

# Two-Way Radio

## T621 FRS User Manual



The T621 radio is durable two-way radio that operates on Family Radio Service(FRS) frequencies, requires no service fee of license.

### Features:

- <> 22 FRS Channels
- <> 121 Privacy Codes (38 CTCSS / 83 DCS)
- <> VOX
- <> Selectable Call Alert
- <> Scan Function
- <> Monitor Function
- <> Roger Beep Tone
- <> Key Pad Lock
- <> Battery Meter
- <> Battery Low Indicator

### Precautions:

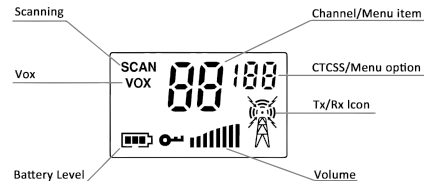
- <> To avoid the risk of burns, do not use the device if the aerial is damaged in any way.
- <> Don not use the device in a potentially explosive setting (e.g. Around pumps, on the lower deck of a boat or around a fuel-storage installation or chemical products).
- <> If traveling in a car or by bike, stop before using the device.
- <> Switch off the device if on an airplane or in a hospital. Never use the device in close proximity to a radio to avoid interference.
- <> Keep the transmitter and antenna at least 5cm from your face. Direct the antenna upwards and speak normally.
- <> Clean the device with a damp cloth. Avoid the use of cleaning agents and solvents.
- <> Do not modify the device in any way. In the event of damage occurring.

### FCC Requirements:

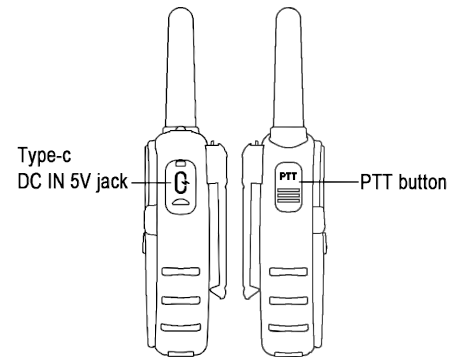
This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference. (Licensed radios are applicable); This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (Other devices are applicable)

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

### LCD DISPLAY



### CONTROLS



### Battery level display and low battery Alert

	Indicates that the battery is fully charged.
	When the battery is low, the indicator flashes. Charge the radio.

### Charging the Radio

1. Make sure your radio is turned OFF.
2. Connect the USB charger ( for approved USB charger only) to the radio's DC IN 5V jack. Connect the other end of the USB charger to a AC power outlet.
3. When the radio is charging, the red LED indicator light will light up.
4. When the radio is fully charged, the red LED indicator will go out.

## Basic operation of the radio :

Read this reference guide completely before attempting to operate the unit.

### Turning your radio ON / OFF


Press and hold the [ MENU / ⏻ ] button to turn your radio ON/OFF.


### Adjusting the Volume

Adjust the volume by pressing the [ ▲ ] or [ ▼ ] buttons.

## Talking on Your Radio

1. Hold your radio 3-5 cm from your mouth.
2. Press and hold the [ PTT ] button while speaking.

The  appears on the display.

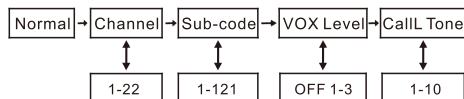
3. Release the [ PTT ] button. You can now receive incoming calls. When you do, the  appears on the display. To respond, repeat procedure from step 1.

In order to speak to someone, both your radios must be set to the same channel and Sub-Code. Refer to "Selecting a Channel and a Sub-Code" below.

## Selecting a Channel and a Sub-Code

### Select Menu

Your radio navigates through the Select Menu as follows:



### To select a channel:

1. Press the [ MENU / ⏻ ] button once, Choose [ ▲ ] or [ ▼ ] to the required channel.
2. Press the [ PTT ] button to save the selection, or press [ MENU / ⏻ ] button to enter the next function setting.

### To select a Sub-code

1. Press the [ MENU / ⏻ ] button twice, choose [ ▲ ] or [ ▼ ] to the required Sub-code.

2. Press the [ PTT ] button to save the selection


*Note: If no button is pressed within 15 seconds during the setting process, the device will return to standby mode.*

### Voice Operated Transmission (VOX)

Transmission is initiated by speaking into the microphone of radio or a headset (headset is not included) instead of the pushing the [ PTT ] button.

### To select the VOX level:

1. Press the [ MENU / ⏻ ] button three times to enter VOX setting mode, Advance until **VOX OF** blinks.
2. Press the [ ▲ ] or [ ▼ ] button to select of or sensitivity VOX levels 0-3.
3. Press the [ PTT ] button save and exit.

*Note: Level OF(OFF) disables VOX. Levels 1-3 set the sensitivity of the VOX circuit. Use level 1 in quiet environments, and use level 3 in very noisy environments. You can find the appropriate sensitivity level by speaking into the microphone. If the  flashes, your voice is accepted.*


### Transmitting a Call Tone

Your walkie talkies is equipped with 10 selectable call tones.

### To select a call tone:

1. Press the [ MENU / ⏻ ] button 4 times until **CA** appears.
2. Choose [ ▲ ] or [ ▼ ] to the desired call tone.
3. Press the [ PTT ] button to save the selection

### To transmit the selected call tone :

Press the [  ] button to transmit the selected call tone. The selected tone will automatically be transmitted for a fixed length of time.

## Features on Your walkie talkies





### Channel Scan Mode

Enables your walkie talkies to scan for active channels. When activity is detected, your walkie talkies lands (stays) on that channel (for 2 seconds). To transmit on that channel, press the PTT button. When activity on the landed channel ends, your walkie talkies continues scanning other channels.

### To turn the channel scan ON:

1. Press and hold [ ▲ / SCAN ] button 2 seconds until **SCAN** appears to turn ON channel scan.
2. [ MENU / ⏻ ] or [ PTT ] to turn OFF Scan mode.

### Key Lock

1. Press and hold [  ] until  appears to lock the keypad.
2. Press and hold [  ] until  disappears to unlock the keypad.

### LCD Backlight

The LCD display will automatically illuminate for 10 seconds after any button is pressed.

### Monitor Mode

Enables you to listen for weak signals on the current channel.


### To turn the Monitor Mode ON:

Press and hold the [ MON ] button for listening.

The  icon keeps blinking.

### To turn the Monitor Mode OFF:

Release the [ MON ] button to return to "Normal" mode.

The  icon stops blinking.

### Roger Beep

Sounds to indicate the end of a PTT or VOX transmission.

It can be heard through the speaker when Key Beep is on. It cannot be heard through the speaker when Key Beep is on, but not when it is turned off.

1. Press the [ MENU / ⏻ ] button 6 times until **ro** appears.
2. Choose [ ▲ ] or [ ▼ ] to select **ON/OFF** to turn on or off the Roger Beep.
3. Press the [ PTT ] button to save the selection.

### Automatic Power Save

For better battery life, your walkie talkies is designed to switch to Power Save mode when there has been no transmissions after 10 seconds. The walkie talkies can receive transmissions in this mode.

## SPECIFICATIONS

Channels 22 FRS Channels+121 privacy Codes  
Operating Frequency UHF 462.55--467.7125MHz  
Power Source 3.7V Rechargeable Li-ion battery

## FRS FREQUENCY CHART

Ch.	Frequency	Ch.	Frequency	Ch.	Frequency	Ch.	Frequency
1	462.5625	7	462.7125	13	467.6875	19	462.6500
2	462.5875	8	467.5625	14	467.7125	20	462.6750
3	462.6125	9	467.5875	15	462.5500	21	462.7000
4	462.6375	10	467.6125	16	462.5750	22	462.7250
5	462.6625	11	467.6375	17	462.6000		
6	462.6875	12	467.6625	18	462.6250		

## CTCSS PRIVACY FREQUENCY CHART

Code	Freq.(Hz)	Code	Freq.(Hz)	Code	Freq.(Hz)
0	OFF	13	103.5	26	162.2
1	67.0	14	107.2	27	167.9
2	71.9	15	110.9	28	173.8
3	74.4	16	114.8	29	179.9
4	77.0	17	118.8	30	186.2
5	79.7	18	123.0	31	192.8
6	82.5	19	127.3	32	203.5
7	85.4	20	131.8	33	210.7
8	88.5	21	136.5	34	218.1
9	91.5	22	141.3	35	225.7
10	94.8	23	146.2	36	233.6
11	97.4	24	151.4	37	241.8
12	100.0	25	156.7	38	250.3

## DCS PRIVACY FREQUENCY CHART

Code#	DCS Code	Code#	DCS Code	Code#	DCS Code	Code#	DCS Code	Code#	DCS Code	Code#	DCS Code
39	023	53	114	67	174	81	315	95	445	109	631
40	025	54	115	68	205	82	318	96	464	110	632
41	026	55	116	69	223	83	343	97	465	111	654
42	031	56	125	70	226	84	346	98	466	112	662
43	032	57	131	71	243	85	351	99	503	113	664
44	043	58	132	72	244	86	364	100	506	114	703
45	047	59	134	73	245	87	365	101	515	115	712
46	051	60	143	74	251	88	371	102	532	116	723
47	054	61	152	75	261	89	411	103	546	117	731
48	065	62	155	76	263	90	412	104	565	118	732
49	071	63	156	77	265	91	413	105	606	119	734
50	072	64	162	78	271	92	423	106	612	120	743
51	073	65	165	79	306	93	431	107	624	121	754
52	074	66	172	80	311	94	432	108	627		

## **FCC Warning**

### **15.19 Labeling requirements.**

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.

### **15.21 Information to user.**

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

### **15.105 Information to the user.**

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.

### **Absorption Rate (SAR) information:**

This device meets the government's requirements for exposure to radio waves. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons regardless of age or health.

## **FCC RF Exposure Information and Statement**

The SAR body limit of USA (FCC) is 8.0W/kg averaged over one gram of tissue.

The SAR face limit of USA (FCC) is 0.4 W/kg averaged over ten gram of tissue. This device was tested for typical body-worn operations with the back of the device kept 0mm from the body and 25mm in front of face. To maintain compliance with FCC RF exposure requirements, use accessories that maintain an appropriate separation distance between the user's body and the back of the device.

The use of belt clips, holsters and similar accessories should not contain metallic components in its assembly. The use of accessories that do not satisfy these requirements may not comply with FCC RF exposure requirements, and should be avoided. Use only the supplied or an approved antenna.