FRS Two Way Radio

MODEL: H-888S

USER'S MANUAL

IMPORTANT NOTICE



WARNINGS: Replacement or substitution of transistors, regular diodes or other parts of a unique nature, with parts other than those recommended by PO FUNG COMPANY may cause a violation of the technical regulations of part 95 of the FCC rules, or violation of type acceptance requirements of part 2 of the rules. Your to transmit a regulated signal on an assigned frequency. Any adjustment to your radio must be made by

radio is set up to transmit a regulated signal on an assigned frequency. Any adjustment to your radio must be made by qualified technicians.

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.



FCC & RSS WARNINGS:

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

SAR tests are conducted using standard operating positions accepted by the FCC/ISEDC 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 a available for sale to the public, it must be tested and certified to the FCC/ISEDC that it does not exceed the exposure limit established by the FCC/ISEDC Tests for each product are performed in positions and locations as required by the FCC/ISEDC. For body worn operation, this device has been tested and meets the FCC/ISEDC RF exposure guidelines when used with an accessory designated for this product or when used with and accessory that contains no metal.

Tm maintain compliance with the FCC/ISEDC's RF exposure guidelines, hold the transmitter and antenna at least 1 inch(2.5 centimeters) from your face and speak in a normal voice, with the antenna pointed up and away from the face.

This equipment complies with FCC/ISEDC radiation exposure limits set forth for an uncontrolled environment. In order to comply with the FCC/ISEDC RF exposure requirements, the antenna installation must comply with following:

Users must be fully aware of the hazards of the exposure and able to exercise control over their RF exposure to qualify for

the higher exposure limits.

Your wireless hand-held portable transceiver contains a low power transmitter. This product sends out radio frequency (RF) signals when the Push-to-Talk (PTT) Button is pressed.

The device is authorized to operate at a duty factor not to exceed 50%.

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.

This device complies with ISEDC 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 interference, including interference that may cause undesired operation of the device.

Le présent areil est conforme aux CNR d'ISEDC licables aux arels radio exemprs de licence.

L'exploitation est autorisée aux deux conditions suivantes:

(1) l'areil ne doit pas produire de brouillage, et

(2) l'utilisateru de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Les tests SAR sont effectués en utilisant des positions de fonctionnement standard acceptées par la FCC/ISEDC avec l'appareil transmettant à son niveau de puissance certifié le plus élevé dans toutes les bandes de fréquences testées, bien que le SAR soit déterminé au niveau de puissance certifié le plus élevé, le niveau SAR réel de l'appareil tout en fonctionnement peut être bien en deçà de la valeur maximale. Avant qu'un nouveau modèle ne soit disponible à la vente au public, il doit être testé et certifié par la FCC/ISEDC qu'il ne dépasse pas la limite d'exposition établie par la FCC/ISEDC Les tests pour chaque produit sont effectués dans les positions et emplacements requis par la FCC/ISEDC.

Pour un fonctionnement porté sur le corps, cet appareil a été testé et répond aux directives d'exposition RF FCC/ISEDC lorsqu'il est utilisé avec un accessoire conçu pour ce produit ou lorsqu'il est utilisé avec un accessoire qui ne contient pas de métal.

Pour maintenir la conformité avec les directives d'exposition RF de la FCC/ISEDC, tenez l'émetteur et l'antenne à au moins 1 pouce (2,5 centimètres) de votre visage et parlez d'une voix normale, avec l'antenne pointée vers le haut et loin du visage.

Votre émetteur-récepteur portatif sans fil contient un émetteur de faible puissance. Ce produit envoie des signaux de fréquence radio (RF) lorsque le bouton Push-to-Talk (PTT) est enfoncé. L'appareil est autorisé à fonctionner à un facteur de marche ne dépassant pas 50 %.

Important Tips

To help you make better use of the product, be sure to observe the following instructions:

- 1. Do not use any unauthorized or damaged accessory.
- 2. Keep the product at least 2.5 centimeters away from your body during transmission.
- 3. Do not keep the product receiving at high volume for a long time.
- 4. For vehicles with an air bag, do not place the product in the area over the air bag or in the air bag deployment area.
- 5. Keep the product and its accessories out of reach of children and pets.
- 6. Please operate the product within the specified temperature range.
- 7. Continuous transmission for a long time may lead to heat accumulation within the product. In this case, please keep it at a proper location for cooling.
- 8. Handle the product with care.
- 9. Do not disassemble, modify or repair the product and its accessories without authorization.

Precautions for Batteries

Charging Prohibitions

To protect you against any property loss, bodily injury or even death, be sure to observe the following safety instructions:

- 1. Do not charge or replace your battery in a location containing fuels, chemicals, explosive atmospheres and other flammable or explosive materials.
- 2. Do not charge your battery that is wet. Please dry it with a soft and clean cloth prior to charge.
- 3. Do not charge your battery suffering deformation, leakage and overheat.
- 4. Do not charge your battery with an unauthorized charger.
- 5. Do not charge your battery in a location where strong radiation is present.
- 6. Overcharge shall always be prohibited for it may shorten the life of your battery.

Maintenance Instructions

To help your battery work normally or prolong its life, be sure to observe the following instructions:

- 1. Accumulated dust on charging connector may affect normal charging. Please use a clean and dry cloth to wipe it on a regular basis.
- 2. It is recommended to charge the battery under $5^{\circ}C^{40}C$. Violation of the said limit may cause battery life reduction or even battery leakage.
- 3. To charge a battery attached to the product, turn it off to ensure a full charge.
- 4. Do not remove the battery or unplug the power cord during charging to ensure a smooth charging process.
- 5. Do not dispose of the battery in fire.
- 6. Do not expose the battery to direct sunlight for a long time nor place it close to other heating sources.
- 7. Do not squeeze and penetrate the battery, nor remove its housing.

Transportation Instructions

- 1. Damaged batteries must not be transported.
- 2. To avoid short circuit, separate the battery from metal pars or from each other if two or more batteries are transported in one packaging.
- 3. The radio must be switched off and secured against switch-on, if the battery is attached.

The content of the shipment must be declared in the shipping documents and by a Battery Shipping Label on the packaging. Contact your hauler for the local regulations and further information.

Recycle Battery

Local, state or federal laws may prohibit disposal of batteries in ordinary trash. Consult your local waste authority for information regarding available recycling and/or disposal options.

Package Contents

- H-888S Radios
- 1500mAh Li-ion rechargeable battery pack
- User Manual

Main characteristics

- belt clip
- desktop charger

- FRS Transceiver (No license required)
- Channel spacing: 12.5 KHz
- Vocal tuning
- Channel Monitor
- Flashlight
- 50 CTCSS tones and 210 DCS codes
- TOT (Time out timer)

Battery recharge

- Output power: 31dBm
- Channel Scan
- Battery save
- Squelch
- 2pin Kenwood accessory jack
- Li-Ion 1500mAh battery pack

H-888S is equipped for using a 3.7V Li-ion rechargeable battery pack which can be recharged connecting the socket of the AC/DC wall adaptor to a mains power socket and inserting the jack of the wall adaptor into the desktop charger plug. It takes 4-5 hours to fully recharge the radio. For maximum battery life, we recommend charging the battery pack when the H-888S is off and the battery pack is fully discharged.

Using a different battery charger other than the one specified can cause damage to your device or may even cause explosions and personal injuries.

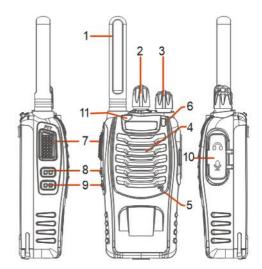
The Battery power saving feature enables a reduction in consumption of up to 50%. If it has been set, it automatically activates when the transceiver does not receive any signal for more than 5 seconds in order to save the battery life. Power saving can be disabled only through Programming software.

Main controls and parts of the radio

- 1. Antenna
- 1. Encoder: rotate clockwise or counter-clockwise to select the desired channel
- Power/volume knob-turn clockwise to power on and increase the volume level.

Turn counter-clockwise to decrease the volume level and power off.

- 4. Speaker
- 5. Built-in microphone
- 6. Led indicator: RED: TX; GREEN: RX.
- 7. PTT: push this button to transmit, release it to receive.
- 8. Side key 1: hold down this button to activate the Monitor function.
- 9. Side key 2: shortly press this button to turn on/off the flashlight at the top side of the radio.
- 10. External Speaker/Mic Jack- allows the connection with external devices such as headsets, microphones.
- 11. Flashlight



Operations

Power on/off and volume adjustment

Rotate the Power/Volume knob clockwise to turn the radio on. Rotate the control clockwise /counter-clockwise to adjust the volume level as you prefer. To turn the radio off, rotate the control counter-clockwise till hearing a mechanical "click".

Transmission

To communicate, all radios in your group must be set to the same channel. Briefly press the Side key 1 to enable the Monitor feature in order to make sure that the frequency is not busy, and then press the PTT button. Release the PTT key to receive. Only one user at a time can talk during radio communications. Therefore, it is important not to transmit when you are receiving a communication and use the transmission mode sparingly to allow other users to talk. Transmission consumes a significant amount of energy and should therefore be used sparingly to prolong the battery life. If you are unable to contact a station that you have no problems in receiving, the station may be using CTCSS tones or DCS codes.

Monitor

The Monitor feature is for excluding (opening) the Squelch, in order to listen to signals that are too weak to keep the Squelch permanently opened. Hold down the **Side key 1** to enable such function.

Scan

This function can be activated only by means of the optional programming software. To enable the Scan function, all 22 channels must be programmed. If you turn on the radio on channel 16, the scanning will automatically start. Whenever any signal is detected, the scanning will stop on a busy channel. If the PTT is pressed, you will transmit on the latest busy channel. Channel 16 is the priority channel; therefore if you don't pick up any signal when you press PTT, the radio will transmit on channel 16.

Squelch

The Squelch function suppresses noises on free channels and allows receiving even weak signals. H-888S has 10 different Squelch levels that can be set by programming software: 0 means that the Squelch is turned off; from level 1 to level 9 you

will have different levels of noise reduction. The higher is the level, the louder will be the Squelch. By default, the Squelch level of H-888S is set on level 4. Make sure you do not set an excessively high squelch level because in this case you may not be able to receive weaker signals. On the other hand an excessively low Squelch value could enable the Squelch even when no signals are present. Squelch must always be adjusted when no signals are present. The Time Out timer is settable from 30 sec to 270 sec. only through the programming software. This feature is disabled by default.

CTCSS/DCS tones

CTCSS and DCS tones are similar to access codes and enable the radio to communicate only with the users that are tuned on the same channel and have set the same code. For each channel, you can set up to 50 CTCSS tones and 210 DCS codes. The CTCSS/DCS tones are a sort of "access codes" and enable the radio to communicate only with the other users set on the same frequency and on the same CTCSS/DCS tone. Undesired signals coming from other stations set on the same frequency but with different CTCSS/DCS tones won't be received.

Flashlight

With H-888S turned on, shortly press the Side key 2 to turn on/off the flashlight at the top side of the radio.

Prompt voice switch settings

The encoder is selected to the **10th** channel. Press and hold the **PTT** and **Side Key 1** to turn on the radio, and turn the prompt voice on or off.

Turn on the prompt voice function, and there will be voice prompts when the encoder is turned on or operated. If you turn off the prompt voice function, there is only a "beep" prompt when you turn on or operate the encoder.

Emergency alert function

If necessary, you can pre-program the **Side Key 1** into the Alarm function via CPS programming software. Turn on the radio, short press the **Side Key 1** to turn on the alarm function. Press the **Side Key 1** again to release the emergency alarm status.

VOX

The VOX feature enables hands free conversations without using PTT: just speak in the direction of the microphone and the

communication will be automatically activated. The VOX sensitivity can be adjusted in 5 different levels (1...5) through the programming software:

Level 2 is set by default and has the lowest VOX sensitivity, 5 is the lowest one.

With the programming software you can enable/disable the VOX feature and select the sensitivity levels.

Quick operation radio

Without CPS programming software, you can perform the following quick operations through the combination of **PTT + Side Key 1**:

- On channels 1-5, press and hold the **PTT + Side Key 1** key to turn on the radio and turn the VOX function on or off. The VOX sensitivity is level 1-5, the level 1 sensitivity is the highest, and the level 5 sensitivity is the lowest. Accompanied by a voice prompt VOX ON or VOX OFF.
- On the 10th channel, press and hold the PTT + Side Key 1 to turn on the radio and turn on or off the prompt voice function.
- On the 15th channel, press and hold the **PTT + Side Key 1** to turn on the radio and switch the prompt language between Chinese and English.

Phenomena	Analysis	Solution
You cannot turn on the radio.	The battery may be installed improperly.	Remove and reattach the battery.
	The battery power may run out.	Recharge or replace the battery.
	The battery may suffer from poor contact caused by	Clean the battery contacts or replace the
	dirty or damaged battery contacts.	battery.
During receiving, the voice is weak or intermittent.	The battery voltage maybe low.	Recharge or replace the battery.
	The volume level may be low.	Increase the volume.
	The antenna maybe loose or maybe installed	Turnoff the radio, and then remove and
	incorrectly.	reattach the antenna.
	The speaker maybe blocked.	Clean the surface of the speaker.
You cannot communicate with other group members.	The frequency or signaling type maybe inconsistent	Verify that your TX/RX frequency and
	with that of other members.	signaling type are correct.
	You may be too far away from other members.	Move towards other members.
You hear unknown voices or noise.	You may be interrupted by radios using the same	Change the frequency, or adjust the
	frequency.	squelch level.
	The radio in analog mode maybe set with no	Request your dealer to set signaling for
	signaling.	the current channel to avoid interference
You are unable to hear anyone because of too much noise and hiss.	You may be too far away from other members.	Move towards other members.
	You may be in an unfavorable position. For example,	Move to an open and flat area, restart the
	your communication may be blocked by high	radio, and try again.
	buildings or blocked in an underground area.	
	It may be the result of external disturbance (such as	Stay away from equipment that may cause
	electromagnetic interference).	interference.
The radio keeps transmitting.	VOX may be turned on or the headset is not installed	Turn off the VOX function. Check that the
	in place	headphones are in place.

Appendix A. – Trouble shooting guide

NOTE: If the above solutions cannot fix your problems, or you may have some other queries, please contact your dealer for more technical support.

Appendix B. - Technical Specifications

Frequency Range	FRS (462.55-462.725MHz, 467.5625-467.7125MHz)	
Memory Channel	22	
Operation Voltage	DC 3.7 V ±10%	
Battery Capacity	1500mAh (Li-Ion)	
Transmission current	≤1000mA	
Receive Sensitivity	0.25µV (12dB SINAD)	
Emission Designator	11k0F3E	
Audio Power Output	1W @8 ohms	
Receive current	≤380mA	
Rated Audio Distortion	≤5%	
Connection for accessories	2 pin Kenwood jack	
Antenna impedance	50 Ohm	
NOTE: All energiantions may be medified without wire notice or lightlity. Thenk you		

NOTE: All specifications may be modified without prior notice or liability. Thank you.

Disclaimer

The Company endeavors to achieve the accuracy and completeness of this manual, but no warranty of accuracy or reliability is given. All the specifications and designs are subject to change without notice due to continuous technological development. No part of this manual may be copied, modified, translated, or distributed in any manner without the prior written consent of the Company.

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