MEMO

Thanks for buying the **Suouxun** 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

User Safety, Training, and General Information

READ THIS IMPORTANT INFORMATION ON SAFE AND EFFICIENT OPERATION BEFORE USING YOUR

Compliance with RF Energy Exposure Standards

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

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- United States Federal Communications Commission, Code of Federal Regulations; 47CFR part 2 subpart 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 keep the antenna

far away from your head.

Body-worn operation

Always place the radio in an **Juouxun** approved clip, holder, holster, case, or body harness for this product. Use of non- **Juouxun** -approved accessories may exceed FCC RF exposure guidelines. Antennas & Batteries

- Use only **Sucurun** approved, supplied antenna or **Sucurun** approved replacement antenna.
- Unauthorized antennas, modifications, or attachments could damage the radio and may violate FCC regulations.
- Use only **Sucurun** approved, supplied batteries or **Sucurun** approved replacement batteries.
- Use of non- **Successories** -approved batteries may exceed FCC RF exposure guidelines. **Approved Accessories**
- For a list of **Sucurun** 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.

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- 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 servive stations.
- » If you require this machine to be developed or get some changes, pleased contact with **Suouxun** or your **Suouxun** dealer.

FCC Caution:

This equipment has been testen 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 equipent generates, uses and can radiate radio frequency energy and, If the equipment is not installed and used in accordance with the instructions, it may cause harmful interference to radio communicationgs. However, there is no guarantee that interference will not occur in a particlar installation. If this equipment

does carse 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 **Solution** 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.

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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 RADIOTELEPHONE SERVICE SIGNALS IS PROHIBITED UNDER FCC RULES AND FEDERAL LAW.

CE Caution:

Hereby, **Sucura** 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 Industry Park, Quanzhou, Fujian 362000,

China

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Unpacking and Checking the Equipment

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Carefully unpack the transceiver. We recommend that you identify the items in the following table before discarding the packing material. If any item is missed or has been damaged during shipment, please notify your **Ourowan** dealer.

Supplied Accessories



Installing before use

Install / remove batterypack

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

ΝΟΤΕ Λ

 \gg Do not shortcircuit the terminals or put the batterypack into fire.

 \gg 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	
 Duplex Repeater (VHF to UHF or UHF to VHF) Duplex Work Mode (TX on one area while RX on the other area simultaneou Dual Receiving (RX on the same/different bands of A&B areas simultaneously 	
4. Large Colorful Screen	,
 Frequency Range (suitable for different countries or areas): 136-174Mhz 400-520Mhz 220-260Mhz (RX)FM:76Mhz-108Mhz(Space:100K) 	
6. Dual Display Dual Band Display on Large Screen, Two Independent Operation System	
 Frequency Offset and Direction Programmable in Repeater Mode UHF/VHF or VHF/UHF Cross-Band Repeater 	
8. 999 Memory Channels	
9. Strong and Stable Output Power (VHF: 5W/UHF: 4W)	
10. QT/DQT Encoding/Decoding, QT/DQT Scan	
11. VOX	
12. Multi Definition for Sidekeys	

Getting Started

14. DTMF Encoding&Decoding

15. All Calls, Group Calls And Selective Calls

16. SOS Function

17. Priority Scan Function

18. Remote Alarm

19. Wide/Narrow Bandwidth Selection (25KHz/12.5KHz)

20. Voice Guide: English

21. English Screen Display

22. Bright Flashlight Illumination

23. Single-Tone Pulse Frequency: 2100Hz/1750Hz/1000Hz/1450Hz (signalling for activating repeater)

24. Reverse Frequency

25. Stopwatch

26. Scrambler (Optional)

27. Setting for Backlight

28. Compander

Specifications

	Intergration		Receiving	Wide bandwidth	Narrow bandwidth	
			Adjacent Channel Selectivity	≤ 70dB	≤60dB	
Frequency	126 174Mbz8400 520Mbz8220 260Mbz		Inter Modulation	≤ 65dB	≤60dB	
Range			Spurious Response	≤ 70dB	≤70dB	
			Audio Dosponso	+1~3dB	+1~3dB(0.3	
	2.5KHz(Optional) / 5ł	KHz /	Audio Response	(0.3~3KHz)	~2.55KHz)	
Step	6.25KHz / 10KHz / 12	2.5KHz /	Signal to Noise Ratio	≥ 45dB	≥40dB	
	25KHz / 50KHz / 100	KHz	Audio Distortion	≤5%		
Channel Number	999		Audio Power	Transceiver ≤ 500mW		
Work Mode						
Operating Temperature						
Antenna Resistance						
Voltage	7.4VDC		Sensitivity	UHF/VHF:0.25µV(12dB SINAD)		
Weight	490g					
Size	124.5x 61.49 x 33.88	(mm)				
Transmitter	Wide bandwidth	Narrow bandwidth	Transmitter	Wide bandwidth	Narrow bandwidth	
Type of Modulation	16K F3E	11K F3E	Max Frequency Deviation	± 5KHz	± 2.5KHz	
Adjacent Channel Powe	r ≥70dB	≥60dB	Frequency Stability	± 2.5ppm		
Spurious	≥60dB	≥60dB	Audio Distortion	≤5%		
Audia Damana	+1~3dB	+1~3dB	Output Device	5W/1W(VHF)		
Audio Response	(0.3~3KHz)	(0.3~2.55KHz)	Output Power	4W/1W(UHF)		

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Professional FM Transceive

Getting Started

Description of Transceiver

LCD Display

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





Getting Started



Description of Functions

Multi Work Modes

a. Normal transceiver's communication mode

b. Directional cross-band repeater mode or two way cross-band repeater mode

Note: Work modes can be switched via RPT key.

1. There are A and B areas on the LCD screen to display two bands' status. The master band is with a sign "MAIN" on the top right. This is an important sign, since all the below operation instruction are for the master band. The band without this sign is called "Sub-band".

2. Specifications on A&B bands can be programmed separately. Please set the band that you want to program any specifications into as the master band firstly.

3. Some functions are not allowed to be used under directional cross-band repeater or two way crossband repeater mode.

Basic operation

Quick Search

Short press or vertice key to search the desired function/parameter during your setting, while long press to quick search.

DTMF encoding

This transceiver has DTMF encoding. By pressing the right number key on transmitting you can choose

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Professional FM Transceiv

Description of Functions

the right DTMF tone which you want to TX. Number key and corresponding DTMF encoding are as

D

+

0

#

belows:



Setting Reverse Frequency Function

When the reverse frequency function is activiated, the transmitting and receiving frequencies can be exchanged. And the CTCSS/DCS encoding and decoding can also be exchanged.

How to operate reverse frequency function:

In standby mode, long press **e** to turn on the reverse frequency function; long press **e** again to turn off.

Working Mode Switch

Two work modes:VFO(Frequency) mode and MR(Channel) mode. Three different display manners for MR mode.

A. Channel NO. B. Frequency+Channel NO. C. Channel Name

It is available to switch between the frequency mode and the channel mode manually or via the programming software. If you want, you can set the password for the mode switch.

	Professional FM Transceiver
VFO/MR(Frequency/Channel switch) switch is indicated as following: VFO — MR(Channel NO.) — MR(Frequency+Channel NO.) —	 MR(Channel Name)
When you set password for switching work mode, press [[[[], LCD screen disp input the correct password and press [[[[]]]. If inputting the wrong password,	
can not be workable. Password only can be programmed via Guouxun sup software. When the password is made up of full "ZERO", the work mode swi	
password.	ten does not require

Wire Clone Function

Using wireclone	 Installing the battery for source transceiver and target transceiver. Powering on target transceiver. Press PF3 of source transceiver, and power on at the same time. Red LED of the source radio flashes, the cloning activates 	LED is flashing red during cloning. LED goes out in case of successful cloning. LED glows continuous red in case of cloning failure.
	Target Transceiver	Green indicator is flashing during cloning. Indicator is off when completing cloning.

Description of Functions

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 charging is in standby.
- 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 complete.

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.

 \gg Trickling charge the exhausted battery is to protect the lithium-ion battery.















Squelch Level (SQL-LE) ----- MENU 2

Squelch level is about when the signal is strong enough to turn on the squelch function, and when it is weak enough to turn off. You may hear the voice from the loudspeaker when turning ON the squelch and receiving the same signal from other transceivers. Higher level makes it harder to receive the weak signals, while lower level will be interfered by noises and/or unwanted signals.

In standby, press (NENU + 2 sol), the screen displays $\left[\frac{SQL-LE}{\pi}\right]^2$ Press (NENU to enter, press (AS) / (CO) to select the desired squelch level, then press (NENU) to confirm, finally press (EXII) to return to standby.

NOTE 🖄

The squelch level for this transceiver has 0-9 levels selectable, and level 0 means turn off the squelch function. The higher level of the squelch is set, the stronger receiving signal is needed.

Power Saver Mode (SAVE) --- MENU 3

When the power saver function is ON, the receiver circuit will be cut off for a moment, and then re-activate to detect the signals for a while, in order to reduce the battery capacity consumption. In standby, press (MEND + 3SEND + 3SEND), the screen displays $(\text{SENDE}^{\text{MEND}})^{3}$ Press (MEND to enter, it shows 'ON', press (A) / (A) to select turn ON/OFF the power saver function. Press (MEND) to confirm, and then press (EXT) to return to standby.

Transmitting Power Selection (TXP) --- MENU 4

NOTE \land

 \gg This transceiver has HIGH and LOW transmitting power selectable:

VHF: HIGH: 5W LOW:1W

UHF: HIGH: 4W LOW:1W

press **EXT** to return to standby.

Transmssion Prompt settings (ROGER) --- **Menu 5** When the transceiver is standby, press the \mathbb{W} + \mathbb{W} keys and the screen will display: \mathbb{R}^{OGER} \mathbb{W}^{S} Press the key to access the menu, and after pressing the \mathbb{A} / \mathbb{A} keys to choose the required prompt mode, press the \mathbb{W} key to to confirm, or the \mathbb{E} key to return to standby. The transceiver features 4 kinds of prompt: BOT (beginning of transmission), EOT (end of transmission), BOTH (beginning and end of transmission), and OFF (prompts deactivated). **Time-out Timer (TOT)** --- **MENU 6** This transceiver can be set in 60 levels with 15 seconds each, between 15 and 900 seconds. In standby, press \mathbb{W} + \mathbb{G} , the screen displays \mathbb{T}^{DT} \mathbb{W}^{S} Press \mathbb{W} to enter, press \mathbb{A} / \mathbb{V} to select the desired timer level, then press \mathbb{W} to confirm, finally

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VOX (VOX) --- MENU 7

In standby, press MENU + 7000, the screen displays $\frac{1000}{4}$

Press 💵 to enter, press 🔼 / 🔽 to select VOX level(1-9), then press 💷 to confirm, finally

press **EXIT** to return to standby.

NOTE 🖄

>> The higher level of VOX is set, the higher volume is needed.>> In SCAN and FM radio modes, the VOX function is not available

Bandwidth Selection (W/N) --- MENU 8

In standby, press MeNU + 8 ww , the screen displays $\begin{bmatrix} WH \\ H \end{bmatrix}$

Press 💵 to enter, it shows 'WIDE', press 💌 / 💟 to select WIDE/NARROW bandwidth, then press

MENU to confirm, finally press **EXIT** to return to standby.

There are two bandwidths for option:WIDE:25KHz and NARR:12.5KHz

Voice Guide (VOICE) --- MENU 9

In standby, press MENU + 9000 , the screen displays \bigcup_{μ}

Professional FM Transceiver Press 💵 to enter, press 🔼 / ᡞ to select ON or OFF , and then press 🖭 key to confirm, finally press ன to return to standby.

NOTE 🖄

 \gg Turn off MENU 9 and MENU 11 at the same time to turn off all the voice prompt if required.

Transmitting Overtime Alarm (TOA) --- MENU 10

In standby, press MENO + MEP 0, the screen displays \int_{R}^{TOR}



Press the 🔤 key to access the menu, and after pressing the 🔼 / 🔽 keys to select the required time,

press the www.key to confirm, and the example to return to standby.

TOA has a maximum length of 10seconds, each level corresponding to 1second. OFF: Deactivate TOA.

Special Reminder 🖄

>> When the transmission exceeds the "Time-out timer" set time, a error tone will prompt, and transmission is stopped automatically.

Beep Prompt Function (BEEP) --- MENU 11

In standby, press MENU + 1STEP (STEP), the screen displays BEEP

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Press were to enter, press A / T to turn ON/OFF the beep prompt function, then press were to confirm, finally press exert to return to standby.

Display Language (LANGUAGE) --- **MENU 12** In standby, press (NEW) + (THE) (2 KM), the screen display (LANGUAGE) Press (NEW) to access the function, press (A) / (C) to select the desired language, and then press (NEW) to confirm, press (KM) to return to standby mode. Two Options:CHINESE and ENGLISH

Busy Channel Lockout (BCL) --- MENU 13

In frequency mode, press (MENU) + (TFP) (3500), the screen displays $(BCL) = \frac{MENU}{H}$ Press (MENU) to enter, press (A) (\Box to select ON/OFF this function, then press (MENU) to confirm, finally press (EXII) to return to standby.

Note: This function is invalid in cross band repeater or repeater/transmitter modes.

Scan Mode Settings (SC-REV) --- Menu 14 When the transceiver is standby, press the MENO + Gree 4 rest or the screen will displayPress the MENO key to access the menu, and after pressing the <math>rest or the screen will display = 0 ting, press the New key to confirm, and the Exp key to retum to standby The transceiver has 3 scan modes: TO, CO, and SE: TO: after finding a carrier wave signal, scanning will continue if no operations are carrier 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. NOTE / \gg Hold on \bigcirc for 2 seconds to access the scan mode. Receiving CTCSS settings (RX-CTC) --- Menu 15 When the transceiver in standby, press the Menu + 1500 find keys and the screen will display Press the www key to access the menu, and after pressing the *r* / *r* key to select the CTCSS you desire, press the exit key to return to standby. The CTCSS has a total of 50 groups, ranging from 67.0 to 254.1HZ. OFF:Deactivate.

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Transmitting CTCSS settings (TX-CTC) --- Menu 16

When the transceiver is standby, press the Menu + Menu +

Receiving DCS settings (RX-DCS) --- Menu 17

When the transceiver is standby, press the Ment + 1 for Too keys and the screen will display $\begin{bmatrix} R - DCS & n \\ R \end{bmatrix}$ Press the Ment key to access the menu, and after pressing the A / T key to select the DCS you desire, press the Ment key to confirm, and press the Ment key to return to standby.

DCS: 105 groups of positive code, 105 groups of negative code, ranging from D023N to D754I. OFF: Deactivate.

Transmission DCS settings (TX-DCS) --- Menu 18

When the transceiver is standby, press the MEND + 15EP (BWN) keys and the screen will display $\begin{bmatrix} T - DCS \\ H \end{bmatrix}$ Press the MEND key to access the menu, and after pressing the \frown / \frown key to select the DCS you desire, press the MEND key to confirm, and press the EXT key to return to standby. DCS: 105 groups of positive code, 105 groups of negative codes, ranging from D023N to D754I. OFF:Deactive.

стсѕѕ									
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

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1	D023N	16	D074N	31	D165N	46	D261N	61	D356N	76	D462N	91	D6
2	D025N	17	D114N	32	D172N	47	D263N	62	D364N	77	D464N	92	D6
3	D026N	18	D115N	33	D174N	48	D265N	63	D365N	78	D465N	93	D6
4	D031N	19	D116N	34	D205N	49	D266N	64	D371N	79	D466N	94	D6
5	D032N	20	D122N	35	D212N	50	D271N	65	D411N	80	D503N	95	D6
6	D036N	21	D125N	36	D223N	51	D274N	66	D412N	81	D506N	96	D6
7	D043N	22	D131N	37	D225N	52	D306N	67	D413N	82	D516N	97	D6
8	D047N	23	D132N	38	D226N	53	D311N	68	D423N	83	D523N	98	D7
9	D051N	24	D134N	39	D243N	54	D315N	69	D431N	84	D526N	99	D7
10	D053N	25	D143N	40	D244N	55	D325N	70	D432N	85	D532N	100	D7
11	D054N	26	D145N	41	D245N	56	D331N	71	D445N	86	D546N	101	D7
12	D065N	27	D152N	42	D246N	57	D332N	72	D446N	87	D565N	102	D7
13	D071N	28	D155N	43	D251N	58	D343N	73	D452N	88	D606N	103	D7
14	D072N	29	D156N	44	D252N	59	D346N	74	D454N	89	D612N	104	D7
15	D073N	30	D162N	45	D255N	60	D351N	75	D455N	90	D624N	105	D7

CALL/VFTX on Side Key 1 (PF1-KEY) --- MENU 19

In standby, press MENU + 15TEP 910CE kthe screen displays PFI-KEY 18

Press (access the menu, press () / (to select the mode you desire. And then press (to confirm, and press (to return to standby.

Two options: CALL(Selective Calls) and VFTX (Transmission on Sub-frequency).

Selective call codes are programmed via **Supplied** software.



NOTE 🖄

>> Each alarm lasts 10seconds, and after 5 minutes, the alarm will re-activate. Press any key to exit the function.

TeleAlarm: Activate remote alarm function

In standby, press PF3, the speaker will prompt alarm and transmit ANI ID code +numbers "110".

Press PTT key to exit.

RADIO: Activate the FM radio function

A. Activate FM radio:

In standby, press PF3 to activate FM radio. The screen displays 7600HZ, press 🐖 to access FM

radio function to automatically search FM radio. The search will automatically stop when receiving FM radio.

FM radio will be received on the searched frequency.

B. Inputting FM radio Frequency

In FM radio mode, press PF3, the screen display $\frac{\text{BB9MHZ}}{\text{H}}$, hold on RPT for 2 seconds, the screen

displays $\boxed{\qquad}$.It is OK to input the FM radio frequency.

C. Exit FM radio Press PF3 again to exit FM radio function. Professional FM Transceive

NOTE 🖄

When FM radio is active, current frequency or channel is still in standby. After receiving the signals, the transceiver returns to transceiver communication mode. After the signal disappears for 5seconds, the transceiver returns to FM radio. After 5seconds when pressing PTT key to transmit, the transceiver returns to FM radio automatically.

Working Mode Switch (CH-MDF) --- MENU 21

In standby, press MENU + 2 SQL (1STEP), the screen display $\left[\begin{array}{c} -& \\ CH-MDF \end{array}\right]^{MNN}$

Press 💵 to enter, press 💌 / 🖤, to select mode then press 💵 confirm , press 🔊 it return to

standby.

This transceiver has two options for the working mode:

1. Frequency mode(FREQ)

2. Channel mode

There are three channel display selections in channel mode as follows;

① Channel (CH) ② Frequency+ Channel number (CH FREQ) ③ Channel name (NAME)

NOTE 🔨

» The password for the work mode switch is programmed only via the programming software. \gg The password is consist of 6 characters, while "000000" means no password needed for the mode switch.

Auto Backlight (ABR) --- MENU 22

In standby , press MENU + 2SQL (2 SQL) , the screen display $\begin{bmatrix} BBR \\ H \end{bmatrix}$

Press MENU to enter, press 🔼 / 🔽 to select backlight function, then press MENU confirm, press 🕬 return to standby.

Always Activate

1S-20S: Set the lasting time of backlight

Offset Frequency (OFF-SET) --- MENU 23

In standby, press MENU + 2 SOL 3 SME and the screen display

Press MENU to access the menu, press 🔼 / 🔽 to select the parameter you desire, and then presss MENU

to confirm, press **EXT** to return to standby.

Offset frequency range:0-599.995MHz, The 7th and 8th frequency point depends on the programmed step frequency.



When this function is ON, press and to start counting, while press any key to stop working . Press again to re-start counting.

NOTE 🖄

» Press any key (except 📖) when the stopwatch stops working to exit the stopwatch function.

Editing a Channel Name (CH-NAME) --- MENU 26

Channel names can only be edited in channel mode, and only the name of the present channel can be edited this operation is ineffective in frequency mode.

In standby, press M_{H} + 2 50 6 M_{H} keys and the screen will display $\left[\begin{array}{c} H_{H} \\ H_{H} \end{array} \right]$

Press I to access the menu, and the first digit will flash (which indicates that this digit is being edited). Press I to choose the required character, press I to edit the next character, press I to confirm, and then press I to return to standby.

NOTE 🖄

 \gg 1.Channel names can be maximum of 8 characters long.

>> 2. When all 8 characters are empty, the channel will be displayed on the screen as "NO-NAME!"

MULAUXU Professional FM Transceiv Memorize Channel (MEM-CH) --- MENU 27 In channel mode or standby, press MENU + 2^{SQ} 7 vor , the screen displays $\frac{MEM-CH^{23}}{2}$ Press MENU to access the menu, press 💌 / 🔽 to select the desired channel order, and then press MENU to memorize with a voice prompt. Press **EXE** to return to standby. When the transceiver is in channel(MR) mode, the parameters(except channel name and scan adding) will be memorized into the channel When the transceiver is in frequency(VFO) mode, you can program all the parameters(frequency, offset, offset directions etc.) into the channel to memorize. Example: Memorize the parameters: "Receiving frequency 450.025MHz, receiving CTCSS is 67.0Hz, transmission frequency is 460.025MHz" into the Channel NO.10. 1.Inputting 450.025MHz to the transceiver in frequency(VFO)mode, press MEND + 1999 5 and to access re-

ceiving CTCSS/DCS setting, press 🔼 / 🔽 to select 67.0Hz, press 📖 to confirm.

2.Press MENU + 2 SQL (3 SWE to select the offset frequency is 10.000MHz, press MENU + 2 SQL (4 TOB) to set the frequency direction as "+".

3. Press 💵 + 2 📾 7🚥 to access channel memory, select CH-010 and press 💵 to memorize the channel

and return to standby.

In standby, press MENU + 2 SOL TWO to access channel memory, the screen displays $\left| \begin{array}{c} \mathbb{C}H^{-001} \\ \mathbb{C}H^{-001} \end{array} \right|$

. input the

desired channel number orderly, and then press MENU to confirm.

NOTE 🔨

» When the selected channel is empty (without any parameter), the characters of the channel number is blue, while the selected channel is with the memorized parameters, the characters of the channel number is dark red

Deleting a channel (DEL-CH) --- MENU 28

In standby, press MENU + 2 SOL BWW , the screen will display

Press 🔤 to access the menu, press 🔼 / 🔽 to select the channel you wish to delete or manually in-

putting the channel number, press men to confirm and the exert key to return to standby.

Special Reminder 🛝

 \gg 1st channel can not be deleted

» When the selected channel is empty (without any parameter), the characters of the channel number is blue, while the selected channel is with the memorized parameters, the characters of the channel number is dark red

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CTCSS scanning (SCN-CTC) --- MENU 29

This function is scanning the programmed frequencies or channels with CTCSS/DCS or not. When the CTCSS/DCS are not compatible with the one you are going to communicate with, it stops the regular communication.

In standby, press (NEND) + 2 SQ (Source , screen displays Science CTCSS or DCS,

then Press MENU to confirm and start the scan.

Special Reminder / 🧄

» if there is no carrier received on the scanned frequencies or channels, the function is not activated.

- \gg pls use the \square / \square to change the direction for scanning.
- » it stopes on the frequency or channel which is programmed with CTCSS/DCS, pls press KENU to save by yourself if needed. Pls press (see to continue to scan the next frequencies or channels if not needed.

Power-ON Message(PONMSG)-----MENU 30

In Standby, press MENU + 3SNE 0, the screen displays $sc-dcs^{MNS}$ Press when to enter the function, then press 🔼 / 🔽 to select the parameter and then were to confirm,

while press even to return back to the standby.

BITMAP: Picture

BATT-V: Voltage

Mute settings (SP-MUTE) --- MENU 31

In standby, press MEND + 3^{SP} (step), the screen displays $\left[S^{\text{SP}-\text{MUTE}^{3}}\right]$

Press (NEND) to access the menu, and after pressing () () to choose the required mute mode, press (NEND) to confirm, and press () to return to standby.

Squelch settings: set the conditions which determine when the speaker shall be turned on, these settings are used during selective calls, group calls and all calls.

The transceiver's mute mode include:

QT: When the transceiver is set to this mode, all signals on the same QT frequency will activate the speaker.

QT+DTMF: 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*DTMF: When this mode is active, only those signals which either meet QT requirements or DTMF requirements will activate the speaker.



In standby, press MENU + 3540E 3540E , the screen displays $\left[\frac{R + U - E D T}{4}\right]^{33}$

After pressing were, if a Caller ID code has been already input, it will be displayed, and the first digit will flash. If no Caller ID code has been input, 101 will be displayed, and the first digit will flash. Input 123 at the same time, press were to confirm, press exert to return to standby.

Special Reminder 🛆

 \gg Each transceiver can have only one ANI ID code, which is shared by Area A and B.

DTMF Sidetone (DTMF-ST) --- MEUN 34

In frequency mode, press MENU + 33ME 410 , The screen display $27MFST^{3}$

Press Menu to enter, press 🔊 / 🔽 to select the required sidetone mode, and press Menu to confirm, press

The transceiver has the following DTMF modes: 1. DT-ST: Keypad sidetone will be activated when transmitting; 2. ANI-ST: ANI ID code sidetone will be activated when transmitting; 3. DT+ANI: keypad and caller ID sidetone are both activated when transmitting. OFF: Deactivate sidetone function. **Keypad Autolock (AUTOLOCK) --- MENU 35** In standby, press (MENO) + (3WE) (5WE), the screen displays $(FUTOLK)^{MMB}$ Press (MENO) to access the menu, press (A) / (C) to select ON(Activate)/OFF(Deactivate), and then press (MENO) to confirm, press (ENO) to return to standby.

After activating keypad autolock function, the keypad will be locked automatically without any operation in 15seconds. Hold on 🕬 for 2seconds to unlock the keypad.

NOTE 🖄

Manually lock: In standby, hold on for 2 seconds to lock the keypad, hold on for 2 seconds again to unlock the keypad.

Priority Channel Switch (PRI CH-SW) --- MENU 36

In standby, press MENU + 33NE 600 , the screen display $\int_{R}^{NMM} P_{RICH-SW}^{NMM}$

Press MEND to access, press 🔼 / 🔽 to select ON/OFF. And then press MEND to confirm, and press EXT to return to standby

If you want to monitor the other frequency and check the certain preferred frequency at the same time, you can set priority scan function.

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E.g.: Scan six channels. Set CH1, CH2, CH3, and CH4 and CH5 as the common scanned channels and CH6 as the priority scanned channels. Then the scanning order is as followings:

ightarrow CH1ightarrow CH6ightarrow CH6ightarrow

When this transceiver detects signal on the priority channel during scanning, it will on its frequency. Please program the priority channel via KG-UV8E programming software.

Repeater Setting (RPT-SET) --- MENU 37

This transceiver has 2 repeater setting available:

1.X-DIRPT: Directional cross-band repeater mode

2.X-TWRPT: Two way cross-band repeater mode

Special Reminder 🖄

In cross-band repeater mode, if the channel or frequency set the reverse frequency, offset frequency, or offset direction, its transmitting frequency would out of the transceiver's frequency, then it will not transmit. Master frequency and sub frequency for repeater should be on different bands. (For example, master frequency is programmed on VHF band, and the sub frequency should be programmed on UHF band, and vice versa.)

X-DIRPT (Directional cross-band repeater): The master VFO's receiving frequency is the cross-band receiver's receiving frequency, and the sub VFO's transmitting frequency is the cross-band transmitter's transmitting frequency.

X-TWRPT (Two way cross-band repeater): In standby, both the master and secondary VFO's are receivers, whichever VFO receives an effective carrier-wave signal, the other VFO will be the transmitter and start transmitting. The transmitter and receiver is unfixed under two way cross-band repeater mode. The first received VFO is receiver and relatively the other one is transmitter. After accessing cross-band repeater mode, the operation of receiving /transmission frequencies, CTCSS/DCS encoding& decoding are the same as the transceiver is in transceiver

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communication mode.

Example:

- A. Before accessing cross-band repeater mode, A area is in channel mode. The receiving frequency and
- CTCSS/DCS in cross-band repeater mode are the same with the channel in standby.
- After B area receives the effective signal, A area starts transmission. The transmitting frequency and
- CTCSS/DCS in cross-band repeater mode are the same with the channel in A area.
- If setting reverse frequency function, the transmission&receiving frequencies and CTCSS/DCS will be reverted.
- B. Before accessing cross-band repeater mode, A area is in frequency mode. The receiving frequency and CTCSS/DCS in cross-band repeater mode are the same with the setting in standby.
- After B area receives the effective signal, A area starts transmission. The receiving frequency and CT-
- CSS/DCS in cross-band repeater mode are the same with the channel in A area.
- If setting reverse frequency function, the transmission&receiving frequencies and CTCSS/DCS will be reverted.
- To select if you will open speaker for the receiver in cross-band repeater via MENU38 (RPT-SPK) ,and if you would like to hold on PTT key to transmit in repeater mode via MENU39 (RPT-PTT). But if you press PTT key to transmit, the transceiver exits the repeater mode temporarily.

In standby, press MENU + 33NE 7VX the screen displays $\begin{bmatrix} RPT-SET^{31} \\ H \end{bmatrix}$



Press 💵 , press 🔼 / 🔽 to select the mode you desire, and then press 💵 again.

Special Reminder A

- \gg In cross-band repeater mode, the screen will display 📿 .
- Switching transceiver communication and repeater modes via RPT . In standby, hold on RPT for 2 seconds to switch the modes.
- In order to use the repeating well, there is the Repeating Receipt Tone which is set by MENU 47. The repeating receipt tone timely and effectively reports the working status and increases the efficiency of repeating.
- The Repeating Hold Timer is used for avoiding to press or release PTT too frequently in order to read out the message. When the receiver was released PTT, the hold time is able for the equipment keeping transmitting for a while during waiting for response. If there is no efficient QT/DQT detected within the hold time, then the transmitter will release PTT. The repeating hold timer is setting the hold time for the transmitter to keep transmitting after the QT/QDT receiving signal disappears. The function is programmable by *Guouxun* supplied software.

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Repeater Speaker (RPT-SPK) --- MENU 38 In standby, press (NEND + SING SING), the screen display (RPT-SPK ³⁸) Press (NEND to access, press (A) / (C) to select ON/OFF. And then press (NEND to confirm, and press (EXT) to return to standby.

Repeater PTT (RPT-PTT) --- MENU 39

In standby, press MENU + 33NE 9VOF, the screen display \mathbb{R}^{PT-PTT}

Press were to access, press / return to select ON/OFF. And then press were to confirm, and press exit to return to standby.

Scan Add (SCAN-ADD) --- MENU 40

This function means whether a channel in scanning when in the startup channel scanning, so the function can be set only in the channel mode under the current channel, is invalid in frequency mode. In standby, press MEND + 4100 0 , the screen display $SCAN-ADD^{ND}$ Press MEND to access, press A / C to select ON/OFF. And then press MEND to confirm, and press EXD to return to standby.

Note:The function is invalid in cross-band repeater or repeater/transmitter mode.

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Single-Tone Pulse Frequency (ALERT) --- MENU 41

Some of the relay systems used for single-tone pulse transmission need a single-tone pulse signal to ac-

tivate, if a repeater is already active, however, this signal is not needed. The following pulse signal frequencies can be selected: 1750Hz, 2100Hz, 1000Hz and 1450Hz.

In standby, press MENU + 4TP (STEP), the screen displays RLERT

Press were to access, press 🔨 / 🔽 to select the parameter you desire and then press were to confirm, press exert to return to standby.

In transmission mode, press PF2 to transmit the selected single-tone pulse frequency.

Caller ID Code Transmitting Delay (PTT- DLY) --- MENU 42

Is standby, press MENU + 4102 2 sol , the screen display $Press MENU = PTT - DLY^{W2}$ Press MENU to access, press A / V to select the time you want. And then press MENU to confirm, and press EXT to return to standby.

This delay time can be set 100~3000ms, total 30 levels with 100ms each.

Caller ID Transmission Mode (PTT-ID) --- MENU 43 In standby, press MEND + 412 3845, the screen display PTT-ID ***

Press (NEW) to access, press () / () to select the mode you want. And then press (NEW) to confirm, and press (EXIT) to return to standby.

This can be set three methods, BOT (begin), EOT (end), BOTH (begin /end).

Ring Time --- MENU 44

In standby, press MENU + 410 410 , the screen display RING

Press I to access, press 🔊 / 🔽 to select the parameter you want. And then press to confirm, and press i to return to standby.

This ring time can be set 10 seconds, total 10 levels with 1 second. OFF:Deactivate the function.

Scan group A setting (SCG-A) --- MENU 45

The scan group settings are the way that a transceiver can divide the programming channels into different scan groups. It will scan all channels in Group A.

Scan group settings are: ALL channel, as well as 1-10 individual scanning groups.

In standby, press Ment + 412 5 and , the screen displays $scg-ref{res}$

Press 🔼 / 🔽 to press 💵 to confirm, press 💷 to return.

Note:Scanning group A setting is active in A area.



Saving Scanned CTCSS/DCS (SC-QT) --- MENU 48

When the transceiver is in CTCSS/DCS scanning, there are 3 saving types to save the detected CTCSS/

DCS from the others to your transceiver:

1.Save as your transceivers decoder and encoder(ALL).

2.Save as your transceiver encoder(ENCODER)

3.Save as your transceiver decoder(DECODER)

When the transceiver is in standby, press Ment = 470 Res = 100 keys and the screen will display

Press 🔼 / 🔽 press 🌆 , and then press 💷

Mute Setting on Sub-frequency --- MENU 49

Mute function is very practical, especially when the transceiver is in dual receiving mode. In standby, press Mexu + 470 g_{MOS} , the screen displays $\left[\begin{array}{c} Spectral Prime P$

Press $Mext{ to}$ to access and then press \frown / \frown to select the parameter you desire, and then press $Mext{ to}$ to confirm.

OFF: Deactivate the function

TX: Transmission on master frequency, the receiving volume of sub-frequency is off.

RX: Receiving on master frequency, the receiving volume of sub-frequency is off.

TX/RX: Both receiving and transmission on master frequency, the receiving volume of sub-frequency is

Professional FM Transceiver **Selective Call Code Group Setting (CALLCODE)** ---- **MENU 50** In standby, press (1) + (1

Reset setting (Reset) --- MENU 51

Functional Parameter Reset(VFO): resets all functional settings to factory default values, but channel parameters are not reset.

Total Parameter Reset(ALL): resets all of the transceiver's functional settings and channel parameters to factory values.

In standby, press MENU + 5 and 1 step , the screen displays \mathbb{R}^{ESET}

Press INEND to access, press 💽 / 💽 to select the parameter you desire and then press is to confirm. The screen will display 🔐 ()

After the transceiver resets(VFO/ALL), it will restart and return to standby mode.

off.

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Setting Backlight(BK-LIGHT)----MENU52

In standby, press MENU + 5 and 2 sou , screen display Press 🔤 to enter the function, then press 🔼 / 🔽 to select the parameter and then 🔤 to confirm, while press MENU to return back to the standby. Level selectable for baklight setting: 01 to 10

Radio Storage(RADIO-WR)----MENU53

Read Radio Station: In FM Radio mode, enter the menu to select the function, there is 20 groups for selection.

Write Radio Station: In FM Radio mode, enter the menu to select the function, there is 20 groups for selection.

In standby, press MENU + 5 100 3 SAVE , screen display

Press MENU to enter the function, then press 🔼 / 🔽 to select the parameter and then MENU to confirm,

while press to return back to the standby.

Scrambler(SCRAM)----MENU54

This is a special voice process to keep the communication confidential from other non-users.

In standby, press MENU + 5 4 12 , screen display

Press $M \equiv N = 10^{-1}$ to select the parameter and then $M \equiv N = 10^{-1}$ to select the parameter and then $M \equiv N = 10^{-1}$ to confirm.

while press MENU to return back to the standby.

There are 8 groups for selection, OFF is to turn off this function then.

» Note: Scrambler function is optional. NOTE

Compander(COMPANDER)----MENU55

This is for decreasing the voice squelch, and it is highly efficient for long-term communication.

In standby, press MENU + 5000 5000, screen display

Press MENU to enter the function, then press 🔼 / 💽 to select the parameter and then MENU to confirm,

while press to return back to the standby.

There is ON and OFF selectable

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Detailed Instruction for Some Important Functions

All calls, Group calls and Selective calls

There are Caller ID code transmission, Caller ID code edit and DTMF decoding functions. Without the assistance of the other communication equipments, the all calls, group calls and selective calls are available between the groups.

Before using all calls, group calls and selective calls function, you need to set as followings:

1. Caller ID CODE edit

Each transceiver in the same group should be edited a unique ANI ID code.

Caller ID CODE: ID -- XXX(3 digits) ID -- XXXX(4 digits) ID--XXXXX(5 digits) ID-- XXXXXX(6 digits)

	×	
Caller ID CODE	Group NO. mark	Unique Caller ID CODE
mark	From 1 to 9 group, Maximum: 9 groups	From 00000~999999, Maximum:1000000 digits
	This is how to	set Caller ID CODE.

NOTE: Caller ID Codes should be different for the transceivers in the same group.



Detailed Instruction for Some Important Functions

a. How to use all calls function:

Hold on PTT key to transmit.After transmitting Caller ID Code, input 🕬 + 🗰 keys directly. b. How to use group calls function:

Hold on PTT key to transmit.After transmitting Caller ID Code, input "Group NO." (1990) + (19900) + (1990) + (1

Hold on PTT key to transmit. After transmitting Caller ID Code, input the Caller ID Code of the selective transceiver that you want to speak to.

Note: Selective call is available via selective call key.Selective call code is programmed via **Ourouxun** supplied software.Programming the same selective call code of the selective transceiver and Caller ID code of the selected transceiver.

For example, Caller ID Code for the selected transceiver is 123456, selective call code for the selective transceiver should be 123456 too.

Repeater Usage

1.Repeater PTT Switch (RPT-PTT)

When the transceiver is in standby, press Menty + 33WB 900CB keys and the screen displays $\left[\frac{RPT - PTT}{H} \right]^{MWB}$ Press Menty to access the settings, and after pressing the I (V) the PTT transm-



Detailed Instruction for Some Important Functions

cross-band repeater mode.

(2) When "RPT-SPK" is ON, any transceiver in cross-band repeater mode can receive the effective signals, and then the repeater receipt tone will be heard.

(3) The difference between directional cross-band repeater and two-way cross-band repeater modes is

the transmitter and receiver is unfixed under two way cross-band repeater mode. Directional cross-band repeater: The master frequency area A is the receiving frequency of the receiver in cross-band repeater mode, the sub-frequency area B is the transmitting frequency. Two-way cross-band repeater mode: In standby, both master and sub areas are receivers, whichever area receives an effective carrier wave signal, the other area will be the transmitter and start transmitting.



Troubleshooting

Before assuming your transceiver is broken, please check your transceiver according to the following table; if the problem problem persists, you can reset the transceiver, which sometimes.

Fault	Solution
	\gg Check that the volume knob has been set to maximum.
Reception prompt remains	>> Please reset CTCSS/DCS to check whether different channels
but speaker is silent	from other group members have been set.
	>> Check whether mute settings are correct.
Kouped is uprospensive	>> Check whether keypad has been locked.
Keypad is unresponsive	>> Check whether other keys have been pressed.
Other voices (not from group members) appear in the channel.	» Please change the CTCSS / DCS code.
In standby, automatic transmission without pressing PTT key	>> Please check if VOX function is active or VOX level is too low.

Fault	Solution
Can not enter scanning mode	» Please see if the scan group channel, Scan Add function is turned on.
Cannot set up the cross- band repeater	Please make sure A/B area is on the cross-band repeaters operating frequency.
Cannot transmit in repeat mode	Please check to see if the receivers squelch and CTCSS / DCS settings are correct.

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Announcement

Succession endeavors to achieve the accuracy and completeness of this manual, but it is still not perfect for any possible omissions or printing errors. All the above is subject to be updated without prior notice. ΜΕΜΟ

English Version: 1606-V1