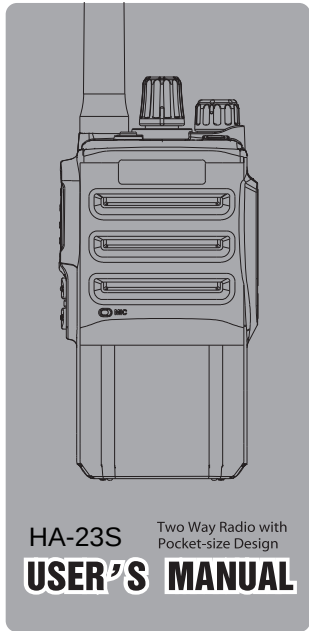




Foreword

Thank you for choosing the FM transceiver LS-K88. This product is designed to meet the requirements of a radio that is easy to operate and give excellent performance.

Safety Information

Please read the following information for your personal safety.

1. Please turn off the radio prior to entering hazardous areas e.g. inflammable or Blast zones.
2. Do not use a radio with a damaged antenna. It may cause minor burns if the damaged antenna comes in contact with your body.
3. Do not attempt to disassemble or repair the radio. This should be left to qualified personnel.
4. To avoid interference with equipment, always switch off your radio in sensitive places where warning signs are posted e.g. at hospitals or health clinics.
5. Turn off your radio before boarding an aircraft. Any use of the radio must be in accordance with the airline's regulations or as per flight crew's instructions.
6. Do NOT expose the radio to direct sunlight for long periods.
7. Do NOT place the radio on or in close proximity of hot surfaces.
8. Do NOT place the radio in excessively dusty, humid or wet places.

Main Features

- QT/DQT
- Squelch Level 0-9
- VOX/VOX Delay Time
- Scrambler
- Emergency Alert
- Voice Announcement
- Time-out Timer
- Battery Saver
- Low Battery Alert
- Compander

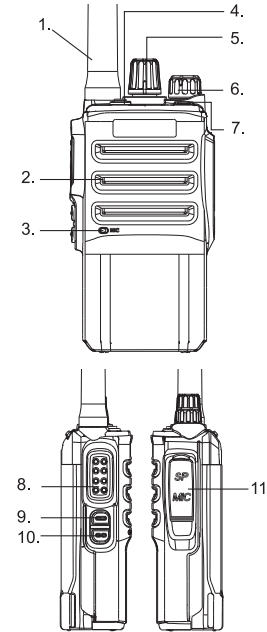
Unpacking

Carefully unpack the radio and its accessories to identify them as illustrated below. If you find any missing or damaged parts, please contact your dealer immediately.

No.	Items	QTY
1	Main Unit	1
2	Charger	1
3	Li-ion Battery Pack	1
4	Belt Clip	1
5	Hand-Strap	1
6	User Manual	1

Note: Pictures are only for your references; please take the real objects as standard!

Radio Overview



No.	Unit	Remarks
1	Antenna	Transmit/Receive signals, deliver wider communication coverage.
2	Speaker	
3	MIC	Microphone
4	Emergency Key	Press to alert
5	Channel Knob	Switch to choose channel
6	Power / Volume Knob	1. Turn clockwise to switch on the radio, and turn counter-clockwise until a "click" is heard to switch off the radio. After switch on radio, turn the knob clockwise to increase the volume, and turn counter-clockwise to decrease the volume.
7	LED Indicator	Receiving: Green Light bright; Transmitting: Red Light bright
8	PTT (Push-To-Talk) Key	Press and hold the PTT key to transmit, and release it to receive.
9	Squelch	Press button to activate, press again to exit.
10	Scan	Press to scan, press again to exit
11	SP/MIC Jack	Dustproof and Rainproof

Operation Instruction

Power On/Off

Turn the Power Knob (also called Volume Knob) clockwise to switch on the radio; you will hear a "di" sound and a voice message will indicate the current channel number. Turn counter-clockwise to switch off the radio.

Adjust the Volume

Turn Power Knob (also called Volume Knob) to increase or decrease the volume.

Select a Channel

Turn the Channel Selector to select your desired channel. If the Voice announcement function is enable, your radio will automatically report the channel No. where the knob locates.

Transmit/ Receive

Keep pressing the PTT key and speak into the microphone with your normal voice, hold the radio about 2.5cm to 5cm from your mouth. (see Figure 4)

Programmed Functions (By Program Software)

The following functions could be programmed via software.

No.	Feature	Functionality
1	Voice Announcement	When you power ON the radio or turn the channel knob, the radio will automatically announce the current channel position.
2	Time Out Timer (TOT)	The TOT function limits the transmitting time of the radio to stop the user from occupying the channel for too long.
3	Battery Saver	To save battery
4	Low Battery Alert	When battery low, it will alert.
5	Scan	Tick function on, when press side button to activate scan.
6	VOX	Activate/De-active the VOX function.
7	Compander	Adopt compander will make the communication more clear by improving the 'Signal to Noise Ratio' and decrease the noise when receiving.
8	Scrambler	To make the communication private.

Specification

GENERAL	
Frequency Range	400-470MHz
Channel Capacity	16
Frequency Spacing	12.5kHz
Working Voltage	3.7V
Frequency Stability	± 2.5ppm
Operating Temperature Range	-25℃ ~ + 55℃
Antenna Impedance	50 Ω
Dimension (L × W × H)	100mm×49mm×32mm
Weight (including Antenna and Battery)	160g
TRANSMITTER	
Modulation Mode	11kΦF3E
Modulation Limited	± 5kHz/ ± 2.5kHz
Audio Distortion	≤ 5%
Residual frequency modulation	-40dB /-35dB
Adjacent Channel Power	-70dB /-60dB
Spurious and Harmonic Wave	-36dBm<1GHz -30dBm>1GHz
RECEIVER	
Receiving Sensitivity	≤ 0.18uV/0.22uV
Adjacent Channels Selectivity	≥ 70dB/60dB
Intermediation	≥ 60dB
Spurious Response	≥ 70dB
SNR	≥ 45/40dB
Audio Output Power	0.5W
Audio Distortion	≤ 5%

Note:

The above specifications are in according to the TIA/EIA-603 standard to test. Due to the continuous development of the technology, the above specifications are subject to change without notice.

QT Frequency Table (50)

67.0	82.5	100.0	123.0	151.4	171.3	189.9	210.7	250.3
69.3	85.4	103.5	127.3	156.7	173.8	192.8	218.1	254.1
71.9	88.5	107.2	131.8	159.8	177.3	196.6	225.7	
74.4	91.5	110.9	136.5	162.2	179.9	199.5	229.1	
77.0	94.8	114.8	141.3	165.5	183.5	203.5	233.6	
79.7	97.4	118.8	146.2	167.9	186.2	206.5	241.8	

DQT Codes Table (104)

D023N/I	D114 N/I	D174 N/I	D266 N/I	D411 N/I	D516 N/I	D703 N/I
D025 N/I	D115 N/I	D205 N/I	D271 N/I	D412 N/I	D523 N/I	D712 N/I
D026 N/I	D116 N/I	D212 N/I	D274 N/I	D413 N/I	D526 N/I	D723 N/I
D031 N/I	D122 N/I	D223 N/I	D306 N/I	D423 N/I	D532 N/I	D731 N/I
D032 N/I	D125 N/I	D225 N/I	D311 N/I	D431 N/I	D546 N/I	D732 N/I
D036 N/I	D131 N/I	D226 N/I	D315 N/I	D432 N/I	D565 N/I	D734 N/I
D043 N/I	D132 N/I	D243 N/I	D325 N/I	D445 N/I	D606 N/I	D743 N/I
D047 N/I	D134 N/I	D244 N/I	D331 N/I	D446 N/I	D612 N/I	D754N/I
D051 N/I	D143 N/I	D245 N/I	D332 N/I	D452 N/I	D624 N/I	OFF
D053 N/I	D145 N/I	D246 N/I	D343 N/I	D454 N/I	D627 N/I	
D054 N/I	D152 N/I	D251 N/I	D346 N/I	D462 N/I	D631 N/I	
D065 N/I	D155 N/I	D252 N/I	D351 N/I	D464 N/I	D632 N/I	
D071 N/I	D156 N/I	D255 N/I	D356 N/I	D465 N/I	D645 N/I	
D072 N/I	D162 N/I	D261 N/I	D364 N/I	D466 N/I	D654 N/I	
D073 N/I	D165 N/I	D263 N/I	D365 N/I	D503 N/I	D662 N/I	
D074 N/I	D172 N/I	D265 N/I	D371 N/I	D506 N/I	D664 N/I	

FCC 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.

RF Exposure Statement:

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

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.