program the controlled code, controlled ID
E.g., controlled code is set to 126018 while the ID for the controlled transceiver is set to 898188.
Step 2, press PTT to transmit, then input to transmit, and the controlled transceiver will be stunned.
**Detailed Instructions of Some Important Functions**

A. The stunned transceiver is only available for receiving, not transmitting.
B. If the controlled code and ID are not 6 digit enough in step 2, add 0 (e.g., the PTT-ID is 123, then add 0 after 123 input.)
C. Repeat Step 2 to re-activate the stunned transceiver.

2) Kill

Controlled code+ confirmed code AB+ controlled ID

Step 1, program the controlled code, controlled ID

E.g., controlled code is set to 126018 while the ID for the controlled transceiver is set to 898188.
Step 2, press PTT to transmit, then input (A) (B) , the controlled transceiver will be killed.
A. The killed transceiver is not available for receiving neither transmitting.
B. If the controlled code and ID are not 6 digit enough in step 2, add 0 (e.g., the PTT-ID is 123, then add 0 after 123 input.)
C. Repeat Step 2 to re-activate the killed transceiver.

3) Monitor

Controlled code+ confirmed code DA+ controlled ID

Step 1, program the controlled code, controlled ID

E.g., controlled code is set to 126018 while the ID for the controlled transceiver is set to 898188.
Step 2, press PTT to transmit, then input (A) (B) , the controlled transceiver will be monitored.
A. If the controlled code and ID are not 6 digit enough in step 2, add 0 (e.g., the PTT-ID is 123, then add 0 after 123 input.)
B. There are only 15 seconds for monitor, and it ends if there are any operations on the monitored transceiver.

4) Inspection

Controlled code+ confirmed code DB+ controlled ID

The inspected transceivers will automatically transmit out their PTT-IDs like calling the roll. This feature is used to check whether the transceivers in groups are power on and within the available communication.
Step 1, program the controlled code, controlled ID

E.g., controlled code is set to 126018 while the ID for the controlled transceiver is set to 898188.
Step 2, press PTT to transmit, then input (A) (B) , the controlled transceiver will automatically transmit out its PTT-ID after that.
A. If the controlled code and ID are not 6 digit enough in step 2, add 0 (e.g., the PTT-ID is 123, then add 0 after 123 input.)
5. Non-standard CTCSS/DCS Setting

It is available to set the TX and RX non-standard tone separately, including the non-standard TX CTCSS, RX CTCSS, TX DCS and RX DCS.

The range for the non-standard CTCSS is 62-260MHz, while for the non-standard DCS is 000-777 (every digit of the tone should be lower than 7.)

Operations for non-standard RX/TX CTCSS

Step 1, press \( \text{2} \) to get to MENU16 "RX CTCSS" or MENU17 "TX CTCSS".

Step 2, input the non-standard CTCSS tone through the keypad, and press \( \text{2} \) to confirm while press \( \text{2} \) to exit from the setting.

E.g., set the non-standard RX CTCSS to 67.4Hz.

Press \( \text{2} \), \( \text{2} \), \( \text{2} \), \( \text{2} \) and \( \text{2} \), then press \( \text{2} \) to confirm while press \( \text{2} \) to exit from the setting.

Operations for non-standard RX/TX DCS

Step 1, press \( \text{2} \) to get to MENU18 "RX DCS" or MENU19 "TX DCS".

Step 2, input the non-standard DCS tone through the keypad, and press \( \text{2} \) to confirm while press \( \text{2} \) to exit from the setting.

E.g., set the non-standard RX DCS to D021N.

Press \( \text{2} \), \( \text{2} \), \( \text{2} \), \( \text{2} \), \( \text{2} \), \( \text{2} \) (press \( \text{2} \) to set the negative code while it is not necessary.), then press \( \text{2} \) to confirm while press \( \text{2} \) to exit from the setting.

### Appendix 1

<table>
<thead>
<tr>
<th>CTCSS</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
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<th>7</th>
<th>8</th>
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<th>10</th>
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<tbody>
<tr>
<td></td>
<td>67.0</td>
<td>69.3</td>
<td>71.9</td>
<td>74.4</td>
<td>77.0</td>
<td>79.7</td>
<td>82.5</td>
<td>85.4</td>
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<td>118.8</td>
<td>123.0</td>
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<td>229.1</td>
<td>233.6</td>
<td>241.8</td>
<td>250.3</td>
<td>254.1</td>
</tr>
</tbody>
</table>

### Specification (CTCSS/DCS)
Trouble Shooting

Please double check the transceiver according to the trouble shooting in the following table before recognizing the transceiver as the fault. And please rest the whole transceiver if the following problems happen often in order to correct the improper operations.

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cannot be powered on.</td>
<td>Please change a new battery or re-change as the battery may be out of change.</td>
</tr>
<tr>
<td></td>
<td>Please take out the battery and re-install as the battery may be installed incorrectly.</td>
</tr>
<tr>
<td>The time for battery working is not so long as usual.</td>
<td>Please change a new battery as the battery life is over.</td>
</tr>
<tr>
<td></td>
<td>Make sure the battery is fully charged before taking it out of the charger.</td>
</tr>
<tr>
<td>The indicator on the transceiver keeps flashing green, but there is no audio heard.</td>
<td>Make sure the volume is clear enough for communication.</td>
</tr>
<tr>
<td></td>
<td>Check whether the programmed CTCSS or DCS is compatible during the communication.</td>
</tr>
<tr>
<td></td>
<td>Make sure the mute mode is correct setting.</td>
</tr>
</tbody>
</table>
## Trouble Shooting

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>The keypad is useless.</td>
<td>▶ Check whether the keypad is programmed to keylock.</td>
</tr>
<tr>
<td></td>
<td>▶ Check whether there are any keys stuck.</td>
</tr>
<tr>
<td>The transceiver automatically transmit even there is no press on PTT.</td>
<td>▶ Check whether VOX is on, and the level is too low.</td>
</tr>
<tr>
<td>Some functions are not able to be programmed.</td>
<td>▶ Check whether the transceiver works in the channel mode as some functions should be programmable via software.</td>
</tr>
<tr>
<td>There is other audio interrupted when communication.</td>
<td>▶ Change the CTCSS or DCS.</td>
</tr>
</tbody>
</table>

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### Announcement

We are working hardest to make the manual perfect, but there is still emission and printing errors. All the above specification is subject to updated by Wouxun without prior notice.

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English Version: 2003-V1
DECLARATION OF CONFORMITY

We, Quanzhou Wouxun Electronics Co., Ltd.,
#38 Yuanuai 1st Road, Jiangnan High Technology Industry Park, Licheng District,
Quanzhou 362000, Fujian, China

declare that our product:

Product Description: Two-way Radio
Brand: WOUXUN
Model:

is in compliance with the essential requirements and other relevant provisions of the R&TTE RED Directive 2014/53/EU and carries the CE mark accordingly.

Supplementary information:
The product complies with the requirements of:

Low Radio
Article 3.2
ETSI EN 301 783 V2.1.1 (2016-01)

EMC
Article 3.1(b)
ETSI EN 301 489-1 V1.9.2 (2011-09)
ETSI EN 301 489-15 V1.2.1 (2002-08)

Safety
Article 3.1(a)
IEC62133:2012

Health
Article 3.1(a)
EN 62311: 2008

Date: 2017-04-10
Place: Quanzhou, Fujian, China
Name: Danny Chen
Signature:  

Danny Chen

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