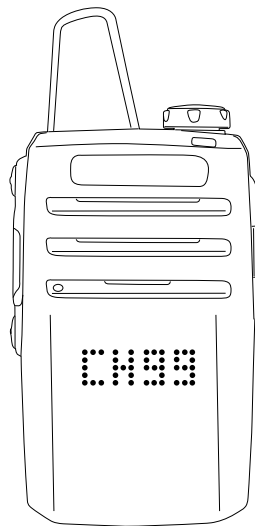




User Manual



FRS Radio Team Talky

- 53 CTCSS Codes
- 107 DCS Codes
- Ultra-large battery capacity

1 SAFETY INFO

Notices To The User

- Government law prohibits the operation of unlicensed radio transmitters within the territories under government control.
- Illegal operation is punishable by fine or imprisonment or both.
- Refer service to qualified technicians only.

Safety

- It is important that the operator is aware of and understands hazards common 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.

1 SAFETY INFO

- 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

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:

Item	Quantity (PC)
Type C USB Cable & Power supply	1
Battery Pack	1
Belt Clip	1
User Manual	1
Hand Strap	1

3 BATTERIES

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

3 BATTERIES

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.

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.

3 BATTERIES

Please use our special charger for battery charging, the charger LED display charging status.

LED appears	Status
Red	Charging
Green	Fully charged

To charge the battery pack, perform the following steps:

- 1). Plug the Type-C USB connector into the USB socket on the back of the battery after opening the charging port cover.
2. Plug the AC power supply into AC outlet.
3. Make sure the battery pack is in good contact with the charging terminals, the charging LED lights red indicating the charging starts.
4. The charging LED turns green (lithium battery) indicating the charging completes.

Notes:

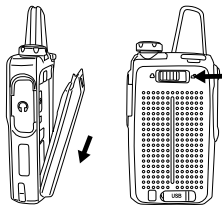
- ◆ When replacing new battery to charge, please wait until the charging LED is stable.
- ◆ The charger lights red in charging. Flash LED indicates battery damage or the ambient temperature being too high or too low.

4 PREPARATION

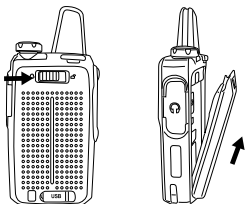
Installing/ Removing The Battery Pack

The battery pack is not fully charged in factory. It is better to fully charged before use.

1. Match the two bulges of the battery pack with the corresponding two holes on the back of the transceiver. Press the battery pack firmly to align with the transceiver, and then push the battery lock to the left.

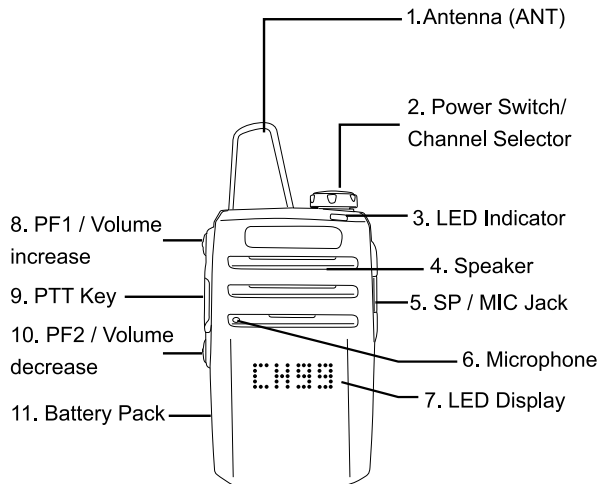


2. Push the battery lock to the right to take out the battery pack from the transceiver.



5 GETTING ACQUAINTED

KEYS AND CONTROLS



5 GETTING ACQUAINTED

1. Antenna (ANT)

2. Power switch / Channel selector

Long press it to power on or off the radio.

Rotate it to choose channel 1 to 99. Or coordinate with other functions.

3. LED Indicator

Light red when transmits. Light green while receiving a signal. Flash red when the battery capacity is low in transmitting.

4. Speaker

5. SP/MIC Jack

6. Microphone

7. LED display

8. Volume increase [Long press as definable key (PF1)]

9. PTT(Push-To-Talk) Key

10. Volume decrease [Long press as definable key (PF2)]

11. Battery pack

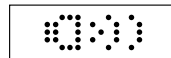
6 BASIC OPERATIONS

1. Turn the Power switch / Channel selector clockwise to power on the transceiver.

◆ A beep sounds if enabled by your dealer.

2. Press the PF1 side monitor key to hear background noise.

The display shows:



Then press the PF1 to increase radio volume; or press PF2 to decrease the volume.

3. Rotate channel selector to choose desired channel.

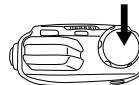
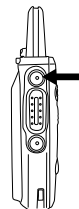
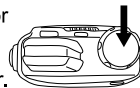
◆ When receive an appropriate signal, a sound from the speaker will be heard.

Note: The radio will stop transmitting and sound an alert tone, when the battery capacity is low.

Please refer to "Low Battery Alert"

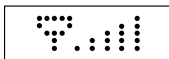
Transmitting (PTT)

1. To transmit, hold the radio 5cm far away from the mouth, and press PTT key to speak into the microphone with normal voice.



6 BASIC OPERATIONS

- ◆ The LED lights red and signal strength indicator appears on the LED display.



2. After speaking, release the PTT key to receive.

Note: When TOT function is on, if the transmitting time exceeds set time, the inner timeout timer will sound beep alarm and then the radio will stop transmitting. In this case, release the PTT key to have a short rest and then press PTT key to continue to transmit.

Programming Function Keys

The PF1, PF2 key can be defined by programming software.

Totally 10 functions can be selected for defining:

1. Monitor
2. Alarm
3. VOX
4. Key Lock
5. MENU
6. Power
7. CALL
8. Battery Strength

Note: In scan mode, once a signal is received, if no operation in 5S, the transceiver will continue to scan.

7 MENU SETUP

What Is A Menu?

Many functions on this transceiver are selected or configured via a software-controlled Menu rather than through the physical controls of the transceiver. Once become familiar with the Menu system, its versatility will be appreciated. The various timings, settings, and programming functions on this transceiver can be customized to meet common needs without using many controls and switches.

Menu Function List

On the display	Menu No.	Function	Selections	Default	Description
SQL	1	Squelch Set	SQ0-SQ9	SQ-4	5 level
POW	2	Power Setting	Hight / Low	H	Hight Power
SCMO	3	Scan Mode Set	TO / CO / SE	TO	Time Operation
SCN	4	Scan On/Off	ON / OFF	OFF	Turn Off
LED	5	LED Display Mode Set	LE-Y / LE-A	LE-Y	Always on
SCP	6	Channel Priority Scan	01~99	01	01
LCK	7	Key Lock On/Off	ON/OFF	OFF	Turn Off
CAT	8	Call Ringtone Options	C-T1/2/3/4/5	1	1
TOT	9	Time to timer	OFF/10S/20S /30S...180S	30S	30S
BCL	10	Busy Channel Lockout	BL-N / BL-Y	BL-N	Turn Off
CALL	11	Call Switch	ON/OFF	OFF	Turn Off
BATT	12	Battery strength	Display current voltage	4.2V	4.2V

8 MISCELLANEOUS FUNCTION

Adjusting The Squelch

The purpose of squelch is to mute the speaker when no signal is received. With the squelch level correctly set, only sound is heard when receiving signals. The higher the selected squelch level is, the stronger the signal must be to be received.

The approximate squelch level set should depend on the ambient RF noise conditions.

1. On standby mode, press [Menu] definable key to access to menu.

2. Rotate the channel selector to choose item No.1 [SQL].

3. Press [Menu] for confirmation.

4. Rotate channel selector to choose desired squelch level.

◆ Select the right level at which the background noise is just eliminated when no signal is received.

◆ The higher the level, the stronger the signals must be to be received.

◆ 9 different levels can be set (0: minimum, 9: maximum, Default value: 4).

5. After setting, press [F] key to store new setting and continue other menu operations.

8 MISCELLANEOUS FUNCTION

Power setting

One the premise of ensuring stable and reliable communication, it is better to choose lower power to reduce battery consumption.

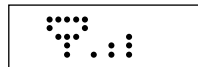
1. On standby mode, press [Menu]definable key to access to menu.

2. Rotate the channel selector to choose item No. 2[POW].

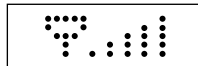
3. Press [Menu]again for confirmation.

4. Rotate channel selector to choose desired power output., between "PO-L" (low power) and "PO-H" (high power).

◆ When you choose "PO-L" low power, radio LED will show as below during transmitting.



◆ When you choose "PO-H" high power, radio LED will show as below during transmitting.



5. After set, press[Menu]to save it and continue other menu operations.

8 MISCELLANEOUS FUNCTION

Display Mode

1. On standby mode, press [Menu]definable key to access to menu.

Rotate the channel selector to choose item No. 5[LED].

2. Press [Menu]again for confirmation.

3. Rotate channel selector to choose LE-Y or LE-A to set display mode to be always ON or Auto.

■ LE-A: Auto (if no operation in 10s, LED will off automatically)

■ LE-Y: Always On.

4. After set, press[Menu]to save it and continue other menu operations.

Keylock mode Set

1. On standby mode, press [Menu]definable key to access to menu.

2. Rotate the channel selector to choose item No.7 [LCK].

8 MISCELLANEOUS FUNCTION

3. Press [Menu]again for confirmation.

4. Rotate the channel selector to choose key lock mode.

■ Manu: manual lockout (Long press [Menu] for 3s)

■ Auto: Auto lockout (If no operation for 8s, radio keypads will be locked automatically)

Call Ringtone options

1. On standby mode, press [Menu]definable key to access to menu.

2. Rotate the channel selector to choose item No. 8[CAT].

3. Press [Menu]again for confirmation.

4. Rotate channel selector to choose your desired ringtone(1-5).

5. After set, press[Menu]to save it and continue other menu operations.

Time out timer (TOT)

TOT is to limit every transmitting time. The built-in TOT limit every transmitting time as OFF, 10S,(minimum),180S (maximum). An alert will be heard before stop transmitting. Suggest you to open the function to prevent the radio too heat and damage.

1. On standby mode, press [Menu]definable key to access to menu.

8 MISCELLANEOUS FUNCTION

2. Rotate the channel selector to choose item No.9 [TOT].
3. Press [Menu] again for confirmation.
4. Rotate channel selector to choose your desired timer: OFF, 10S, 20S, 30S (default), 40S, 50S... 180S.
5. After set, press [Menu] to save it and continue other menu operations.

Busy Channel Lockout

The function is to avoid transmitting on a channel that someone else is currently using. When the function is activated, and press [PTT] for transmitting on a busy channel, an Error Beep sound will be heard, and fail to transmit.

1. On standby mode, press [Menu] definable key to access to menu.
2. Rotate the channel selector to choose item No.10 [BCL].
3. Press [Menu] again for confirmation.
4. Rotate channel selector to choose BL-N or BL-Y.
 - BL-N: Radio can transmit even on receiving.
 - BL-Y: Radio fail to transmit during receiving.
 - The function can be turn on or OFF via software for every channel.
- a. If the current channel is without QT or DQT, receiving signal, then it will prohibit transmitting.

8 MISCELLANEOUS FUNCTION

- b. If the current channel is with QT or DQT, receiving signal with same QT or DQT, it will not prohibit transmitting. If signal received without QT or DQT, then it will prohibit transmitting.
5. After set, press [Menu] to save it and continue other menu operations.

Call ON or OFF

1. On standby mode, press [Menu] definable key to access to menu.
2. Rotate the channel selector to choose item No.11 [CALL].
3. Press [Menu] again for confirmation.
4. Rotate channel selector to choose turn on or off the call.
5. After set, press [Menu] to save it and continue other menu operations.

Battery Strength

1. On standby mode, press [Menu] definable key to access to menu.
2. Rotate the channel selector to choose item No.12 [BATT].
3. Press [Menu] again for confirmation.
4. Radio will show the current battery strength, and back to main menu in 3S later.

8 MISCELLANEOUS FUNCTION

CTCSS (QT) and DCS (DQT)

There are total 53 groups of CTCSS (QT) code, and 107 groups of DCS (DQT) code including both positive and negative position.

The dealers or manufacturers can use the programming software to set QT or DQT code. When a channel to be set with QT or DQT code, the squelch can be open only when receive the same QT or DQT signal. Similarly, only when the QT or DQT signal code same as yours, the radio can receive the signal you transmit. If others use different QT or DQT 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 or DQT refers to the programming software.

8 MISCELLANEOUS FUNCTION

Channel Voice Annunciation

1. Rotating the channel selector when the radio is ON, the radio will report the channel number.
2. The dealers or manufacturers can use programming software to set voice notice as OFF, Chinese, English. Once to be set as OFF, radio will not report the channel number. Once to be set as Chinese or English, radio will report channel number accordingly.

9 FCC/ISED Statement:

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

SAR tests are conducted using standard operating positions accepted by FCC/ISED with the device transmitting at its highest certified power level in all tested frequency bands, although the SAR is determined at the highest certified power level, the actual SAR level of the device while operating can be well below the maximum value. Before a new model is available for sale to the public, it must be tested and certified to the FCC/ISED that it does not exceed the exposure limit established by the FCC/ISED. Tests for each product are performed in positions and locations as required by the FCC/ISED.

9 FCC/ISED Statement:

To control your exposure and ensure compliance with the General Population/Uncontrolled environment exposure limits always adhere to the following procedures.

Guidelines:

- .Do not remove the RF Exposure Label from the device.
- .User awareness instructions should accompany device when transferred to other users.

Do not use this device if the operational requirements described herein are not met.

Operating Instructions:

- .Transmit no more than the rated duty factor of 50% of the time. To transmit (talk), push the Push-To-Talk (PTT) button. To receive calls, release the PTT button.

Transmitting 50 % of the time, or less, is important because this radio generates measurable RF energy exposure only when transmitting (in terms of measuring for standards compliance).

Hold the radio in a vertical position in front of face with

9 FCC/ISED Statement:

the microphone (and the other parts of the radio, including the antenna) at least one inch (2.5 cm) away from the nose. Keeping the radio at the proper distance is important because RF exposures decrease with distance from the antenna.

Antenna should be kept away from eyes.

.When worn on the body, always place the radio in approved clip, holder, holster, case, or body harness for this product. Use of non-approved accessories may result in exposure levels, which exceed the General Population/Uncontrolled environment RF exposure limits. Use only manufacturer's name approved supplied or replacement antennas, batteries, and accessories. Use of non-manufacturer-name approved antennas, batteries, and accessories may exceed the FCC and IC RF exposure guidelines. For a list approved accessories please consult your local dealer for information.

9 FCC/ISED Statement:

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
 - Increase the separation between the equipment and receiver.
 - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
 - Consult the dealer or an experienced radio/TV technician for help.
- ISED RSS Warning:

This device complies with Innovation, Science and Economic Development Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any

9 FCC/ISED Statement:

interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'ISED applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Contrôlez votre exposition au risque et assurez-vous de respecter les exigences générales

Les limites d'exposition de la population / de l'environnement non contrôlé sont toujours conformes aux procédures suivantes.

Lignes directrices:

Ne retirez pas l'étiquette d'exposition RF de l'appareil.

Lorsque l'appareil est transféré à un autre utilisateur, il doit être accompagné d'instructions de sensibilisation de l'utilisateur.

N'utilisez pas cet appareil s'il ne répond pas aux exigences opérationnelles décrites dans cet article.

9 FCC/ISED Statement:

Instructions de fonctionnement:

Le temps de transmission ne dépasse pas 50% du cycle nominal.

Pour transférer (appel), appuyez sur Appuyez sur le bouton Push to talk (PTT). Pour répondre à un appel, relâchez le bouton PTT.

Transmission 50% du temps, Parce que cette radio ne produira une exposition mesurable à l'énergie RF que si:

Transmission (en termes de mesure de la conformité aux normes).

placez la radio verticalement devant vous avec le microphone (et le reste du microphone) Radio, antenne incluse) à au moins un pouce (2,5 cm) du nez. Mettez la radio allumée

Une distance appropriée est importante car l'exposition aux RF diminue avec la distance de l'antenne.

Les antennes doivent être éloignées des yeux.

Lorsque porté sur le corps, assurez-vous de placer la radio dans un clip, un support, un étui, une boîte ou un corps approuvé Ceintures de sécurité pour ce produit. L'utilisation d'accessoires non approuvés peut entraîner des niveaux d'exposition

Dépassement des limites d'exposition aux RF pour la population générale / environnement non contrôlé.

9 FCC/ISED Statement:

utiliser uniquement des antennes, des batteries et des piles de rechange fournies ou de remplacement approuvées par le nom du fabricant Accessoires. Utilisation d'antennes, de batteries et d'accessoires non approuvés par le nom du fabricant possible

Dépasse les directives d'exposition aux RF de la FCC et de l'IC.

Consultez votre revendeur local pour obtenir des informations sur la liste des accessoires approuvés.