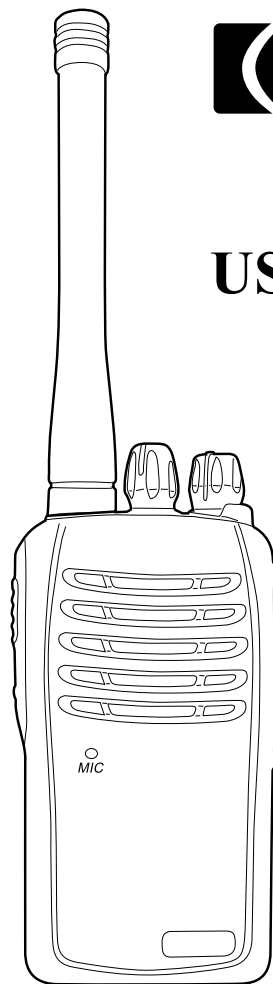




## USER'S MANUAL



### **CG-325**

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- 1300mA Li-ion
- PC Programmable
- Wired Clone
- Voice Annunciation

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## 1 SAFETY INFO

### NOTE TO THE USER

- Illegal operation is punishable by fine or imprisonment or both.  
Refer service to qualified technicians only.

### SAFETY

- It is important that the operator is aware of and understands common hazards to the operation of any transceiver.
- We do not guarantee the safety and operation of the transceiver when using accessories and /or attachments not sold by us.

### WARNING

- EXPLOSIVE ATMOSPHERES(GASES, DUST, FUMES, etc. )  
Turn off your transceiver while taking on fuel, or while parked in gasoline service stations.

### ▲ PRECAUTIONS

Observe the following precautions to prevent fire, personal injury and transceiver damage.

- Do not modify or attempt to adjust this transceiver for any reason.
- Do not expose the transceiver to long periods of direct sunlight, nor place it close to heating appliances.
- Do not place the transceiver in excessively dusty, humid, and/or wet areas, nor on unstable surfaces.
- If an abnormal odor or smoke is detected coming from the transceiver, switch OFF the power immediately and remove the optional battery pack from the transceiver. Contact your dealer.

## **2 UNPACKING AND CHECKING EQUIPMENT**

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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**

<b>Item</b>	<b>Quantity</b>
Antenna	1
Charger (with adaptor)	1
Li-ion Battery Pack	1
Belt clip	1
User manual	1
Hand Strap	1

## **3 BATTERIES**

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### **CHARGING WARNINGS:**

Initially charging the battery pack after purchase or extended storage” greater than 2 months© will not bring the battery pack to its normal operating capacity.

After repeating the charge/discharge cycle two or three times, the operating capacity will increase to normal. Please replace or charge the battery pack while low power alarm.

### **AVAILABLE BATTERIES**

Please use our special battery to charge transceiver, if using other brand batteries, it may explode and damage nearby subjects or people.

#### **Note:**

1. Do not short the battery terminals or dispose of the battery by fire. Never attempt to remove the casing from the battery pack.
2. The ambient temperature should be between 5 and 40°C while charging is in progress. Out of the range, the battery may not be charged fully.
3. Always switch OFF the transceiver equipped with a battery pack before charging. Using the transceiver while charging its battery pack will interfere with correct charging.
4. Do not plug/unplug the AC adaptor and battery during charging, to avoid interference charging program.
5. The battery pack life is over when its operating time decrease even though it is fully and correctly charged. Replace the battery pack.
6. Do not recharge the battery pack if it is already fully charged. It would shorten the life of the battery pack or the battery pack may be damaged.
7. Do not charge transceiver while the battery or units were wet. Ought to dry it with cloth before charging, avoid damaging the unit.

### 3 BATTERIES

**Note:** All batteries can cause property damage and/or bodily injury such as burns if conductive materials such as jewelry, keys, or beaded chains touch exposed terminals. The conductive material may complete an electrical circuit (short circuit) and become quite hot. Carefully handling any charged battery, particularly when placing it inside a pocket, purse, or other container with metal objects.

#### CHARGE OPERATION

When installing the battery, the transceiver lights red. If three beeps sound each 30 seconds, it means low power, please start to charge the transceiver. Please use our special charger for battery charging, the charger LED display charging status.

LED appears	Status
Red	Charging
Green	Fully charged

#### TO CHARGE BATTERY PACK, PERFORM THE FOLLOWING STEPS:

1. Plug the AC adaptor cable into the adaptor jack located on the rear of the charger.
2. Put the battery pack or transceiver with a battery pack into the charger.
3. Plug the AC adaptor into AC outlet.
4. Make sure the battery pack contacts are in contact with the charging terminals, the charger LED lights red and charging begins.
5. The supplied charger LED lights green, complete charged. Remove it or the transceiver equipped with it from the charger.

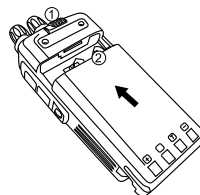
#### Note:

1. The charger's LED flashing before unplugging battery pack, it is normal.
2. When replace a battery pack to charge, please charging after LED is steady.
3. The charger lights red while charging after plugging the battery, flashing means defective battery or the temperature is too high or low.

### 4 PREPARATION

#### INSTALLING/REMOVING THE BATTERY PACK

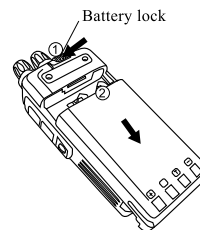
The battery pack is not charged at the factory. Charge it before use.



1. Match two bulges of the battery pack with the corresponding socket on the back of the transceiver.

2. Press the battery pack and the transceiver firmly together until the release latches locks.

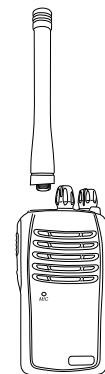
3. Press the release latches and take out the battery pack from the transceiver.



#### INSTALLING THE ANTENNA

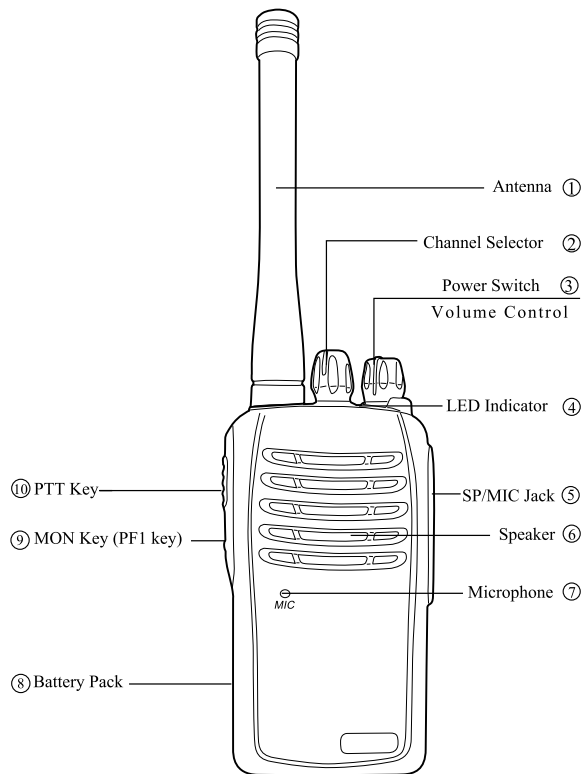
Screw the antenna into the connector on the top of the transceiver by holding the antenna at its base and turning it clockwise until secure.

**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.



## 5 GETTING ACQUAINTED

### KEYS AND CONTROLS



## 5 GETTING ACQUAINTED

1. Antenna

2. Channel selector

Rotate Channel selector to select channel 1-16.

3. Power switch/Volume control

Turn clockwise to switch ON the transceiver. To switch OFF the transceiver, turn counterclockwise until a click sounds. Adjust the volume level by rotating the Volume control.

4. LED indicator

Lights red while transmitting. Lights green while receiving a signal. Flashing red when the battery voltage is low while transmitting.

5. Speaker/microphone jack

6. Speaker

7. Microphone

8. Battery pack

9. MON Key(PF1 key)

Press it, squelch function is turned off. You will hear background noise. Release it, squelch function is turned on again.

10. PTT (Push-To-Talk) key

Press and then speak into the microphone to call a station. Release to receive.

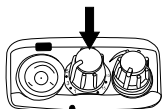
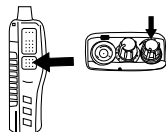
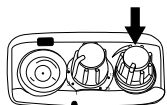
## 6 BASIC FUNCTION

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

■ A beep sounds if enabled by your dealer.  
2. Press the Monitor or Squelch Off function to hear background noise, and 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 voice from the speaker.

■ **Note:** once the battery strength is too low, the transceiver will stop transmitting and sound an alarm voice.



### CHANNEL GROUPS SWITCHING

There are three Groups for 40 channels, Group 1, Group 2 and Group 3, where each group is with 16 channels.

Group 1: from Channel 1 to Channel 16;

Group 2: from Channel 17 to Channel 32;

Group 3: from Channel 33 to Channel 40 (or from Channel 33 to Channel 48)

You can switch Group 1, 2 and 3 by the following operation:

■ If you are in Group 1, just turn off the radio, then press and hold PTT to turn on the radio till the voice announcement is heard. Just make same operation for switching Group 2 to Group 3, or Group 3 to Group 1.

**Notes:** When you turn on the radio, it announces the last Group and Channel No. you operated.

## 6 BASIC FUNCTION

### Default SRRS Frequency with CTCSS code:

Channel No.	Frequency (MHz)	CTCSS Code	Channel No.	Frequency (MHz)	CTCSS Code
1	325.000	67.0	21	325.2500	136.5
2	325.0125	69.3	22	325.2625	141.3
3	325.0250	71.9	23	325.2750	146.2
4	325.0375	74.4	24	325.2875	151.4
5	325.0500	77.0	25	325.3000	156.7
6	325.0625	79.7	26	325.3125	162.2
7	325.0750	82.5	27	325.3250	167.9
8	325.0875	85.4	28	325.3375	173.8
9	325.1000	88.5	29	325.3500	179.9
10	325.1125	91.5	30	325.3625	186.2
11	325.1250	94.8	31	325.3750	192.8
12	325.1375	100.0	32	325.3875	203.5
13	325.1500	103.5	33	325.4000	206.5
14	325.1625	107.2	34	325.4125	210.7
15	325.1750	110.9	35	325.4250	218.1
16	325.1875	114.8	36	325.4375	225.7
17	325.2000	118.8	37	325.4500	233.6
18	325.2125	123.0	38	325.4625	241.8
19	325.2250	127.3	39	325.4750	250.3
20	325.2375	131.8	40	325.4875	241.8

## 7 AUXILIARY FUNCTIONS

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### Transmitting 【PTT】 :

- Press PTT and speak to the microphone to make a call, the LED lights red.
- If this channel is empty or is forbidden in the software, it sounds "do" and doesn't light red.
- Release PTT to receive the signal. If there is a signal, LED lights yellow and turn on the speaker.
- If it isn't locked, it sounds "beep" alarm.

### MONITOR AND SQUELCH OFF

You can use the Monitor key to listen to weak signals that you cannot hear during normal operation, to deactivate channel signaling, and to adjust the volume when no signals are present on your selected channel.

- Squelch Off Momentary: Press and hold to hear background noise. Release the key to return to normal operation.
- Monitor Momentary: Press and hold to deactivate QT or DQT signalling. Release the key to return to normal operation.

### CHANNEL SCAN

You can scan all the channels what you stored the desired frequencies.

1. Put the channel selector into last channel.
2. Turn OFF the power.
3. Press and hold 【MON】 key and then turn ON the power. Transceiver is in automatically scanning.

Press 【MON】 key to pause scanning, release 【MON】 key to resume scanning.

4. Press 【PTT】 switch to transmit or turn OFF the power to cancel scanning function.

**Note:** Stop 3 seconds when the transceiver receives the signal and without any operation, it will continue to scan.

## 8 BASIC OPERATIONS

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### VOX FUNCTION

- It is programmable by software.
- VOX gain level is from 1 to 16. The higher level the more sensitive.
- VOX delay: if the transceiver reverts to receiver mode after transmission immediately, the last part of transmission may be not transmitted. This problem could be avoided by programming VOX delay time on the software.
- Cancel operation: if turn on the VOX and cancel operation at the same time, when press PTT key, VOX function is turned off automatically. Turn on the transceiver again to resume VOX function.
- If VOX proceed tone is turned on, there is a sound to remind the user that the VOX is on.

### ACTIVATE VOX TRANSMISSION OPERATION

If you configured to an appropriate VOX gain level, and activate VOX transmission, perform the following steps.

- Turn OFF power
- Press and hold 【PTT】 switch and then turn ON power.
- A double-beep sounds, and then release the 【PTT】 switch, the transceiver sounds the current channel number.
- Press 【PTT】 switch to cancel VOX transmission, and press 【PTT】 switch to go on transmit.

### TIME OUT TIMER

- TOT limits the time of each transmission and avoids the thermal damage due to overheat caused by continuous transmission.
- If the transmission time is over TOT's limit (programmable by software), the transceiver stop transmission and sounds alarm. Release PTT key to stop alarm tone and then the transceiver backs to the receive mode.

## 8 BASIC OPERATIONS

- TOT pre-alert: transceiver sounds alarm tone, the transceiver stops transmitting on a programmable time (by software), TOT.

### BUSY CHANNEL LOCK OUT

- This function is programmable by software.
1. If the current channel doesn't have CTCSS or DCS, the transceiver can't transmit but only can receive.
  2. If the current channel has CTCSS or DCS. When receives a signal with CTCSS or DCS, the transceiver also can transmit. If not, the transceiver can't transmit.

### CTCSS CODE

- The sellers or manufacturers can use the programmable software to set QT code. When a channel set QT code, the squelch function can be used only when receiving the same QT signal. Similarly, only when the QT signal mode is same as yours, the radio station can receiver the signal you transmit. If others use different QT at the same channel from yours to make a call, the squelch function can't work and it only has yellow light indicates.

**Note:** the way to set QT refers to the programmable software.

Available CTCSS Tone Frequencies

OFF	67.0	69.3	71.9	74.4	77.0
79.7	82.5	85.4	88.5	91.5	94.8
100.0	103.5	107.2	110.9	114.8	118.8
123.0	127.3	131.8	136.5	141.3	146.2
151.4	156.7	162.2	167.9	173.8	179.9
186.2	192.8	203.5	206.5	210.7	218.1
225.7	233.6	241.8	250.3		

### POWER SAVING FUNCTION:

- Power saving: after turning on the transceiver for ten seconds and not receiving any signals or operations, it will automatically be in the power saving state.

## 8 BASIC OPERATIONS

### WIRED CLONE:

1. Connect the transceivers with cloning cable, and turn on the vice transceiver to stand by mode.
2. Press and hold [MON] button of host transceiver to power on until the LED flashes red.
3. Press [PTT] key of host transceiver to start cloning, while host transceiver flickers green quickly and vice transceiver flashed red. The cloning is finished when LED of host transceiver flashes red like power on status in Cloning mode and vice transceiver lights green as standby mode.
4. The cloning is failed, if the LED flashes abnormally during cloning data. Check the cloning cable to make sure it is well connected, or press [PTT] button of host transceiver again till it flickers green.
5. If you want to clone many transceivers one time, turn off the cloned vice transceiver and replace with a new one, then repeat step 3 to start cloning.
6. You should turn on the cloned transceiver again to operate the cloned data.

### VOICE ANNUNCIATION

Turning on the transceiver or rotating the channel selector, the transceiver has the voice annunciation.

The dealer and distributor can program the voice annunciation to be "off ", "English" or "Chinese".

When the voice annunciation of the transceiver is programmed to be "off ", it has no voice annunciation.