

FC APPROVED

SoonTone®

Working Frequency:

66~88MHz
136~174MHz
400~440MHz
400~480MHz
440~480MHz
450~490MHz

SoonTone®

ST-3308 Professional
FM Transceiver

USER'S MANUAL

THANK YOU

*We are grateful you chose **SoonTone**[®] for your land mobile radio applications. We believe this easy-to-use transceiver will provide dependable communications to keep personnel operating at peak efficiency.*

***SoonTone**[®] transceivers incorporate the latest in advanced technology. As a result, we feel strongly that you will be pleased with the quality and features of this product.*

MODELS COVERED BY THIS MANUAL

ST-3308:16-channel VHF FM TRNACEIVER 66~88MHz

ST-3308:16-channel VHF FM TRNACEIVER 136~174MHz

ST-3308:16-channel UHF FM TRNACEIVER 400~440MHz

ST-3308:16-channel UHF FM TRNACEIVER 400~480MHz

ST-3308:16-channel UHF FM TRNACEIVER 440~480MHz

ST-3308:16-channel UHF FM TRNACEIVER 450~490MHz

The transceiver apply for the software of QXP6-68D

Note: For avoiding mistakes, should read the data first, then program.

TIPS FOR QUICK OPERATION

Side 1 Key and Side 2 Key can be programmed as one of following assistant functions. For example, if you programme Side 1 Key or Side 2 Key as 'KEYLOCKING', you just need to press Side 1 Key or Side 2 Key then KEYLOCKING function will be activated immediately.

Function	Method	REF TO
keylock	press set side eky	page 18
keylock(optional)	press set side eky	page 18
monitor	press set side eky	page 18
momentary monitor	press set side eky	page 18
N/A	side 1 key	N/A
momentary squelch off	side 1 key	page 18
squelch off	press set side eky	page 18
scan	press set side eky	page 19
scan+temporary delete	press set side eky	page 19
temporary delete	press set side eky	page 20

VOX	Install loudspeaker/microphone; Press Side 1 Key, turn the radio on; Press Side 1 Key or Side 2 Key then select Gain(Level 1-10); Press PTT button to save; Turn off the radio then restart.	page 16
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PROMPTION

Indicator RED flashes while transmitting but it can still communicate	Low battery, need to be charged
"Beep beep" sounds at intervals	1. Out of lock 2. Programmed frequency is out of the range of transceiver
"Beep" sounds continuously	"Beep" sounds continuously
Indicator RED flashes, "Beep" sounds then stop transmitting	Low battery, need to be charged
The loudspeaker sounds "Beep..." continuously after transmit for a while, and then stop.	TOT function is ON, please release [PTT]
After a period of transmitting, a prompting voice sound and then stop transmitting.	TOT alert is ON
Receiving signal from other transceiver, Kelly indicator in ON, press [PTT] , and "Beep..." sounds heard, then return to receive signal.	Set BCL function

PRECAUTION

For using this device with high safety and efficiency, please read the following information carefully:

- Repairing is only for qualified technicians; Please do not disassemble the transceiver causally.
- Do not modify the transceiver causally.
- Power OFF when enter into the flammable and explosive places.
- Please do not change or charge the battery when under the flammable and explosive environment.
- Please power OFF the transceiver before entering the explosive and detonators areas.
- To avoid the problem caused by electromagnetism interfering or compatibility, please power OFF when you are enter into the places where is not allowed to use the transceivers, such as hospitals and airplanes.
- Please put the device out of the range of the extension of the airbag in the car.
- Do not expose the transceiver under sunshine for a long time, nor place it close to heating appliances.
- Please keep the antenna at least 2.5cm far away from you when transmitting.
- Do not put the device into the dusty, humid and wet areas, nor put it into the rough surface.
- If the device smelled abnormally or smoking, please power OFF at once, and take out the battery, then contact with the local distributor.

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UNPACKING AND CHECKING EQUIPMENT

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

SUPPLIED ACCESSORIES

<i>Item</i>		<i>Quantity</i>
Antenna	66~88MHz	1
	136~174MHz	
	400~440MHz	
	400~480MHz	
	440~480MHz	
	450~490MHz	
Battery Charger		1
Adaptor		1
Battery (1200mAh)		1
Belt Clip		1
Screws		1
Hand Strap		1
Speaker/microphone jack cover		1
Instruction Manual		1

STANDARD ACCESSORIES



Antenna



Battery Charger



Adaptor



Battery (1200mAh)



Belt Clip



Screws



Hand Strap



Speaker/microphone
jack cover



Instruction
Manual

Optional Accessories



Headset



Speaker/Mic (QME-01)



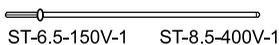
Speaker/Mic
(QME-02)



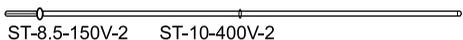
Programming Software



Programming Cable



ST-6.5-150V-1 ST-8.5-400V-1



ST-8.5-150V-2 ST-10-400V-2

High gain
antenna

BATTERY

NOTE

Please charge the battery before you use it, because it was uncharged against delivery. The first charging after purchasing or keeping for more than 2 months without using cannot achieve normal battery capacity. After repeating the charge/discharge for 2 or 3 times, the battery can get to the best performance. Please charge or charge the battery if low power.

- Please use the specific charger, other models may cause explosion and lead to hurt the body.
- Do not short circuit the battery or put it into fire, nor remove the housing of the battery.
- The ambient temperature should between 5°C and 40°C while charging. Otherwise, it may not fully charge.
- Power OFF the transceiver with battery while charging. Using the device while charging would affect normal charging.
- To avoid interfering the charging, please do not cut off the power or take out the battery during charging.
- The battery life will be over soon when its operating time decreases even though it is fully and correctly charged. Please replace the battery.
- Please do not take out the battery and recharge it after it was fully charged, otherwise the battery would be damaged

or the life would be shorten.

- Please do not charge when the battery or the transceiver is damped. Do it before wipe it up to avoid the hazard.

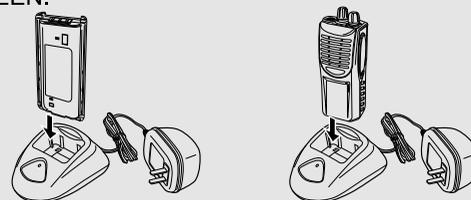
Warning

When jewelry, keys or ornamental chain and other electric metals contact with the battery terminal, the battery may cause damage or hurt bodies. If the battery terminal short-circuit it will generate a lot of heat. Please be careful when you bring or use the battery, especially put it into the pocket, purse or other metal container.

HOW TO CHARGE

The method of charging Li-ion battery

1. Plug the power adaptor into the AC outlet.
2. Plug the Li-ion battery pack into the charger.
 - ◆ The charger indicator on GREEN.
3. Plug the Li-ion battery pack or transceiver with a Li-ion battery pack into the charger.
 - ◆ Make sure the battery is connected with the charging terminal;
 - ◆ When charging, the indicator turns to RED.
4. When it is 90% charged (about 3.5 hours charging) the indicator turns to LIGHT GREEN (and needed 1 hours charge).
5. About 1 hours later, it is fully charged, the indicator turns to GREEN.



After charging the supplied battery for 8 hours, remove it or transceiver equipped with the battery from the charger.

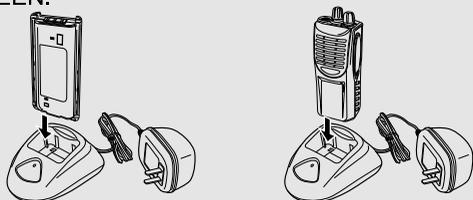
WARNING

- ◆ Please do not recharge the battery after it was fully charged, otherwise the battery would be damaged or the life would be shortened.

HOW TO CHARGE

The method of charging Ni-MH battery

1. Plug the power adaptor into the AC outlet.
2. Plug the Ni-MH battery pack into the charger.
 - ◆ The charger indicator on GREEN.
3. Plug the Ni-MH battery pack or transceiver with a Li-ion battery pack into the charger.
 - ◆ Make sure the battery is connected with the charging terminal;
 - ◆ When charging, the indicator turns to RED.
4. When it is 90% charged (about 3 hours charging) the indicator turns to LIGHT GREEN (and needed 4 hours charge).
5. About 4 hours later, it is fully charged, the indicator turns to GREEN.



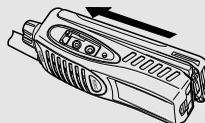
After charging the supplied battery for 8 hours, remove it or transceiver equipped with the battery from the charger.

WARNING

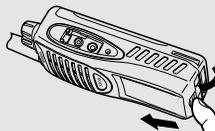
- ◆ Please do not recharge the battery after it was fully charged, otherwise the battery would be damaged or the life would be shortened.

INSTALLING / REMOVING THE BATTERY PACK

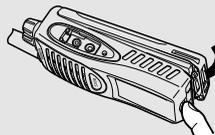
NOTE: Do not short circuit the battery or put it into fire. Do not remove the housing of the battery.



1. Align the battery pack with the back of the transceiver, then press the battery pack and transceiver firmly together until the release latch on the base of the transceiver locks.



2. To remove the battery pack, lift the safety catch on the base of the transceiver, then press the release latch underneath the safety catch.



3. While pressing the release latch, pull the battery pack away from the transceiver.

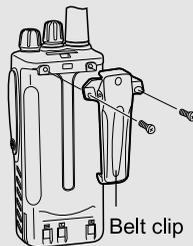
INSTALLING THE ANTENNA



Screw the antenna into the connector on the top of the transceiver holding the antenna at its base and turning it clockwise until secure.

Note: The antenna is neither a handle a key ring retainer, nor a speaker/ microphone attachment point. Using the antenna in these ways may damage the antenna and degrade your transceiver's performance.

INSTALLING THE BELT CLIP



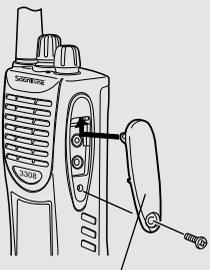
If necessary, attach the belt clip using the two supplied 3x8 mm screws.

Note: If the belt clip is not installed, its mounting location may get hot during continuous transmission or when left sitting in a hot environment.

CAUTION

Do not use glue which is designed to prevent screw loosening when installing the belt clip, as it may cause damage to the transceiver. Acrylic ester, which is contained in these glues, may crack the transceiver's back panel.

INSTALLING THE COVER OVER THE SPEAKER/MICROPHONE JACKS

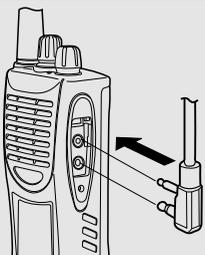


Speaker/microphone
jack cover

If you are not using a speaker/microphone, install the cover over the speaker/microphone jacks using the supplied 3x6mm screw

Note: To keep the transceiver water resistant, you must cover the speaker/microphone jacks with the supplied cover.

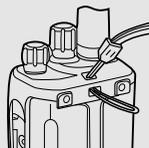
INSTALLING THE OPTIONAL SPEAKER/MICROPHONE (OR HEADSET)



Insert the speaker/microphone (or headset) plugs into the speaker/microphone jacks.

Note: The transceiver is not fully water resistant while using the speaker/microphone

INSTALLING THE HAND STRAP

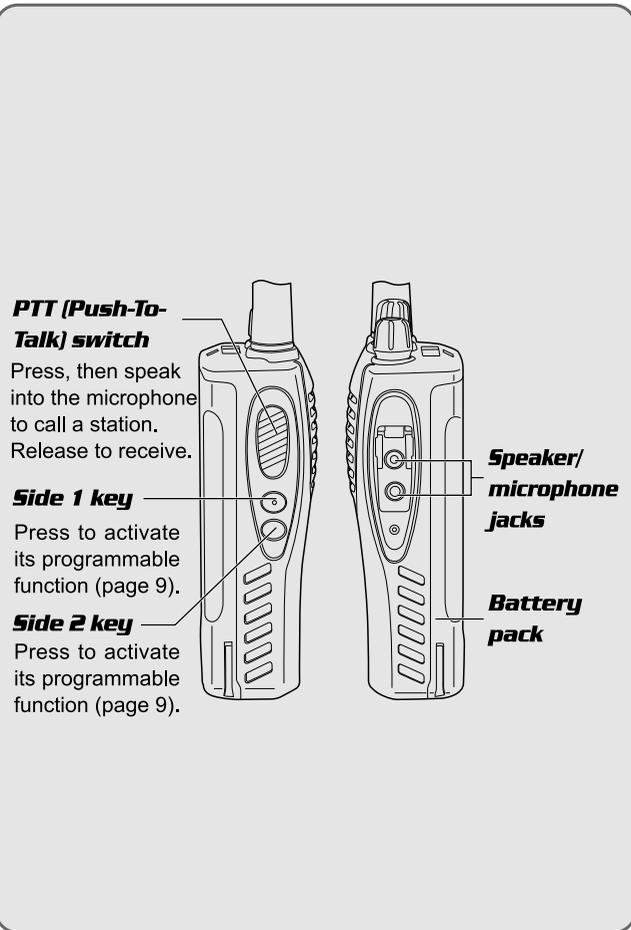
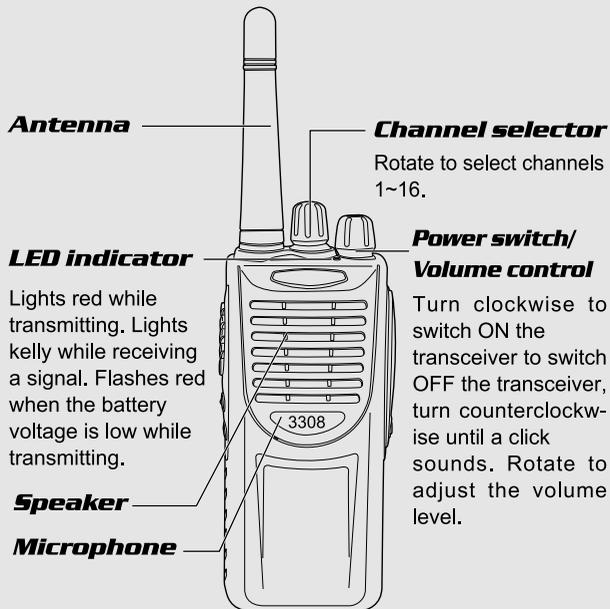


1. Slide the small loop of the hand strap through the eyelet on the upper rear of the transceiver.



2. Pull the entire hand strap through the small loop to secure the hand strap in place.

GETTING ACQUAINTED

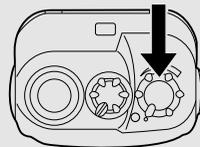


PROGRAMMABLE AUXILIARY FUNCTIONS

Your dealer can program each of the **Side 1** and **Side 2** keys with one of following auxiliary functions. Refer to their descriptions, starting on page 16.

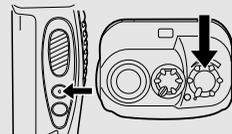
- Key Lock
- Key Lock (with Backup)
- Monitor
- Monitor Momentary
- None (No function) (default setting for **Side 1** key)
- Scan
- Scan + Temporary Delete
- Squelch Off
- Squelch Off Momentary (default setting for **Side 2** key)
- Temporary Delete

BASIC OPERATIONS

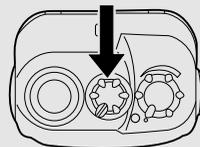


1. Turn the **Power switch/Volume** control clockwise to switch the transceiver power ON.

- A beep sounds if enabled by your dealer.

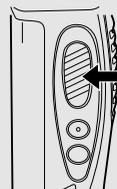


2. Press the key programmed with the **Monitor** or **Squelch Off** function to hear background noise, then rotate the **Power switch/Volume** control to adjust the volume.



3. Rotate the **Channel** selector to select your desired channel.

- When you receive an appropriate signal, you will hear audio from the speaker.



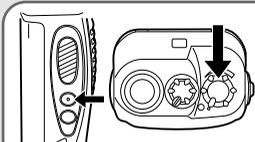
4. To make a call, press and hold the **PTT** switch, then speak into the microphone using your normal speaking voice.
 - Hold the microphone approximately 1.5 inches (3 to 4 cm) from your lips.
5. Release the **PTT** switch to receive

ADVANCED OPERATIONS

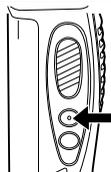
VOX operation allows you to transmit hands-free. This feature must first be activated by your dealer, and can only be used if you are using a supported headset. When operating VOX, you must set a VOX Gain level. This setting allows the transceiver to recognize sound levels. If the microphone is too sensitive, it will begin transmitting when there is noise in the background. If it is not sensitive enough, it will not pick up your voice when you begin speaking. Be sure to adjust the VOX Gain level to an appropriate sensitivity to allow smooth transmission. To activate VOX and set the VOX Gain level, perform the following steps:



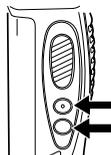
1. Connect the headset to the transceiver (page 10).
 - The VOX function does not activate when a headset is not connected to the accessory terminal of the transceiver.



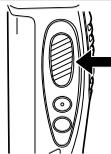
2. With the transceiver power OFF, press and hold the Side 1 key while turning the transceiver power ON.



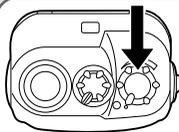
3. Continue to hold the **Side 1** key until a beep sounds.
 - The LED indicator lights orange.
 - When the **Side 1** key is released, the transceiver announces the VOX Gain level.



4. Press the **Side 1** key to increase the VOX Gain level and the **Side 2** key to decrease the level.
 - The VOX Gain can be adjusted from levels 1 to 10 and OFF.
 - The transceiver announces the VOX Gain level as you adjust it. If OFF is selected, a beep sounds.



5. Press the **PTT** switch to save the setting.
 - A beep will sound.
 - The transceiver announces the new VOX Gain level.



6. Turn the transceiver power OFF and ON again to activate VOX.

NOTE

- ◆ If a speaker/microphone is connected to the transceiver while the VOX function is switched ON and the VOX Gain level is configured to a higher, more sensitive level, louder received signals may cause the transceiver to start transmission.
- ◆ When you operate the VOX function, you must use an optional QME-01 or QME-02 accessory.

ADVANCED OPERATIONS

The following functions are programmable by your dealer, as described on page 13.

KEY LOCK

Press and hold the key programmed as **Key Lock** for 1 second to lock/unlock the transceiver keys. The following keys/functions can still be used when Key Lock is activated: Key Lock, Monitor, Monitor Momentary, PTT, Squelch Off, Squelch Off Momentary and Volume. If the key is programmed" with backup", when the transceiver is turned OFF and then turn ON again, the keys remain locked.

Otherwise, when the transceiver power is turned OFF and then ON again, the Key Lock function will be cancelled.

MONITOR/SQUELCH OFF

You can use the key programmed as **Monitor** or **Squelch Off** to listen to weak signals that you cannot hear during normal operation, to deactivate channel signalling, and to adjust the volume when no signals are present on your selected channel.

- **Squelch Off:** Momentarily press to hear background noise.
Press the key again to return to normal operation.
- **Squelch Off Momentary:** Press and hold to hear background noise. Release to return to normal operation.

ADVANCED OPERATIONS

- **Monitor:** Press to turn off QT, DQT Signal, Press the key again to return to normal operation.
- **Monitor Momentary:** Press to turn off QT, DQT Signal, Release the key to return to normal operation.

SCAN

Scan is useful for monitoring signals on every channels. When scanning, the transceiver checks for a signal on each channel and only stops if a signal is present. The transceiver will stay in the channel with signal until the signal is no longer present. Your dealer programs the delay time between signal drop-out and Scan resumption. If a signal is received during the delay time, the transceiver will stay in the same channel.

NOTE

You can only use Scan if your dealer has programmed at least 2 channels and they are not locked out of Scan.

To start scanning, momentarily press the key programmed as either Scan or **Scan + Temporary Delete**.

- Scanning starts from the current channel and ascends through the channel numbers.
- The kelly LED indicator flashes.
- When a signal is received on a channel and signalling matches, the kelly LED indicator lights.

ADVANCED OPERATIONS

To end Scan, press the **Scan** or **Scan + Temporary Delete** key again.

Prior Scan

If enabled, a prior channel can be set as following:

- Your dealer may set up a fixed priority channel on your transceiver.
- **Priority + Talkback:** If your dealer has programmed a Priority channel, it is main channel. However, the transceiver also transmits on the channel, which stops scanning.
- Before scanning, you can choose your own prior channel, the dealer can set delay time between disappearance of signal and resumption of scanning.

Temporary Delete

If a key is programmed with the **Temporary Delete** or **Scan + Temporary Delete** function, you can temporarily remove specific channels from the scanning list during Scan. When Scan stops at a channel, you can remove that channel from the scanning list by pressing and holding the key programmed as **Temporary Delete** or **Scan + Temporary Delete** for 1 second.

- You cannot delete the Prior channel, if it has been set up.
- You cannot delete a channel if there are less than 2 channels available for scanning remaining.

ADVANCED OPERATIONS

- To add the channel back into the Scan list, simply exit Scan mode or switch the transceiver OFF and then ON again.

Main Channel

During Scan, pressing **PTT** will cause transmit in main channel. Your dealer can program the main channel as following methods:

- **Selected:** The last channel selected is assigned as the new main channel.
- **Selected + Talkback:** If the channel has been changed during Scan, the newly selected channel is assigned as the new main channel. However, the transceiver also transmits on the channel where Scan is currently paused.
- **Priority:** If your dealer has programmed a Prior channel, it is main channel.

AUXILIARY OPERATIONS

Program through QXPG-68D (software) and QXPL-01 (cable)

TIME-OUT TIMER (TOT)

The purpose of the Time-out Timer is to prevent any caller from using a channel for an extended period of time. If you continuously transmit for a period of time that exceeds the programmed time set by your dealer (default is 3 minutes), the transceiver will stop transmitting and an alert tone will sound. To stop the tone, release the **PTT** switch. Your dealer can program a warning function to alert you before the TOT expires. Continuously transmitting for the time specified by your dealer will cause the warning tone to sound.

BUSY CHANNEL LOCKOUT (BCL)

When activated, BCL prevents you from interfering with other parties who may be using the same channel that you selected.

Pressing the **PTT** switch while the channel is in use will cause your transceiver to emit an alert tone and transmission will be inhibited (you cannot transmit). Release the **PTT**

NOTE

Ask your dealer for an explanation on how BCL functions when using QT, DQT.

AUXILIARY OPERATIONS

LOW BATTERY WARNING

Low Battery Warning alerts you when the battery needs to be recharged or replaced.

While operating the transceiver, if the battery power becomes low, an alert tone will sound every 30 seconds and the LED indicator will blink red. Replace or recharge the battery pack.

VOICE PROMPT CHANNEL NUMBER

When the user finishes select one specific channel, there will be a voice prompt channel number you choose (Chinese, English or off this function are all available)

PROMPTING

The dealer will set ON/OFF voice prompting function.

SQUELCH

It is use to mute the loudspeaker when there is no signal; when squelch on, you will hear the background noise, when squelch off, you will no hear noise.

BATTERY SAVE

If activated by your dealer, the Battery Save function will decrease the amount of power used when a signal is not being received and no operations are being performed (no keys are being pressed, and no switches are being turned). While the channel is not busy and no operation is performed for 5 seconds, Battery Save turns ON. When a signal is received or an operation is performed, Battery Save turns OFF.

AUXILIARY OPERATIONS

WIDE/NARROW BAND

The user can set transceiver to work both in wide/ narrow band freely. High volume but big distortion when the transceiver with wide band talk to the transceiver with narrow band, and squelch switches OFF as the increasing of volume; Low volume but large noise when the transceiver with narrow band talk to the transceiver with wide band.

HIGH/LOW POWER

For transmitting in high power, large waste in battery, thus it doesn't need high power in short distance communication, we can choose low power to save battery, while we use high power when it is in long distance communication. The dealer set each channel transmits in HIGH/LOW Power.

QT / DQT

Your dealer may have programmed QT or DQT signalling on your transceiver channels. A QT tone/DQT code is a subaudible tone/code which allows you to ignore (not hear) calls from other parties who are using the same channel. When a channel is set up with a QT tone or DQT code, squelch will only open when a call with a matching tone or code is received. Likewise, signals that you transmit will only be heard by parties whose QT/DQT signalling matches yours. If a call with a different tone or code is made on the same channel you are using,

AUXILIARY OPERATIONS

squelch will not open and you will not hear the call. This allows you to ignore (not hear) these calls. Although it may seem like you have your own private channel while using QT/DQT, other parties can still hear your calls if they set up their transceiver with the same tone or code as you do.

SPECIFICATION

Specification

Frequency Range	66~88MHz
	136~174MHz
	400~440MHz
	400~480MHz
	440~480MHz
	450~490MHz
Working Temperature	From -20°C to + 55°C
Frequency Synthesization	PLL
Working Voltage	DC 7.4V
Number of Channels	16 Channels
Antenna Configuration	Coil loaded antenna
Antenna Impedance	50Ω
Working Way	Simplex in same channel
	Simplex in different channel
Grounding	Cathode
Size	142 x 57 x 41mm
Weight	267g (Including battery and antenna)

Transmitter

Power Output	High Power : 5W
	Low Power : 1W
Modulation	FM (frequency modulation)
Max. Frequency Deviation	Wideband: $\leq \pm 5\text{KHz}$
	Narrowband: $\leq \pm 2.5\text{KHz}$
Residual Wave Radiation	$\leq -65\text{dB}$
Pre-emphasis	6dB
Transmitting Current	High Power : <1500mA
	Low Power: <800mA

Receiver

Sensitivity (12dB SINAD)	Wideband: <0.18μV
	Narrowband: <0.25μV
Squelch Sensitivity	<0.18μV
Intermodulation Interference	60dB
Audio Power	$\geq 500\text{mW}$
Receiving Current	$\leq 200\text{mA}$
Squelch Standby	20mA

Sorry for no further advise for changing the specification.

TROUBLE SHOOTING GUIDE

Trouble phenomenon	Shooting method
No power	<ul style="list-style-type: none"> ● 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 same group	<ul style="list-style-type: none"> ● 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	<ul style="list-style-type: none"> ● Please modify CTCSS, also signal order of other members. ● Modify to work in other frequency.
The battery life is short even after correctly charged.	<ul style="list-style-type: none"> ● The battery's life is over, replace with a new one.
The transceiver can't scan	<ul style="list-style-type: none"> ● The channels are not in scan list (set by professional staff)
Noisy after being programmed	<ul style="list-style-type: none"> ● Squelch is open when programming, non-professional users please do not modify parameters casually.

Some regulated "da da da" sounds after being programmed	<ul style="list-style-type: none"> ● Some errors happen when program it. Maybe it is out of working frequency range.
There is no sound after using the earphone for a period	<ul style="list-style-type: none"> ● Something wrong with ear bud (Send it to distributor for repair)
Communication distance closer and sensitivity weaker.	<ul style="list-style-type: none"> ● Whether the antenna and its connector is complete. ● Whether set to be in low power. (Send it to distributor for repair)
It can receive but not transmit	<ul style="list-style-type: none"> ● Check PTT key. (Send it to distributor for repair)
Power off often	<ul style="list-style-type: none"> ● Check whether the connector of battery is complete
The voice is too low, and often cut off	<ul style="list-style-type: none"> ● Check whether the MIC jack is block with something. (Send it to distributor for repair)
Receiving signal unconsciously, and with big noise	<ul style="list-style-type: none"> ● Out of communication distance. ● Block with high buildings. ● Use it in the underground building (Send it to distributor for repair)
Speaker with "ka ka" sound after using for a period of time.	<ul style="list-style-type: none"> ● Check whether there is something on the cover of speaker. (Send it to distributor for repair)
No sound from speaker	<ul style="list-style-type: none"> ● Check whether it is in Min volume (Send it to distributor for repair)

FREQUENCY CHART

Model: _____

Series: _____

Channel	Receiving Frequency	Transmitting Frequency	QT/DQT Decode	QT/DQT Encode	Output Power	Wide/Narrow	Scan
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							