



SAFETYTRAINING INFORMATION



Your **3108** radio generates RF electromagnetic energy during transmit mode. This radio is designed for and classified as "Occupational Use Only", meaning it must be used only during the course of employment by individuals aware of the hazards, and the ways to minimize such hazards. This radio is NOT intended for use by the "General Population" in an uncontrolled environment.

This radio has been tested and complies with the FCC RF exposure limits for "Occupational Use Only". In addition, your **3108** radio complies with the following Standards and Guidelines with regard to RF energy and electromagnetic energy levels and evaluation of such levels for exposure to humans:

- FCC OET Bulletin 65 Edition 97-01 Supplement C, Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields.
- American National Standards Institute (C95.1-1992), IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.
- American National Standards Institute (C95.3-1992), IEEE Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields- RF and Microwave.
- The following accessories are authorized for use with this product. Use of accessories other than those (listed in the instruction) specified may result in RF exposure levels exceeding the FCC requirements for wireless RF exposure.



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

- CAUTION
- DO NOT operate the radio without a proper antenna attached, as this may damaged the radio and may also cause you to exceed FCC RF exposure limits. A proper antenna is the antenna supplied with this radio by the manufacturer or antenna specifically authorized by the manufacturer for use with this radio.
- DO NOT transmits for more than 50% of total radio use time ("50%duty cycle"). Transmitting more than 50% of the time can cause FCC RF exposure compliance requirements to be exceeded. The radio is transmitting when the "TX indicator" lights red. You can cause the radio to transmit by pressing the "PTT" switch.

ALWAYS keep the antenna at least 2.5 cm (1 inch) away from the body when transmitting and only use the 5188 belt-clip which is listed in instructions when attaching the radio to your belt, etc., to ensure FCC RF exposure compliance requirements are not exceeded. To provide the recipients of your transmission the best sound quality, hold the antenna at least 5 cm (2 inches) from your mouth, and slightly off to one side.

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

Electromagnetic Interference/Compatibility

During transmissions, your **3108** radio generates RF energy that can possibly cause interference with other devices or systems. To avoid such interference, turn off the radio in areas where signs are posted to do so. **DO NOT** operate the transmitter in areas that are sensitive to electromagnetic radiation such as hospitals, aircraft, and blasting sites.

Occupational/Controlled Use

The radio transmitter is used in situations in which persons are exposed as consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure.

IMPORTANT

READ ALL INSTRUCTIONS carefully and completely before using the transceiver

SAVE THIS INSTRUCTION MANUAL- This instruction manual contains

important operating instructions for the Two-Way Radio

EXPLICIT DEFINITIONS

WORD	DEFINITION
WARNING	Personal injury, fire hazard or electric shock
WARNING	may occur.
CAUTION	Equipment damage may occur.
NOTE	If disregarded, inconvenience only. No risk
NOTE	of personal injury, fire or electric shock.

OPERATING NOTES

- When transmitting with a portable radio, hold the radio in a vertical position with its microphone 5 to 10 cm (2 to 4 inches) away from your mouth. Keep the antenna at least 2.5 cm (1 inch) from your head and body.
- If you wear a portable two-way radio on your body, ensure that the antenna is at least
 2.5 centimeters (1 inch) from your body when transmitting.

PRECAUTIONS

- WARNING! NEVER hold the transceiver so that the antenna is very close to, or touching exposed parts of the body, especially the face or eyes, while transmitting. The transceiver will perform best if the microphone is 5 to 10 cm (2 to 4 inches) away from the lips and the transceiver is vertical.
- WARNING! NEVER operate the transceiver with a headset or other audio accessories at high volume levels.
- **CAUTION! NEVER** short the terminals of the battery pack.
- NEVER connect the transceiver to a power source other than the Battery listed below Such a connection will ruin the transceiver.
- **DO NOT** push the PTT when not actually desiring to transmit.
- AVOID using or placing the transceiver in direct sunlight or in areas with temperatures below -30°C (-22°F) or above +60°C (+140°F).
- **DO NOT** modify the transceiver for any reason.
- MAKE SURE the flexible antenna and battery pack are securely attached to the transceiver, and that the antenna and battery pack are dry before attachment. Exposing the inside of the transceiver to water will result in serious damage to the transceiver.
- BE CAREFUL! The series transceivers employ waterproof construction, which corresponds to IPX7 of the international standard IEC 60529 (2001), 1 m depth for 30 minutes. However, once the transceiver has been dropped, waterproofing cannot be guaranteed due to the fact that the transceiver may be cracked, or the waterproof seal damaged, etc.

The use of **non-5188** battery packs/chargers may impair transceiver performance and invalidate the warranty.

FCC CAUTION:

Changes or modifications to this device, not expressly approved by **3108**, could void your authority to operate this transceiver under FCC regulations.

THANK YOU!

We are grateful for your purchase this transceiver. We believe this easy-to-use transceiver will provide you with dependable and reliable communications.

This transceiver is a wide-band professional FM transceiver with high quality, it will provide you reliable communication from 136-174MHz or 400-470MHz with advanced technology and workmanship, for better performance, please read the manual before use.

MODELS COVERED BY THIS MANUAL

16-channel VHF FM Transceiver 136-150MHz 16-channel VHF FM Transceiver 150-174MHz 16-channel UHF FM Transceiver 400-440MHz 16-channel UHF FM Transceiver 450-470MHz The transceiver apply for the software of QXPG-36D Note: For avoiding mistakes, should read the data first, then program.

QUICK-OPERATION GUIDE

Page	ssing Innel 12 ess- oot.	ssing nnel 12 ess- oot.	ssing nnel 11 ress- oot.	ssing Innel 11 ress- oot.	ssing Innel 11 ress- oot.	essing annel 16(H). 11 cel by
Operation	Press [PTT] to switch ON and pressing for 5 seconds more. Turn the channel selector to channel 1 and save by press- ing [PTT] then switch OFF and reboot.	Press [PTT] to switch ON and pressing for 5 seconds more. Turn the channel selector to channel 2 and save by press- ing [PTT] then switch OFF and reboot.	Press [PTT] to switch ON and pressing for 5 seconds more. Turn the channel selector to channel 3 and save by press- ing [PTT] then switch OFF and reboot.	Press [PTT] to switch ON and pressing for 5 seconds more. Turn the channel selector to channel 4 and save by press- ing [PTT] then switch OFF and reboot.	Press [PTT] to switch ON and pressing for 5 seconds more. Turn the channel selector to channel 5 and save by press- ing [PTT] then switch OFF and reboot.	Press [MONI] to switch ON and pressing for 5 seconds more. Turn the channel selector to select VOX gain.1(L)-16(H). Save by pressing [PTT] while cancel by
Function	High Power	Low Power	OFF Reporting Number	Reporting Number in Chinese	Reporting Number in English	ХОХ

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SAFETY	It is important that the operator is aware or, and underst- ands.hazards common to the operation of any transceiver.	 Refer service to qualified technicians only. 	 Do not operate the transceive or charge a battery pack in explosive atmosphere (gases,dust,fumes,etc.). Do not modify or attempt to adjust this transceiver for 	 any reason. Do not expose the transceiver to long periods of direct sublicht nor place it close to bot appliances. 	 Do not place the transceiver in excessively dusty.humid, and/or wet areas,nor on unstable surface. If you find the transceiver with strange smell or 	smoking,please tum it off and move the batteries.	WARNING	Turn OFF the transceiver while taking on fuel or while parked in a gasoline service station.	
	Out of lock, programmable frequency over the fre- quency range of the tran- sceiver.	The voltage of battery is low. Please charge!	The voltage of battery is too low.Please charge at once!	Time-out timing warning Release [PTT] and retran- smit.	Busy channel lock has been set.	QT or DQT has been set.	VOX has been set.		

CONTENTS

UNPACKING AND CHECKING EQUIPMENT	÷
Standard/Optional Accessories	
How to charge	5
	9
ADVANCED OPERATION	10-11
VOX Function10	10
Voice Prompting Function	10-11
High/Low Power Switch Function	11
1	12-17
off scan or	12
Prior scall function How to set	12
Scan	12
scan	
Prior alert	14
How to set off alert and scan	15
Group Users	15
ne(S)	15
	16
	i.
Squelch Band	16
	17
CTCSS/DCS	17
SPECIFICATION	18-19
GUIDE	20-21
FREQUENCY CHART	1

UNPACKING AND CHECKING EQUIPMENT

Carefully unpack the transceiver. We suggest that you confirm the items listed in the following table before discardingthe packing material.If any items are missing or have been damaged during shipment, file a claim with the carrier immediately.

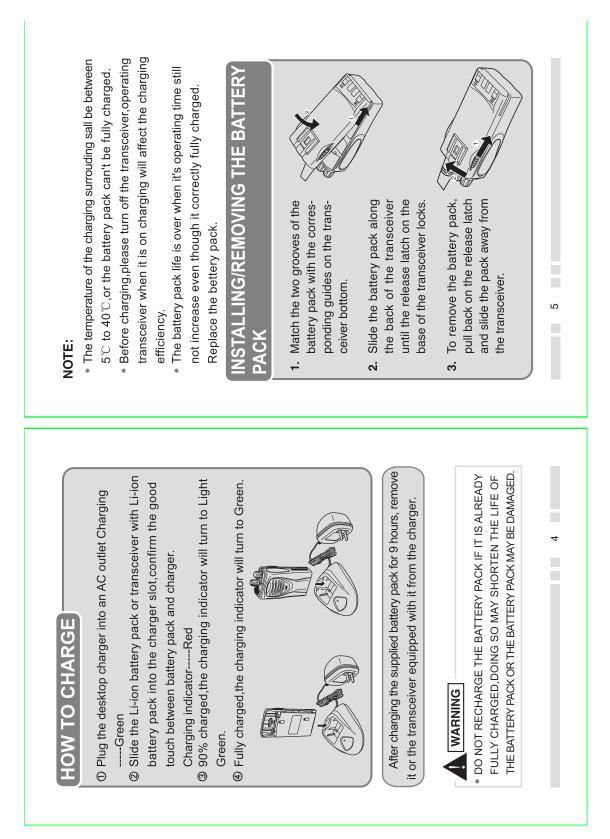
Standard Accessories

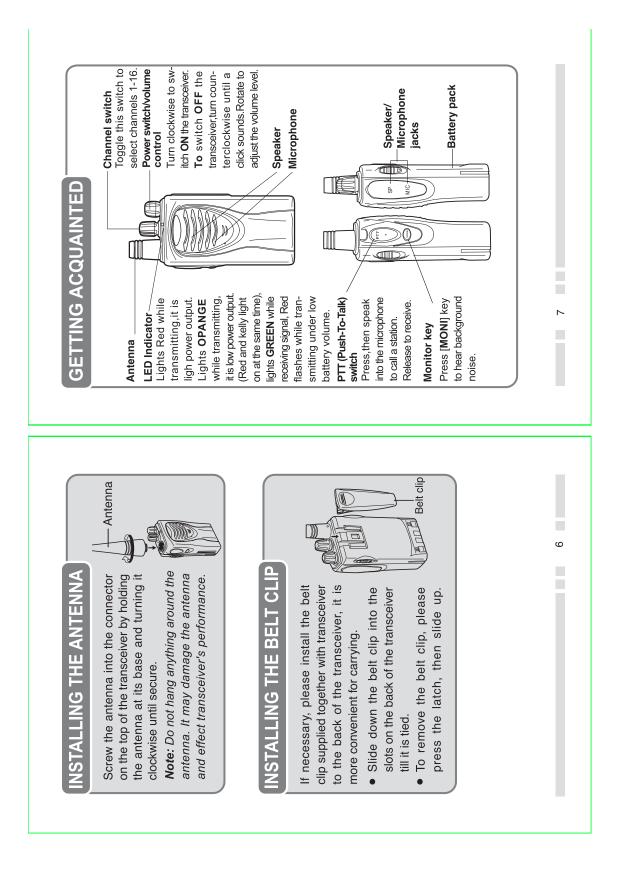
	ITEM	QUANTITY
	136-174MHz	
Antonna	350-390MHz	Ŧ
	400-470MHz	_
	470-512MHz	
Li-ion Desktop charger	op charger	-
Adaptor		Ļ
Li-ion batter	Li-ion battery pack 7.4V 1100mAh	1
Belt clip		-
Instruction manual	nanual	+

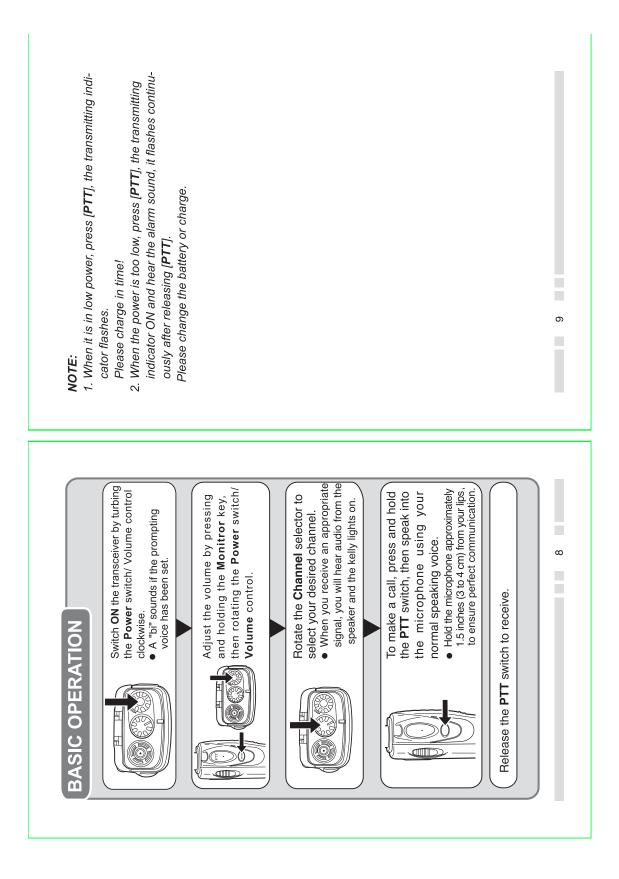
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PREPARATION Charding the I i-ion Battery Pack	The battery pack is not charged at the factory;charge it before use.Initially charge the battery pack after purchase or xetended storage (over 2 months) will not bring the battery	pack to its normal operating capacity.After repeated charge/ discharge cycle two or three times,the operating capacity	PLEASE USE THE SPECIFIED CHARGER, DO NOT DISASSEMBLY THE PATTERY PACK ALL DECULT CALLEED BY DIGAGGEMBLY	WITHOUT PERMISSION MUST BE BEAR BY THE USER ITSELF. • DON'T SHORT CIRCUIT THE BATTERY TERMINALS OR DISPOSE	OF IN FIRE. • DONT INSTALL THE BATTERY IN DANGEROUS SURROUNDING,	SPARK WILL CAUSE EXPLOSION.				
		charger Adaptor	Instruction manual	"(J.	Speaker/Mic (QME-02)	Programming Cable		Î	
Standard Accessories		Li-ion Desktop charger	Li-ion battery pack Belt clip	Optional Accessories		Speaker/Mic (QME-01)	Programming Software	0 ST-6.5-150V-1 ST-8.5-400V-1	0 ST-8.5-150V-2 ST-10-400V-2	High gain antenna







ADVANCED OPERATION

VOX function

VOX function can support handsfree communication. 16 levels for free choice to get used to different environment.

1.Switch ON VOX

Turn the Power/Volume switch to OFF, press [MONI] more than 5 seconds and turn off the transceiver, you will hear prompt sounds, now VOX function is ON when you release it. VOX sensitivity is the same as that set last time.

Set VOX sensitivity:

When VOX function is ON,turn the channel switch to the necessary value(different sensitivity step according to different surroundings); Press [PTT] to save the setting value (1L~16H) while VOX is OFF by pressing [MONI].

2.Switch OFF VOX

Turn Power/Volume switch to OFF.Press [MONI] more than 5 seconds.you will hear the prompt sounds then release the key.And press again to set off the VOX function.If you want to set on the function again,please repeat the procedure.

Voice Prompting Function

The transceiver provides with the Voice Prompting function. The speaker will sound for the current channel you choose. 1. Function option

Turn Power/Volume switch to ON.Press [PTT] for more than 5 seconds.Release [PTT] when hear the prompting,then enter the status of function option.

ADVANCED OPERATION

2. Voice prompting setting:

Enter the function status: turn the channel selector to choose the function you need. (1. High power: the red light ON; 2.Low power: the orange light ON; 3. Turn off the voice prompting function; 4. Voice prompting in English). You can choose among 3, 4, 5 and save by pressing [PTT]. Note: The functions can be chosen circularly.

3. Power off and restart then it will enter the finished setting.

High/Low power switch function

The transceiver spends a lot of battery capacity when it is in high power output. Choose low power output to save battery when in close communication. If the communicating distance is too far to choose highpower output to transmit.

- Enter the function status:switch OFF by turning the power/volume selector and press [PTT] to switch ON for more than 5 seconds then release it.
- Choose High/Low power in function status:turn the channel selector to choose the function you need (1. High power: the red light ON; 2.Low power: the yellow light ON; 3. Turn off the voice prompting function; 4. Voice prompting in Chinese; 5. Voice prompting in English). You can turn the channel selector to choose between 1-2 for High/Low power and save by pressing [PTT]. Note: The function can be chosen circularly.
 Power off and restart then it will enter the finished setting.

11

9

NUXILIARY OPERATION

Adopt QXPG-36D (software) and QXPL-01 (program cable) to program. How to set on/ set off scan and prior scan function.

Set "Scan/Shift" of CH1 to CH15 to be YES (at least one channel), then scan and prior scan is ON, these channels will be in scan list. Set "Scan/Deviation" of CH1 to CH15 to be NO, then scan and prior scan is OFF, and kick these channels out of scan list.

How to set

I. Please set "Scan/Shift" of CH1 to CH15 to be YES, then scanfunction is ON. 2.If you set "Scan/Shif" of CH 16 to be YES, then alert function is ON

3.The superior prior channel: "Scan/Shift" of channel CH1 to CH15 (at least one channel) was set to be YES, at this time if CH16 is programmed with frequency, then it is the most prior channel.

Scan

When CH16 is not programmed with frequency, turn the channel switch to be in CH16, it will scan CH1 to CH15 which is in scan list automatically, when receiving signal, then begin communication. Function: when receiving the efficient signal, open squelch autom atically to receive signal, within the power-saving duration (about 5 seconds), you can communicate with users under same channel, now the receiving party stay in CH16 to monitor all channels which "Scan/Shift" has been set to YES. As illustrate in the figure, CH4, CH5 and CH6 have been set to be YES, at this time if CH16 is empty,it will scan CH4, CH5 and CH6 in turn; When "Scan/Shift"

12

AUXILIARY OPERATION

of CH1 to CH15 are all set to be YES, it will scan CH 1 to CH15 in turn;When "Scan/Shift" of CH 1 to CH 15 are all set to be NO. ThenCH16 will sound a long "Du......" to remind you that scan function is OFF.

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EVEN PART INCOME								
								•
Summer	Н	Receive(MHz)	Transmit(MHz)	Rx Tone	Tx Tone	Bury	Scan/Shift	
Type 01-5108/3018		400.12500	400.12500	OFF	OFF	NO	NO	
Padd [THF1 ADLADMH+ V	~	440.87500	440.87500	OFF	OFF	NO	NO	
	-	469.87500	469.87500	OFF	OFF	0N	0N N	
Innetion Cattion	4	410.12500	410.12500	OFF	OFF	NO	ON	
9	'n	415.97500	415.97500	OFF	OFF	NO	ON	
inne Out Tinnet(s) 1805 👻	9	420.57500	425.67500	OFF	OFF	NO	NIS.	
	2	425.67500	430.97500	OFF	OFF	02	Q	
Step Tone Enable 💌	60	430.97500	435.77500	OFF	OFF	NO	NO	
	σ.	435.77500	440.22500	OFF	OFF	NO	NO	
iqueich Level 9	2	440.22500	445.67500	OFF	OFF	0N	0N N	
Acri 30.0ff Monentary V	=	445.97500	450.97500	OFF	OFF	NO	NO	
	12	450.97500	460.67500	OFF	OFF	NO	NO	
lattery Save Enable -	13	460.67500	465.87500	OFF	OFF	NO	NO	
	4	465.87500	465.87500	OFF	OFF	02	0Z	
Wide/namow Wide -	15	467.87500	467.87500	OFF	OFF	NO	NO	
	¥	469 87500	469 87500	110	OFF	ON	UN	U

Prior Scan

MUM

 When CH16 is programmed with frequency, and "Scan/Shift" of CH16 is set to be NO, then CH16 become prior scan channel, it will scan from CH1 to CH15 which have been set to be YES, and then scan CH16, work like the following: CH16,CH4, CH16, CH5, CH16 and CH6.

 When CH16 is programmed with frequency, and "Scan/Shift" of CH16 is set to be NO, then no matter which channel from CH1 toCH15 which "Scan/Shift" have been set to be YES you are in, It will scan CH16 and the channel which the user stay in alternatively.

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While not scanning the channel which "Scan/Shift" have been

with other users whose "Scan/Shift" have been set to be YES, Function: When the user is in CH16, he can press PTT to talk set to be NO.

as well as monitor them.

		同間							
Type Setting		CH	Receive OAPLO	Transditted for Tone	Hz Tone	TarTool	Bury	Scan/Shift	•
11012 +441		-	400 12500	400.12500	110	017	NO	NO	ř
Piete Incr.a	THE AD COMPANY		440.87500	440.17500	017	059	100	NO	-
		-	463 27500	469.177500	110	017	NO	80	-
Barbar Come		4	410.12500	410.12500	057	OFF	NO	910	-
		**	415 97500	415.97500	017	017	NO	NO	-
Time Out Time(c)	111 N	+	420.57500	425.67500	OFF.	OFF	0N	YES	-
		-	425.67500	430.97500	017	017	9	NO	-
Beq.Tune	India .		430.97500	435,77500	017	017	NO	NO	-
			#35.77500	440.22500	0FF	012	014	NO	-
Squatters		2	443 22500	445.67500	017	440	100	310	-
Man Dolla	ACCENTING AND ADDREED	11	a45.97500	450.97500	OFF	055	80	NO	-
		1	453.97500	460.67500	017	017	Q2	NO	-
Butters Dave	Eachto .	113	460 67500	465.17500	OFF	077	NO	NO	-
	Man and	14	445 87500	465.87500	017	017	02	80	-
Widelman	Nute I	•	447 87500	467.17500	990	OFF	NO	910	-
		114	463.17500	469.17500	OFF	010	C NO		Ē

Prior Alert

When CH16 is programmed with frequency, and "Scan/Shift" of press [MONI] key to exit, and communicate in the frequency of CH16 is set to be YES, then when it receive signal, it will alert,

CH16.

Although TT 2010201 (1) TT 2010201 (1) TT 2010201 (1) TT 20102 (1)	Receive(MHr) Transmit(MHr) By Tone				
Allocate I I O 9 0.0.0.0000 1 2 40 9 0.0.0000 1 4 1 4 0 1 1 2 4 1 4 0 1 1 2 2 1 4 1 1 4 1 1 4 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 <th></th> <th>D Far Tone</th> <th>The Tree</th> <th>Bury.</th> <th>Sean/Shift</th>		D Far Tone	The Tree	Bury.	Sean/Shift
P1 at 0. criteria = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 =	400.12500	017	440	200	100
	443.37500	067	OFF	010	300
at (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	463 27500	OFF	017	0N	NO.
00 [15a 1]	410.12500	OFF	440	NO	NO.
0() [title 1] 1 [flactile 1] 1 [flac	415.97500	077	OFF	NO	NO
[India 1]	425.67500	017	017	NO	783
Endia w 1	433.97500	OFF	OFF	NO	360
	435 77500	on	440	010	NO
11	442.22500	OFF	055	NO	340
AL AND	445.67500	440	440	0N	NO
	450.97500	OFF	646	010	200
6	463 67500	440	440	NO	100
Bathere Earthor w 13 442 67500	465 87500	017	240	202	200
	465 87500	007	OFF	810	340
Withshame With 1 15 417 17500	467.87500	orr	017	NO	20
16 469 27500	469.27500	OFF.	OFF	NO	100 E

15

4

AUXILIARY OPERATION

If alert and scan functions is ON, and often get disturbance, the How to set off alert and scan

users can set off alarm & scanning as following:Set the "Scan/ Shift" of CH1 to CH16 to be NO, and enter the frequency and CTCSS. Group Users

E.g. Divide 50 people into five groups A,B,C,D and E. and the channel: Any member of the groups just switch to corresponding corresponding channels from CH1 to CH5. The "Scan/Shift" of "Scan/Shift" of CH16 to be NO. Then we can operate as following: Group talk: Any member of the groups just switch to CH16, then press PTT to talk with all other members successfully. Talk to one all five channels have been set to be YES(prior channels), set channels of group A, B, C, D and E, then you can talk with one specific groups. E.g.: If group A wants to talk with group D, then just switchto the same channel as group D, then can talk with each other.

Note:

When programming the transceiver, CH 16 should set with CTCSS, especially when "Scan/Shift" is set to be YES. In order not to get disturbance from same channels.

Time Out Time(s)

the transceiver will stop transmitting and a tone of "bi" will sound. Release the [PTT] to stop the tone.When you press it again, it will resume to transmit.(The length of the time is set by the sof-The purpose of the time-out timer is to prevent any signal person nuously tra-nsmit more than the programmed time set by dealer, from using a channel for an extended period of time if you contitware of dealer.)

AUXILIARY OPERATION

Battery save

The battery save function decreases the amount of power used when a signal is not being received or no operations are being performed (without pressing turning the switch)The function will be stared up when the channel is not engaged or no operation for more than 5 seconds.Whenreceiving signals and operation,the function will be turned off automatically.(set **ON/OFF** the function by the software of dealer)

Low battery warning

Low battery warning alerts you when the battery needs to be recharged. While transmitting, if the battery power goes below a predetermined value, the indicator will flash. When a tone of "bi" sounds, the transceiver will stop transmitting. Please change the battery or recharge it.

Busy channel locked (Busy)

It can prevent from the in terference with other radio used the same channel when swith on the function.When the channel is occupied, press[PTT], a warning tone will be heard and back to receiving status.

It can make speaker mute. The squelch level decide when the squelch should be **ON/OFF**. If squelch level is too high, then you can not get weak signal: if the squelch level is too low, the user will get noise and keep receiving squelch level can be set from to 9.

AUXILIARY OPERATION

Wide/Narrow Band

You can set wide/narrow band of the transceiver.

Note: The communication between the transceiver with wide band and the transceiver with narrow bnad, the voice volume is great with distortion. The squelch RF is easy to turn off according to the increasing voice. The communication between the transceiver with narrow band and the transceiver with wide band, the voice volume is low with great noise.

Prompt

Switch ON/OFF of the function.(The function covers all the prompt of the transceiver.)

CTCSS/DCS

Some channels may have pre-programmed **CTCSS** tones by dealer. a **CTCSS** tone is a subaudible tone which allows you to ignore (not hear) calls from other parites who are using the same channel. When you receive a signal that has a tone diferent from the one set up in your transceiver, you will not hear the signal. Likewise, signals that you transmit will only be heard by parties whose **CTCSS** tone matches the tone set up in your transceiver.

Note: Althouth using channels set up with CTCSS tones relieves you from listening to unwanted calls, it does not mean your calls will be confidential.

17

16

SPECIFICATION

	136-174MHz
Frequency Range	350-390MHz
	400-470MHz
	470-512MHZ
Using Temperature	-20°C to +55°C
Frequency Synthesization	PLL
Rated Voltage	DC 7.4V Li-ion battery pack)
Memorial Channel	16 channels
Antenna Collocation	Wide Band 8 High Gain Antenna(Special)
Antenna Impedance	50 Ω
Working Way	Single-duplxe in same channel Single-duplex in different channel
Grounding	Cathode
Size	51X100X28 (including battery pack)
Weight	215g including battery pack and antenna

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	5
	Ш
	5

Power output	Hith Power:4W
Modulation	FM
Max. Freq. Deviation	±5KHz
Residual Wave Radiation	<-65dB
Pre-emphasis	6dB
Transmitting Current	< 1400mA

Receiver	
Sensitivity	Wide Band: <0.18µV Narrow Band: <0.25µV (12dB SINAD)
Squelch Sensitivity	<0.18µV
Inter Modulation Interference	GodB
Audio Power	> 400mV
Receiving Current	< 200mA
Squelch Standby	20mA
Note: No further advise for changing specification.	hanging specification.

ROUBLE SHC	TROUBLE SHOOTING GUIDE
Trouble phenomenon	Shooting method
There is no sound after using the earphone for a period	 Something wrong with ear bud (Send it to distributor for reparation)
Communication distance	 Whether the antenna and its connector is complete.
uoser and serisitivity weaker.	 Whether set to be in low power. (Send it to distributor for reparation)
It can receive but not transmit	 Check PTT key. (Send it to distributor for reparation)
Power off often	Check whether the connector of battery is complete
The voice is too low, and often cut off	• Check whether the MIC jack is block with something.(Send it to distributor for reparation)
Receiving signal unconsciously, and with big noise	 Out of communication distance. Block with high buildings. Use it in the underground building (Send it to distributor for reparation)
Speaker with "ka ka" sound after using for a period of time.	• Check whether there is something on the cover of speaker.(Send it to distributor for reparation)
No sound from speaker	 Check whether it is in Min volume (Send it to distributor for reparation)

Trouble phenomenon	Shooting method
No power	 Maybe out of battery, please charge or replace new battery. Maybe the battery is not correctly installed, try again.
Unable to talk with others in the group	 Check whether the Frequency and CTCSS is same as that of other members Whether other members are in valid communication distance of transceivers
There is disturbance from other members	 Please modify CTCSS, also signal order of other members. Modify to work in other frequency.
The battery life is short even after correctly charged.	 The battery's life is over, replace with a new one.
The transceiver can't scan	• The channels are not in scan list (set by professional staff)
Noisy after being programmed	 Squelch is open when programming, non-professional users please do not modify parameters causally.
Some regulated"da da da"sounds after being programmed	 Some errors happen when program it. Maybe it is out of working frequency range.

erial N	Serial Number:					
U U U	Receive (MHz)	Transmit (MHz)	Rx Tone	Tx Tone	BCL (busy)	Scan/ Shift
-						
5						
e						
4						
5						
9						
2						
8						
6						
0						
÷						
12						
13						
14						
15						
16						