USER'S MANUAL

PTTalky FR2 / FR2 PLUS

FRS FM TRANSCEIVER

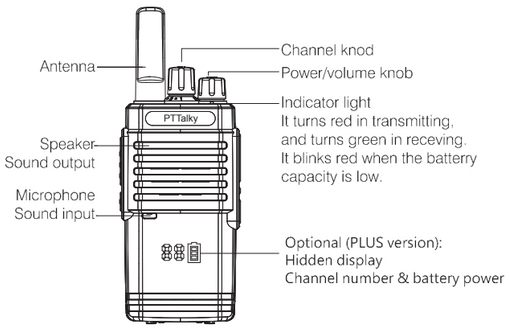
TOT / Scan / Voice Prompt / Battery save function
VOX / Low battery prompt / Narrow bandwidth
CTCSS / DCS / BCL/Monitor/ Squelch

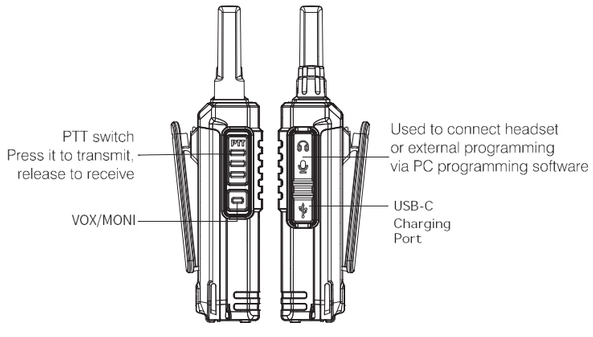
Software:
https://pttalky.s3.amazonaws.com/FR2.exe
https://pttalky.s3.amazonaws.com/FR2+PLUS.exe

Setting Factory

NO	Frequency	CTCSS/DCSS	Bandwidth	Power
1	462.5625	OFF	Narrow	High
2	462.5875	OFF	Narrow	High
3	462.6125	OFF	Narrow	High
4	462.6375	OFF	Narrow	High
5	462.6625	OFF	Narrow	High
6	462.6875	OFF	Narrow	High
7	462.7125	OFF	Narrow	High
8	462.5500	OFF	Narrow	High
9	462.5750	OFF	Narrow	High
10	462.6000	OFF	Narrow	High
11	462.6250	OFF	Narrow	High
12	462.6500	OFF	Narrow	High
13	462.6750	OFF	Narrow	High
14	462.7000	OFF	Narrow	High
15	462.7250	OFF	Narrow	High
16	462.5625	OFF	Narrow	High

GETTING FAMILIAR





BASIC OPERATION

1. Indicator
Indicator turns red when transmitting, and it turns green when receiving.
2.Channel Knob
Rotate the knob to select the channel 1 to channel 16, counterclockwise rotateto decrease the value of channel name, clockwise rotate to increase the valueof channel name.
3.Power Knob/Volume Knob
Clockwise rotate to turn on the radio, and counterclockwise rotate to turn off the radio. Rotating the knob can adjust the volume.
4. PTT switch
Press PTT switch and then talk to the microphone, the indicator light turns red,if the channel does not have transmitting frequency,a "DU DU" tonesounds, and indicator light turns red.Release PTT switch to receive, it lights green when there is signal.
5.Squelch level
The squelch level will determine the signal strength to open the speaker of the radio. If the squelch level is lower,the background noise of opening the radiosspeaker the radios speaker will be higher, and the corresponding communi-cation range will be further, but the anti-interference capacity will be weaker.The default setting of squelch level is 3, you can adjust it through themenu "Squelch level" of the "Optional Features" in the programmingsoftware. Level 0 to 9 can be selected. 0 is the lowest level.
6.Monitor
Press the MONI button to monitor different DCS calls at the same frequency.or press the button to listen when the signal strength does not reach thethreshold.
7.TOT
The purpose of TOT is to prevent any radio from talking in one channel for along time, and to prevent the transceiver from being damaged because ifcontinuous transmission. If the transmitting time exceeds the TOT pre-settime, the radio will sounds "DU" and stops transmit, release the "PTT"key to back to receive status and stop sound "D" .
8. Scan Set by software
When the current channel is channel 16,the radio will automatically detectthe 16 channels which defined as scan. When the channel which is bescanned has signal, the radio will stop in the channel to communicationNotice:
A. When the scannable channels is less than 2 channels, radio can't go toscan
B. When the radio is stopping in the channel which has signal, after the signaldisappears 10s, the radio will scans the next channelC.If radio do not want to scan, please choose the "No" in the "Scan Add" for every channel.

9.English voice prompt
The voice prompt can be selected" English/None" through the program-ming software.
10.Battery save function
This function can be set by the software
Turn on this function can make the standby time more longer.
11. Low battery alert
Notice:
when the voltage is lower than a certain level,if the voice selection is turned off,the sound of "DuDu" will appear every 15 seconds. If the voice is on, it will prompt "please charge." If the voice choice of Chinese or English, press PTT key or Vox transmission is invalid and the sound of "please charge" will still prompt, at the same time, the sound "Du" will ring until PTT release or Vox end.
12.Busy channel lock
If the busy lock is set, press PTT after receiving the signal to prohibit transmis-sion and sound "Di" is ringing until PTT release.
13.Press & Hold 3 seconds the side Key to turn on VOX
Speak to the microphone in normal voice to transmit, no need to press PTT key A: when VOX is on in your working channel.Speak to the microphone directly, it will transmits automatically.
The radio stops transmitting when there is no voice, and waits for receivingB.When a headset with a microphone is usedWhen VOX is on, you should VOX gain for the radio to identify voice volumeIf the microphone is too sensitive, the noise around radio will start transmit-ting
If the microphone is not sensitive, the radio can not collect your voice, pleaseadjust VOX level well to guarantee smooth communications.

STATEMENTS WARNING AND COMPLIANCE STATEMENT
FCC Warning Statement
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 including received interference that may cause undesired operation.
The grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. Such modifications could void the user' s authority to operate the equipment. Replacement of any transmitter component (crystal, semiconductor, etc.) not authorized by the local government radio management departments equipment authorization for this radio could violate the FCC rules.
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 willnot 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 eceiver is connected.
-Consult the dealer or an experienced radio/TV technician for help.
FCC RF Exposure Statement
This device complies with FCC radiation exposure limits set forth for an uncontrolled environment. Do not use this device when the antenna shows obvious damages.
Hold this transmitter approximately 25 mm away from your face and speak normal with the antenna pointed up and away. Use the supplied belt clip for body-worn configuration as other accessories may not comply to the limits.

ISED Warning Statement
It is up to the user to properly operate this radio transmitter to insure safe operation. Please adhere to the following:
-Use only the supplied or an approved antenna. Unauthorized antennas modifications, or attachments could impair call quality, damage the radio, or result inviolation of IC regulations.
-Do not use the radio with a damaged antenna.
-If a damaged antenna comes into contact with the skin, a minor burn may result.
Please contact your local dealer for a replacement antenna.
Use of the radio in Canada is subject to the rules & regulations of IC. Changes or modifications not expressly approved by our may void the user authority granted by the IC to operate this radio and should not be made. To comply with IC requirements, transmitter adjustments should be made only by or under the supervision of a person certified as technically qualified to perform transmitter maintenance and repairs in the private land mobile and fixed services as certifed by an organization representative of the user of those services. Replacement of any transmitter component (crystal, semiconductor, etc.) not authorized by the IC equipment authorization for this radio could violate IC rules.
Note: Use of this radio outside the country where it was intended to be distributed is subject to government regulations and may be prohibited.
Important: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this device
Your radio is set up to transmit a regulated signal on an assigned frequency. It is against the law to alter or adjust the settings inside the radio to exceed those limitations. Any adjustments to your radio must be made by qualified technicians
To be safe and sure:
-Never open your radio' s case
-Never change or replace anything in your radio except the battery.
-Any attempt to change frequencies or output power of the radio invalidates the approvall'utilisation de la radio au Canada est assujettie aux reglements de la société radio.
-Canada.Toute modification ou modification qui n'est pas expressement approuvée par la compagnie peut invalider les droits d'utilisation accordés par IC pour l'exploitation de cette radio et ne devrait donc pas être modifiée ou modifiée.
Pour se conformer aux exigences d'IC, le réglage de l'émetteur ne doit être effectué gue par ou sous la supervision d'une personne techniquement qualifiée qui effectue l'entretien et la réparation de l'émetteur dans un Service mobile et fixe terrestre prive et qui est certifée par un représentant de lOrganisation de l'utilisateur du service.
Le remplacement de tout composant émetteur (cristal, semi - conducteur, etc.) qui n'est pas autorisé par l'équipement IC peut enfreindre les règles de l'IC.
Note:L'utilisation de cette radio à l'extérieur du pays où elle est destinée à être distribuée est soumise à des reglements gouvernementaux et peut être interdite.
Important:Toute modification ou modification qui n'est pas expressément approuvee par la partle responsable de la contormite peut priver l'utilisateur de l'autorisation d'utiliser cet appareil.Votre radio est réglée pour envoyer le signal spécifié à la frequence spécifiée.Il est illegal de modifier ou d'ajuster les réglages internes de la radio au -delà de ces limites.Tout réglage de la radio doit étre effectué par un technicien qualifié.
Pour la securite et la fiabilité:
-n'ouvrez pas le boitier de la radio.
-Ne remplacez ni ne remplacez rien à la radio, à l'exception de la batterie
-Toute tentative de modification de la frequence radio ou de la puissance de sortie invalidera la certification
ISED RF Exposure Statement
This EUT is compliance with SAR for controlled exposure limits in IC RSS-102 at operating duty factors ofup to 50% and had been tested in accordance with the measurement methods and procedures specified in IEC/IEEE 62209-1528 .
This equipment should be installed and operated with a minimum distance of 25mm must be maintained when held-to-face, and body-worn operations are restricted to the approved original accessories (belt clip), a minimum distance of 0 cm.
Cet EUT est conforme au SAR pour les limites d'exposition contrôlées dans IC RSS-102 à des facteurs de service allant jusqu'à 50% et a été testé conformément aux méthodes et procedures de mesure spécifiées dans IEC/IEEE 62209-1528 .
Cet équipement doit étre installé et utilisé avec une distance minimale de 25 mm doit être maintenu lorsqu'il est tenu face à face, et les opérations portées sur le corps sont limitées aux accessoires d'origine approuvés (clip de ceinture), une distance minimale de 0 cm.
WARNING: MODIFICATION OF THIS DEVICE TO RECEIVE CELLULAR RADIOTELEPHONE SERVICE SIGNALS IS PROHIBITED UNDER FCC RULES AND FEDERAL LAW.
AVERTISSEMENT: LES RÈGLES DE LA ISED ET LA LOI FÉDÉRALE INTERDISENT LA MODIFICATION DE CET APPAREIL POUR RECEVOIR DES SIGNAUX DU SERVICE DE RADIOTÉLÉPHONIE CELLULAIRE.

SPECIFICATIONS

GENERAL

Frequency range: FRS
Channel: 16
Working voltage: 3.7V
Working temperature: 0℃ ~ +40℃
Dimension: 160mm × 61mm × 36mm

TRANSMITTER

Power: ≤ 2W
Modulation type: 11KF3E
Spurious radiation: ≤7.5μw
Modulation noise: <-40dB
Modulation response: <5%
Frequency tolerance: 5ppm

RECEIVER

Sensitivity: ≤0.2μv
Occupied bandwidth: ≤11KHz
Channel selective: ≥65dB
Inter-modulation: ≥55dB
Audio power: >500mW
Audio distortion: ≤5%
Frequency tolerance: 5ppm
Current: 150mA
Audio response(300-3000Hz): +7 ~ 12.5dB