iradio V68-Plus Analog Portable Radio User Manual

User Manual

For optimum performance from this product. please read this manual and the supplied Safety Information Booklet carefully before use. Do not use this radio or charge the battery in an explosive environment, such as gas, dust, smoke, etc.
Do not leave the radio in a dusty or wet environment. It is very important for the user to understand all instructions before using the radio.

Device Checking

Thank you for purchasing this portable transceiver. Before using:

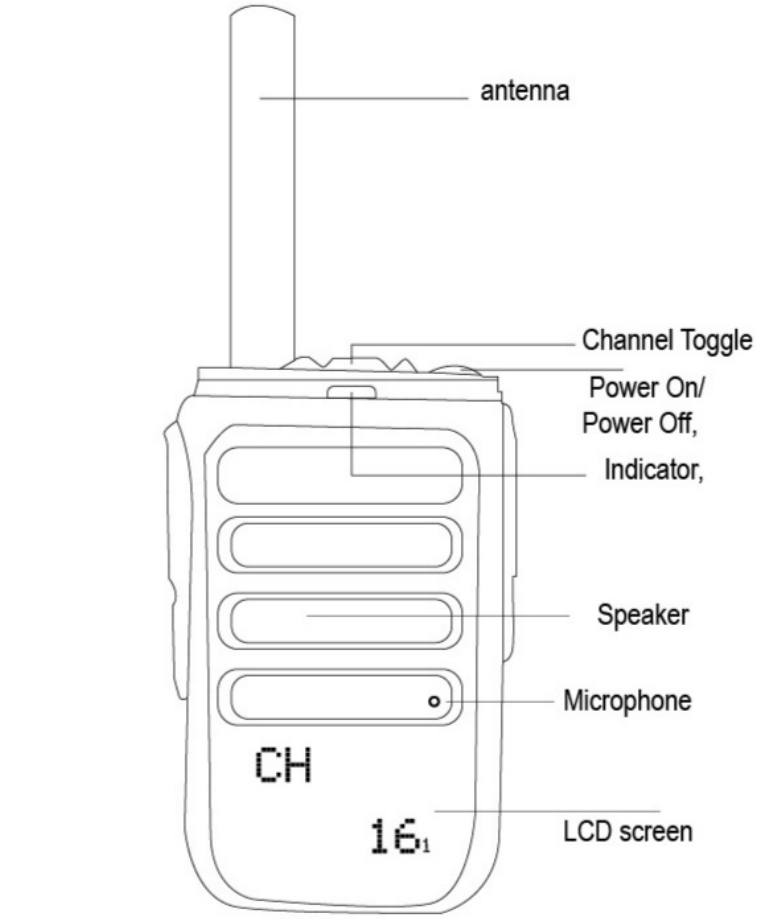
1. Please check whether the packing box is damaged or not.
2. Please unpack the packing box carefully, and confirm the following list of items are in the box. if any items are missing or have been damaged during shipment, please contact the radio supplier immediately.

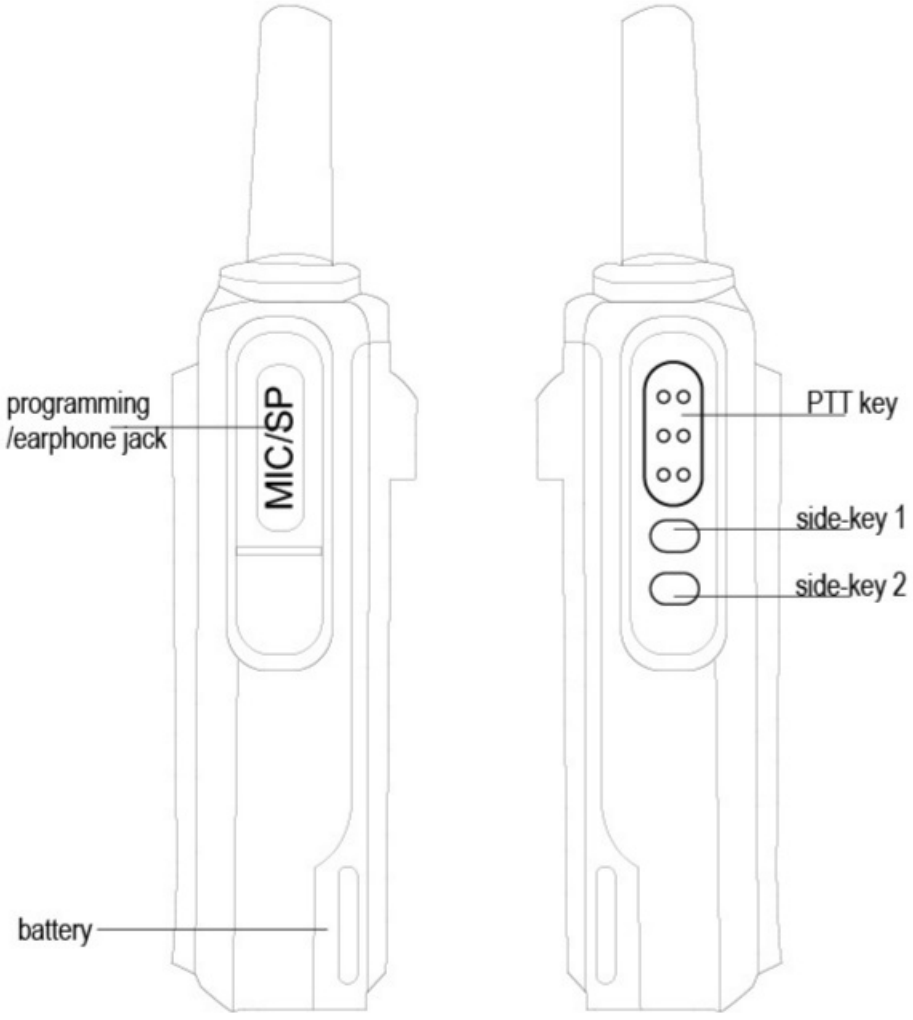
Contents

Supplied Accessories

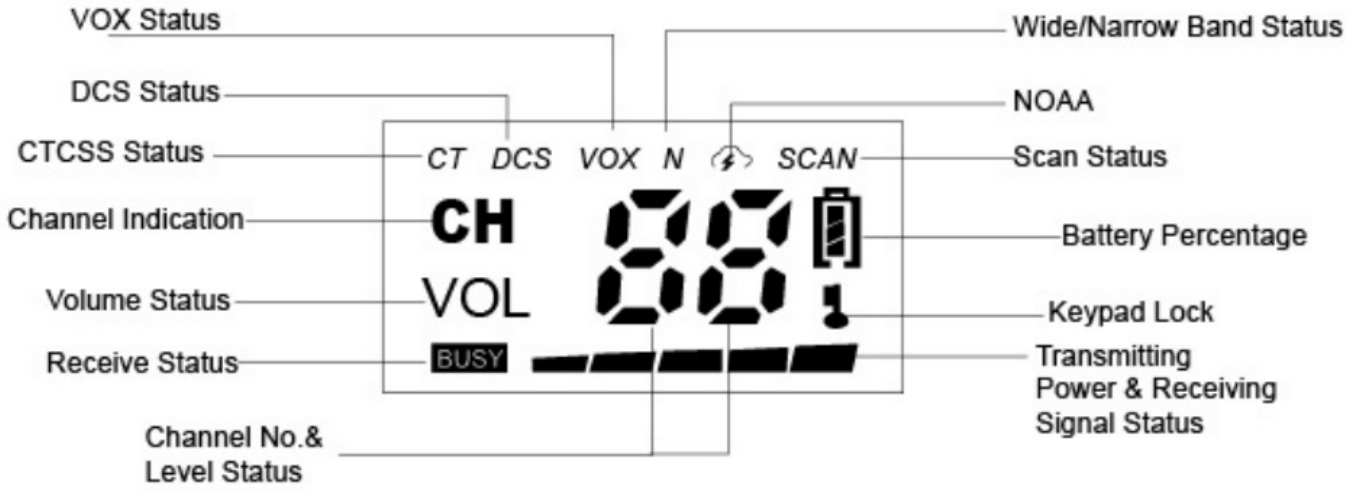
ITEM	QTY
Transmitter	1
Antenna	1
Li-ion Battery	1
Charger	1
Belt Clip	1
Strap	1
Manual	1

Familiar with the Transmitter


antenna
Channel Toggle
Power On/
Power Off,
Indicator,
Speaker
Microphone
CH
16
LCD screen


programming
/earphone jack
MIC/SP
battery
PTT key
side-key 1
side-key 2

Screen Icon



Function and Operation Instruction

Transmitting

Press the PTT and transmit the signal at the current channel, the indicator light turns red and the signal bar lights.of the transmitting power is high, the signal bar is fully lights, refer to Pic 1. If the transmitting power is low, the signal bar does not light fully, refer to Pic 2.

Pic 1.High Power

Pic 2. Low Power

Receiving

When the device receives the same frequency signal and matches the same CTCSS, the indicator light turns green, the speaker has audio and the receiving status and signal bar light at the same time, refer to Pic 3

Pic 3. Receiving Status

CTCSS/DCS Setting

Enable side key or sidekey2 to have CTCSS/DCS function via software, press the relevant key to enter the CTCSS/DCS manual setting. The screen will display the matched code with current channels, please refer to CTCSS/DCS table 5.1 & 5.2 CTCSS indicator and DCS indicator light at the same time, which means no CTCSS/DCS code at the current channel, refer to Pic 4;

CTCSS indicator lights, which means having CTCSS code at the current channel, refer to Pic 5: DCS indicator lights, which means having DCS code at the current channel, refer to Pic 6.

Changing the current CTCSS/DCS via channel switching key, long-press the key to fast-changing the code, then

press side-key 1 to confirm the setting, press side-key 2 to cancel and exit the setting.

Pic 4 no CTCSS/DCS Code

Pic 5 CTCSS Code

Pic 6 DCS Code

Monitor

Enables side-key 1 or side-key 2 to Monitor function, press the relevant key to enter the receiving status, then monitor the same signal with the current channel.

Scanning

Programming side-key 1 or side-key 2 to Scan function,long-press the relevant key to enter the scanning status, the Scan icon lights, and the scanning starts, refer to the scanning status of Pic 7.

Pic 7 Scanning Status

VOX

Programming the side-key 1 or side-key 2 to VOX function, press the relevant key to active the VOX icon,then the function actives, prefer to Pic 8.

Pic 8 VOX Status

Power Selection

Programming the side-key 1 or side-key 2 to the High power selection function, long-press the relevant key to change the current power. Select the transmitting power accordingly to make sure that the battery is used reasonably

Emergency Alarm

Programming the side-key 1 or side-key 2 to Emergency Alarm function, long press relevant key to transmit the alarm signal to the device which is with the same frequency.

Keypad Lock

The keypad will be locked when the device is unused for a certain time, and the keypad lock icon shows on the screen at the same time. The keypad can be unlocked by long-pressing the channels switching key or pressing the PTT button.

Pic 9 keypad Lock icon

NOAA

Programming the device to open the NOAA function, the NOAA icon lights, prefer to Pic 10. When the device is under standby status, it will receive the NOAA signals at the same time. When the device receives the 105Hz alarm signals, the NOAA status will be shown on the screen, receiving and broadcasting the alarm signal, prefer to Pic 11. Press the PTT button to exit the NOAA status. Programming side-key 1 or side-key 2 to NOM function, long press relevant key to enter NOM signals, prefer to Pic 12. Switching the NOM channels by channel selection key. When the device is on standby for 15s, it will enter scanning status to scan 11 NOAA channel signals. The same operation to exit the NOM.
After programming the side-key 1 or side-key 2, press the power button together with the NOM key to open or close NOAA.So set the NOM if needed

Pic 10 active NOAA

Pic 11 NOAA receiving status

Pic 12 NOAA channel

CTCSS/DCS & NOAA Tables

CTCSS Table

No.	CTCSS Code	No	CTCSS Code	No	CTCSS Code	No.	CTCSS Code
1	67.0 Hz	11	97.4 Hz	21	136.5 Hz	31	192.8 Hz
2	71.9 Hz	12	100.0 Hz	22	141.3 Hz	32	203.5 Hz
3	74 4 Hz	13	103.5 Hz	23	146_2 Hz	33	210.7 Hz
4	77.0 Hz	14	107.2 Hz	24	151.4 Hz	34	218.1 Hz
5	79.7 Hz	15	110.9 Hz	25	156.7 Hz	35	225.7 Hz
6	82.5 Hz	16	114.8 Hz	26	162.2 Hz	36	233.6 Hz
7	85.4 Hz	17	118.8 Hz	27	167.9 Hz	37	241.8 Hz
8	88 5 Hz	18	123.0 Hz	28	173_8 Hz	38	250.3 Hz
9	91.5 Hz	19	127.3 Hz	29	179.9 Hz		
10	94.8 Hz	20	131.8 Hz	30	186.2 Hz		

DCS Table

No.	DCS Code	No.	DCS Code	No.	DCS Code	No.	DCS Code
1	D023N	22	D143N	43	D315N	64	D532N
2	0025N	21	n1 57N	44	D331N	65	n546N
3	n076N	24	11155N	45	I1343N	66	Infini
4	n031N	25	0156N	46	n346N	67	MORN
c	nnermi	26	nig7A1	47	mciN	68	my/hi
6	D043N	27	D165N	48	D364N	69	D624N
7	D047N	28	D172N	49	D361aN	70	D627N
8	D051N	29	D174N	50	D371N	71	D631N
9	D054N	30	D205N	51	D411N	72	D632N
10	D065N	31	D223N	52	D412N	73	D654N
11	D071N	32	D226N	53	D413N	74	D662N
12	D072N	33	D243N	54	D423N	75	D664N
13	D073N	34	D244N	55	D431N	76	D703N
14	D074N	35	D245N	56	D432N	77	D712N
15	D114N	36	D251N	57	D445N	78	D723N
16	D115N	37	D261N	58	D446N	79	D731N
17	D116N	38	D263N	59	D465N	80	D732N
18	D125N	39	D265N	60	D466N	81	0734N
19	D131N	40	D271N	61	D503N	82	D743N
20	D132N	41	D306N	62	D506N	83	D754N
21	D134N	42	D311N	63	D516N		

NOAA Table

No.	Frequency
1	162.55000MHz
2	162.40000MHz
3	162.47500MHz
4	162.42500MHz
5	162.45000MHz
6	162.50000MHz
7	162.52500MHz
8	161.65000MHz
9	161.77500MHz
10	161.75000MHz
11	162.00000MHz

Technical Specification

General	
Frequency Range	151.82MHz,151.88MHz,151.94MHz,154.57MHz,154.60MHz
Channel Capacity	5
Working Voltage	37V DC
Working Mode	same frequency simplex/different frequency simplex
Antenna	whip
Frequency Stability	±2.5ppm
Transmitter	

·Output Power	2W
Modulation Mode	F3E
Maximum frequency deviation *(WIN)*	<5KHz /s2.5KHz
SNR (WIN)	-45dB/ -40dB
Transmitting Current	≤1300mA
Receive	
Sensibility (WIN)	0.22pV/ 0.25pV 12dB SINAD
Inter modulation (WIN)	65dB/ 60dB
Audio Distortion	<5%
Audio Power	≤1W (8 0)
Receiving Current	≤500mA
Standby Current	≤60mA

Note: Above parameters are subject to change without prior notice!

FCC Warnning

Any Changes expressly or modifications not 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.
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.

SAR tests are conducted using standard operating positions accepted by the 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 device 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 device are performed in positions and locations (e.g. at the ear and worn on the body)as required by the FCC.
This radio complies with FCC exposure limits for the uncontrolled environment at operating duty factors of up to 50% The device was tested for typical body-worn operations and head face up operations to keep the device at least 25mm from the face.

Documents / Resources

	iradio V68-Plus Analog Portable Radio [pdf] User Manual V68, Y23V68, V68-Plus Analog Portable Radio, Analog Portable Radio