



QUANSHENG

TWO-WAY RADIO User' s Manual

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TK11 Two Way Radio

FCC WARNING

■FCC Compliance Statements:

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.Changes or modifications not expressly approved by the

party responsible for compliance could void the user's authority to operate the equipment.

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 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.

WARNING: MODIFICATION OF THIS DEVICE TO RECEIVE CELLULAR RADIOTELEPHONE SERVICE SIGNALS IS PROHIBITED UNDER FCC RULES AND FEDERAL LAW.

■ Licensing Information

Use our radio in USA is subject to the rules & regulations of FCC. Changes or modifications not expressly approved by our may void the user authority granted by the FCC to operate this radio and should not be made. To comply with FCC 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 certified by an organization representative of the user of those services. Replacement of any transmitter component (crystal, semiconductor, etc) not authorized by the FCC equipment authorization for this radio could violate FCC 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.

CE WARNING:

Use the two way radio in the environment with the temperature between 0-40°C, otherwise, it may damage your two way radio. It can be operating under 2000m.

Hereby, Our declare that the radio equipment type two way radio is compliance with Directive 2014/53/EU. For this device, Head SAR and Body SAR was performed with the device configured in the positions according to EN62209-2-2010, and face-up SAR was performed with the device 25mm from the phantom, and Body SAR was performed with the device 0mm from the phantom. Body SAR was also performed with the headset and belt clip attached and without.

Thank you for purchasing this radio. We believe this easy-to-use radio will provide reliable and dependable communication. We know that you will be pleased with the quality and features of this product.

PRECAUTIONS BEFORE USING

This radio incorporates excellent design and the latest advanced technology.

The following advice will give you important information about how to operate this portable radio safely.

Please put the radio and accessories where the children cannot reach.

Maintenance can only be performed by professional technicians.

Please use the standard battery pack and charger in order not to destroy the radio.

Please use the standard antenna, in order not to shorten the communication distance.

Do not expose the radio to sunlight for a long period of time, nor put it near the heat.

Do not put it in extreme dust or wet environment.

Do not clean the radio with fierce chemical products, cleaning agents or strong washing

agents.

Do not transmit when the antenna is not installed.

If you find bad smell or smog, please turn off the radio immediately. And take the battery off the radio, then contact with the agent.

Charging Notes:

- Battery packs are not charged when they are shipped. Charging them before use.
- Initially charging the battery pack after purchase or extended storage (longer than 2 months) will not bring the battery pack to its greatest capacity or its normal charge, which can be done only after repeated charging and discharging two or three times.
- Do not use the radio during charging. This will affect the normal charging of the battery pack, causing damage to the radio and accidents.
- After the battery pack is fully charged, please take it out of the charger-base.
- Although using the right charging ways, but the battery does not gain capacity or using time, it means the battery life is near the end, please change a new battery pack.
- Please adopt original factory battery pack and charger. They are available with your local agent.
- If you have question about non original factory battery pack and accessory, please do not use them. Or it will cause dangerous accidents.

Charger-Base Instructions:

- Plug the lithium battery or radio equipped with the lithium battery into the charger base, and ensure that the battery is in normal contact with the charging base.
- The green light is steady on when the charging base is empty; When the red light is on, charging begins; When full, the green light is steady on.
- After the lithium battery pack is fully charged, take it out of the charger.

Note:

1. When the radio is charging (base-charger /Type-C charging), it is forbidden to transmit so as to avoid damage to the radio and accidental danger.
2. When the radio is charged (base-charger /Type-C charging), the receiving effect will

be affected.

3. Do not short circuit the battery terminal or discard the battery in the fire.
4. Do not remove the battery pack cover without permission.

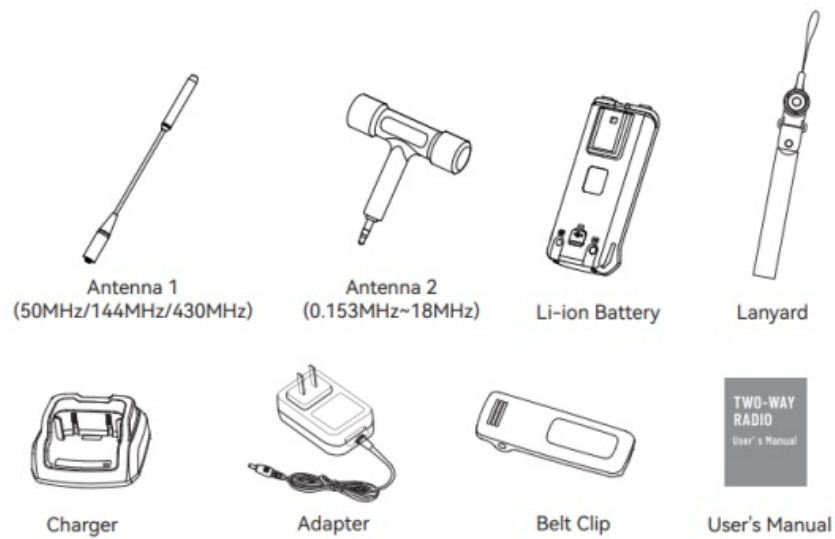
Complete Radio Accessories

Carefully unpack the portable radio. We suggest that you check the following items before you throw away the packing materials.

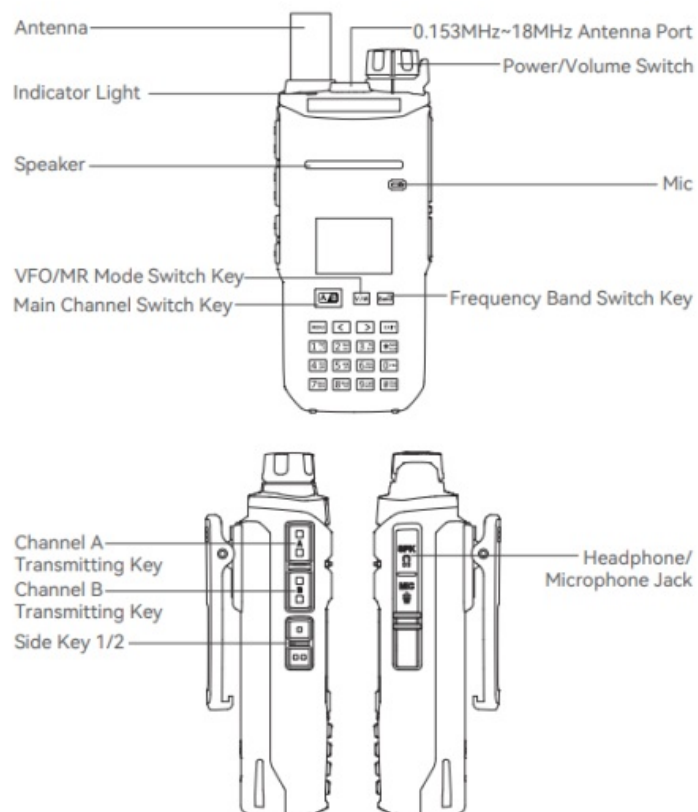
Accessory List

Item	Qty
Two Way Radio Body	1
Antenna	2
Li-ion Battery	1
Belt Clip	1
Charger	1
Adapter	1
User's Manual	1
Lanyard	1

Supplied Accessories



Radio Diagram



Key Operation Instructions (1)

PTT Key

- Switch key for transmitting and receiving, press this key when transmitting, and speak into the microphone;
Release this key when receiving.
PTT1: Channel A transmitting key

PTT2: Channel B transmitting key

Side Key

- Initial Function:

Side key 1: Short press: monitor; Long press: 1750Hz.

Side key 2: Short press: flashlight; Long press: emergency alarm.

The functions that can be set by short/long press of the side keys are listed in the table below:

Warning	Press to stak the emergency alarm, according to the programming software set the working mode alarm.
Transmit Output Power	Allows users to switch between high and low power.
Monitor	Allows users to turn monitor on or off. Ignore all received signaling and monitor all activities in the channel. You can press this key to monitor noise and adjust the volume.
FM Radio	Turn on/off FM radio mode.
Scan	Allows the user to turn on/off scan function.
VOX	Allows the user to turn on/off the VOX function for the channel.
Transmitting 1750	Turn on 1750 continuous transmitting.
Flashlight	Turn on/ off flashlight.

Key Operation Instructions (2)

A/B Key

- In the main interface, switch the main and sub channel, and the channel displayed with ► is the main channel.

V/M Key

- In the main interface, switch frequency mode and channel mode.

Band Key

- Switch frequency bands in VFO mode.

Number Key Instructions:



0	Listen to FM radio.
1	Shok press to adjust the squelch SQL level, and long press to adjust the frequency step value.
2	Shok press to adjust the volume of channels A and B, and long press to change the channel display mode.
3	Shok press to stak the one-key frequency matching, and long press to turn on/off the dual receive function.
4	Shok press to stak the CTCSS/DCS detection, and long press to turn on/off the noise reduction function.
5	Shok press to listen to the weather channel (channel A is valid), long press to turn on and off the voice-change function.
6	Shok press to adjust the transmit power, and long press to turn on/off the VOX function.
7	Shok press to stak the spectrum analyzer function, and long press to turn on/off the reverse frequency talk around function.
8	Shok press to select the receiving modulation mode (FM,AM,LSB,USB,CW), and long press to store channel.
9	Shok press to jump to the one key call channel, long press to switch to NOAA A scanning mode (valid only on NOAA channel).





*	Shok press to enter the dialing call interface, long press to turn on the scanning function.
#	Shok press to enter the frequency or channel number adjustment interface, long press to turn on/off the keypad lock.

LCD Display

You could check the different designated symbols in the LCD.

The following chart helps you to understand them.

	Signal Strength. The smaller the number of grids, the weaker the signal.
HML	Transmitting output power indicator. The current transmitting output power is high(H), medium(M) or low(L).
CT DCS	CT will appear when current code is CTCSS code. DCS will appear when current code is DCS code.
	Voice prompt is on.
N	The radio work in narrow band mode.
VOX	Indicates that the VOX function is enabled the radio will automatically start transmitting on the main channel when the microphone detects a certain sound level. You can adjust VOX sensitivity in the menu. If you press the PTT key, VOX will turn off, and the radio will switch to manual transmission.
+/-	+ It means transmitting frequency equals receiving frequency plus a frequency deviation . – It means transmitting frequency equals receiving frequency minus a frequency deviation.

DTMF T ONE	DTMF or 5-tone signal decoding is on.
DR	Turn on dual receive.
	Keypad locking.
	Display of the current battery. When the battery is nearly exhausted, it shows  . It means the battery needs to charge and the radio will send low power alarm prompt regularly.
	Main channel indicates. All operations are aimed at main channel.
SCR	The voice encryption of this channel is on.
R	Talk around mode. Receive and transmit frequency reverse.
DN	Noise reduction sign.
MV	Change of voice sign.
NS	NOAA automatic scan.
SAME	Turn on NOAA SAME decoding.
S	Power saving.

SC	Scan.
RX	Receiving.
TX	Transmitting.

Menu Information

Press the MENU key to enter the main menu. Press the Left/Right keys or directly enter a number to select the main MENU item, and press the Menu key to confirm the selection, and press EXIT to return to the Upper Menu.

Item Name	No.	Menu Function	Function Description
	1-1	SAVE	(Off, 1:1,1:2,1:3,1:4), power saving ratio.
	1-2	ABR	Automatic Backlight Control (Off, 1-5, 10, 15, 20, 25, 30s to turn off backlight)
	1-3	BEEP	Key tone switch (off, on)
	1-4	VOICE	Voice prompt (off, on)
	1-5	MDF	Channel Display Mode (Channel Frequency, Channel No., Channel Name)
	1-6	AUTOLK	Automatic Keyboard Lock (Off, On)
	1-7	MIC	MIC Sensitivity (1-5 Level 1-5)
	1-8	PONMSG	Power On Display Interface (Full Display, Custom, Voltage, Image, None)

GENERAL	1-9	DENOISE	Voice Noise Reduction (Off, 1-6: Level 1 to 6) , reduces background noise
	1-10	MAGICV	Magic Voice Selection (Off, 1-5: Level 1 to 5)
	1-11	SHOW RESET TIME	8-200s, no operation timeout and then automatically exit the menu settings
	1-12	SKEY1_S	Side key 1 shok press function selection.
	1-13	SKEY1_L	Side key 1 long press function selection.
	1-14	SKEY2_S	Side key 2 shok press function selection.
	1-15	SKEY2_L	Side key 2 long press function selection.
	1-16	RESET	Reset (VFO: reset parameters excluding channel parameters; full reset: reset all parameters)

Item Name	No.	Menu Function	Function Description
	2-1	SQL	Squelch level 0-9.
	2-2	STEP	Step Frequency (100Hz, 500Hz, 1K, 1.5K, 2K , 2.5K, 5K, 6.25K, 8.33K, 9K, 10K, 12.5K, 15 K, 20K, 25K)100Hz and 500Hz can only be set in F1, F2 and F3.
	2-3	TXP	Transmit Power (High, Medium, Low)
	2-4	TR CTC/DCS	CTCSS/DCS codec, simultaneously configured to receive and transmit CTCSS/DCS (none, CTCSS,DCSN,DCSI)

CHANNEL	2-5	R CTC/DCS	CTCSS/DCS decoding, configured to receive CTCSS/DCS (none, CTCSS,DCSN,DCSI)
	2-6	T CTC/DCS	CTCSS/DCS coding, configured to send CTCSS/DCS (none, CTCSS,DCSN,DCSI)
	2-7	SFT-D	Offset frequency direction (none: transmit frequency = receive frequency; + : transmit frequency = receive frequency + offset frequency; – : transmit frequency = receive frequency – offset frequency)
	2-8	OFFSET	Offset frequency (0-999.9999M)
	2-9	W/N	Bandwidth configuration (wideband: 25 KHz, narrowband: 12.5 KHz)
	2-10	MW/SW-BW	Medium-wave and shok-wave channel bandwidth configuration: 2KHz 2.5KHZ 3KHz 3.5KHz 4KHz 4.5KHz 5KHz 5.5KHz
	2-11	SCR	Encrypted calls (off, 1-10)
	2-12	BCL	Busy channel lock (off, on)
	2-13	DEMODO	Channel modulation mode: FM, AM, LSB, USB
	2-14	SIGNAL	Selective call code type (DTMF, 5-tone)
	2-15	PTT-ID	DTMF PTT-ID transmit mode (off: no transmit, stak transmit: call stak transmit up code, end transmit: call end transmit down code, always : both transmit)
	2-16	DECODE	Signaling decoding enable signal (off, on)

Item Name	No.	Menu Function	Function Description
	2-17	SEARCH LIST	Selecting the scan list for this channel allows all channels in the list to be scanned when scanning is initiated on this channel
	2-18	MEM-CH	Store channel (# key to switch input method, select channel and input channel name through left/right key and number key), click MENU key to complete the storage.
	2-19	DEL-CH	Delete the channel (select the channel by the left/right key or number key), click the MENU key to complete the deletion.
WORK	3-1	VOX	VOX setting (off, 1-10: highest sensitivity at level 1)
	3-2	DUAL RX	Dual receive switch (off, on)
	3-3	TOT	Maximum time for continuous transmit, (off, 1-10 minutes), timeout to end transmit and alarm prompts.
	3-4	STE	Tail tone elimination off,on
	3-5	RP-STE	Repeater confirmation tone (off, 100-1000ms)
	3-6	QUICK CALL	Setting the shortcut channel (select channels by left/right and number keys.)
	3-7	ROGER	Transmit end tone (none: no end tone, beep, frog, or user-defined voice 1-5), and download the customized voice through the programming software.

	3-8	AL-MOD	Alarm mode (SITE: local alarm; TONE: transmit alarm signal + local alarm)
	3-9	SBAR	Signal strength bar display switch (off, on), display received signal field strength.
	3-10	MWSW AGC	Medium wave, short wave automatic gain control (on, off), improve the reception of strong signals.
	3-11	CW PITCH FREQ	Under CW mode frequency deviation (400-1500Hz)

Item Name	No.	Menu Function	Function Description
	4-1	SC-REV	Search recovery mode (TO: continue scanning after 5s; CO: wait for the signal to disappear and continue scanning; SE: stop scanning after receiving the signal.)
	4-2	F1 START FREQ	VFO Mode – F1 band scan start frequency: 0.153-1.8MHz
	4-3	F1 END FREQ	VFO Mode – F1 band scan stop frequency: 0.153-1.8MHz
	4-4	F2 START FREQ	VFO Mode – F2 band scan start frequency: 1.8-18MHz
	4-5	F2 END FREQ	VFO Mode – F2 band scan stop frequency: 1.8-18MHz
	4-6	F3 START FREQ	VFO Mode – F3 band scan start frequency: 1.8-32 MHz

VFO SCAN	4-7	F3 END FREQ	VFO Mode – F3 band scan stop frequency: 18-32 MHz
	4-8	F4 START FREQ	VFO Mode – F4 band scan start frequency: 32-76 MHz
	4-9	F4 END FREQ	VFO Mode – F4 band scan stop frequency: 32-76 MHz
	4-10	F5 START FREQ	VFO Mode – F5 band scan start frequency: 108-136 MHz
	4-11	F5 END FREQ	VFO Mode – F5 band scan stop frequency: 108-136 MHz
	4-12	F6 START FREQ	VFO Mode – F6 band scan start frequency: 136-174 MHz
	4-13	F6 END FREQ	VFO Mode – F6 band scan stop frequency: 136-174 MHz
	4-14	F7 START FREQ	VFO Mode – F7 band scan start frequency: 174-350 MHz
	4-15	F7 END FREQ	VFO Mode – F7 band scan stop frequency: 174-350 MHz
	4-16	F8 START FREQ	VFO Mode – F8 band scan start frequency: 350-400 MHz

Item Name	No.	Menu Function	Function Description
	4-17	F8 END FREQ	VFO Mode – F8 band scan stop frequency: 350-400 MHz

4-18	F9 START FREQ	VFO Mode – F9 band scan start frequency: 400-470 MHz
4-19	F9 END FREQ	VFO Mode – F9 band scan stop frequency: 400-470 MHz
4-20	F10 START FREQ	VFO Mode – F10 band scan start frequency: 470-580 MHz
4-21	F10 END FREQ	VFO Mode – F10 band scan stop frequency: 470-580MHz
4-22	F11 START FREQ	VFO Mode – F11 band scan start frequency: 580-760 MHz
4-23	F11 END FREQ	VFO Mode – F11 band scan stop frequency: 580-760 MHz
4-24	F12 START FREQ	VFO Mode – F12 band scan start frequency: 760-1000MHz
4-25	F12 END FREQ	VFO Mode – F12 band scan stop frequency: 760-1000MHz
4-26	F13 START FREQ	VFO Mode – F13 band scan start frequency: 1000-1160MHz
4-27	F13 END FREQ	VFO Mode – F13 band scan stop frequency: 1000-1160MHz
5-1	SEL LIST	Select Scan List to Edit (1-32, corresponding to 32 scan lists)

MR SCAN	5-2	EDIT LIST	<p>View and Edit Current Scan List</p> <p>Current Channel: The currently displayed MR channel</p> <p>P1 XXXX: Priority Scan Channel 1 P2 XXXX: Priority Scan Channel 2</p> <p>Add Channel to Scan List – Channels can be added to the scan list. Any channel can be removed from the scan list using the MENU key.</p>
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Item Name	No.	Menu Function	Function Description
	5-3	PRO 1 CHAN	Select Priority Scan Channel 1 for Current List – Choose priority scan channel 1 from the scan list.
	5-4	PRO 2 CHAN	Select Priority Scan Channel 2 for Current List – Choose priority scan channel 2 from the scan list.
	5-5	EDIT NAME	Edit the current scan list name.
	6-1	TIMEOUT	Edit Frequency Measurement Maximum Duration (8-32s) – If no valid signal is detected within the timeout period, a failure notification will be displayed.

FREQ SCAN	6-2	DECODE MODE	Select the CTCSS,DCS detection mode. Normal mode: detects standard CTCSS/DCS. Expek mode: cracks non-standard CTCSS,DCS. Self-learn mode: crack non-standard inveker DCS.
	6-3	DCS MODE	When the detection mode is Expek Mode, select DCS 23bit or 24bit.
	6-4	DET THRES	Set the number of detection times to determine the validity of the CTCSS/DCS.
DTMF	7-1	LOCAL ID	Identity code, DTMF communication local ID.
	7-2	UPCODE	DTMF up code
	7-3	DWCODE	DTMF down code
	7-4	DELIMITER	Separation code
	7-5	GRPCODE	Group call code
	7-6	SIDE TONE	DTMF sidetone switch (Off, On)
	7-7	DECODE RSP	DTMF decoding response (Off, Ring, Auto response, Ring+Auto reply)
	7-8	HOLD TIME	DTMF auto reset time (5s-60s)
	7-9	PRE TIME	DTMF pre-carrier time before sending code (30-990ms)

Item Name	No.	Menu Function	Function Description
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	7-10	1ST TIME	Duration of sending DTMF first code (30-990 ms)
	7-11	*# TIME	Duration of sending special characters (30-990ms)
	7-12	ON TIME	Duration of sending normal characters (30-990ms)
	7-13	OFF TIME	Time between sending two codes (30-990ms)
	7-14	SEL CONTACT	Select the contact for DTMF call, (select the contact by left/right key and number key, click MENU key to select it will jump back to the main interface, then you can call it directly)
	7-15	EDIT CONTACT	Add, edit contact
	7-16	DEL CONTACT	Delete contact
	8-1	LOCAL ID	Identity code, 5TONE Communication local ID
	8-2	UPCODE	5TONE Upline code
	8-3	DWCODE	5TONE Downline code
	8-4	REPEAT TONE	Repeat tone
	8-5	GRPCODE	Group call code
	8-6	SIDE TONE	5TONE Side tone switch (Off, On)

5TONE	8-7	DECODE RSP	5TONE Decode response (Off, Ring, Auto response, Ring+Auto reply).
	8-8	HOLD TIME	5TONE Auto reset time (0s-60s)
	8-9	PRE TIME	5TONE Pre-carrier time before sending code (30-990ms)
	8-10	1ST TIME	Duration of sending 5TONE first code (30-990ms)
	8-11	ON TIME	Length of time to send normal characters (30-990ms)
	8-12	OFF TIME	Time between sending two codes (30-990ms)
	8-13	SEL CONTACT	Select the contact for 5TONE call, (select the contact by left/right key and number key, click MENU key to select it will jump back to the main interface, then you can call it directly).
	8-14	EDIT CONTACT	Add, edit contact

Item Name	No.	Menu Function	Function Description
	8-15	DEL CONTACT	Delete contact
	8-16	STANDARD	Standard selection (EIA, EEA, CCIR, ZVEI1, ZVEI2, User-defined)
	8-17	SYM FREQ	View the frequencies corresponding to all 5TONE codes.

NOAA	9-1	SCAN	NOAA Channel auto scan switch (Auto scan, Manual scan)
	9-2	SQL	NOAA channel squelch level
	9-3	DECODE	Decoding mode (1050Hz, SAME).
	9-4	EVENT MODE	Event mode (default, all on, all off, user-defined).
	9-5	LOC MODE	Location mode (Single Address, Multi-Addresses, Any Address, where Single Address and Multi-Address are user-defined to select the address list)
	9-6	EVENT SET	Event setting, use MENU key to enter the next level menu to view and modify the on and off of each event (only menu 9-4 in user-defined mode can modify the on and off of the event).
	9-7	LOC SET	Location setting, use MENU key to enter the next level menu to view and modify the address list of the current monitor (only in single address and multi-address mode can modify and delete the location information).
	9-8	EVENT LIST	Event list, use the MENU key to enter the next level menu to view the list of received alarm events. The MENU key can be used to view the event information in each event menu.
HOSTINF	10-1	HOST NAME	View the local user name.
	10-2	LOGO1	Edit the power-on interface LOGO1 character .

O	10-3	LOGO2	Edit the power-on interface LOGO2 character .
	10-4	VERSION	View software version

Common Operations Introduction

1. Switching Main Channel

Press the A/B key to switch the main channel up or down, Indicated main channel.

2. Single/Dual Receive Switching

Long press number key 3 to switch, the display shows DR for dual receive, or when menu 3-02 selects on dual receive, short press number key 2 to adjust the volume level of channel A and channel B with the left/right keys.

3. Frequency/Channel Mode Switching

In the main interface, press the VFO/MR key to switch between frequency mode and channel mode.

VFO Mode: Press the left/right keys to adjust frequency by frequency step, or short press the # key and use the number keys to input the receive frequency.

Channel Mode: Press the left/right keys to select the channel by frequency step, or short press the # key and use the number keys to input the channel number.

4. Select VFO Frequency

VFO Mode: Press the left/right keys to adjust frequency by frequency step, or short press the # key and use the number keys to input the receive frequency.

5. Select Receive Modulation Mode

Press the 8 key to select the receive demodulation mode: AM, LSB, USB, FM, CW.

6. Select Channel

Channel Mode: Press the left/right keys to select the channel by frequency step, or short press the # key and use the number keys to input the channel number.

7. Select Frequency Band

In VFO mode, use the BAND key to select the desired frequency band.

Channel A: F1, F2, F3, F4, F5, F6, F7, F8, F9, F10, F11

Channel B: F5, F6, F7, F8, F9, F10, F12, F13.

8. Store Channel

In MR mode, you can copy the current channel to new channel.

In VFO mode, set the receive frequency, offset frequency direction, wide/narrow bandwidth, transmit and receive code, transmit power, signaling decoding, voice encryption, and other parameters. Then, long press the 8 key to store the channel, or press MENU to enter menu 2-18, press MENU again to enter, use the left/right keys to select the channel number to store, or use the number keypad to input the channel number. Press MENU, enter the channel name, and press “MENU” again to store the channel. When selecting a stored channel, “CH-XXX” will display, indicating that the channel is already stored. “XXX” indicates that the channel is empty.

9. Delete Channel

Press MENU to enter menu 2-19, use the left/right keys to select the channel number to delete, or input the channel number using the number keypad. Press MENU, and “SURE?” will display. Press MENU again to delete the channel.

10. Set Receive and Transmit CTCSS/DCS

Enter menu 2-04 to set the receive and transmit CTCSS/DCS

Enter menu 2-05 to set the receive CTCSS/DCS

Enter menu 2-06 to set the transmit CTCSS/DCS

Press the # key to select CT, DCSN, or DCSI, and use the left/right keys to choose the required CTCSS/DCS from the list, or directly input using the keypad (CT: 60.0~260.0), (DCS: 000~777).

11. Spectrum Analyzer

After setting the center frequency, press the key 7 to enter the spectrum analyzer.

Press key 1 to modify the centre frequency, short press ◀▶ key to change the value, long press ◀▶ key to change the value continuously, or press the numeric key to input the centre frequency, EXIT to exit the editing.

Press key 2 to modify the reference field strength value, short press ◀▶ to change the value, long press ◀▶ to change the value continuously, EXIT to exit the editing.

Press key 3 to modify the scan bandwidth, short press ◀▶ to change the value, long press ◀▶ to change the value continuously, 128KHz~6.4MHz, EXIT to exit the editing.

Press key 4 to modify Mark point position, short press ◀▶ to change the value, long press ◀▶ to change the value continuously, or press the numeric key to input Mark frequency, note that the input frequency must be within the Span range, EXIT to exit editing.

Press the side key to monitor the centre frequency signal.

Press key 5 to copy the Mark point frequency to the centre frequency.

12. Automatic Signal Search

Set the correct receive frequency and press 4 key to start searching for signals. Once a valid signal is received, it will display the detected transmitting signal. Press MENU to store the detected signal to the current channel. SCAN CMP indicates that a valid signal was found and automatic search has stopped. SCAN FAIL indicates that no valid signal was found and automatic search has stopped.

13. Frequency Meter or One-Key Frequency Matching

One-key frequency matching requires a strong signal, with both the transmitter and receiver having antennas installed and not too far apart. Press 3 key on the receiver to enter the frequency meter interface.

Once a strong signal is received, it will display the signal carrier frequency and transmitting signaling (CTCSS or DCS). Press the * key to re-measure the frequency. When measuring non-standard CTCSS/DCS, if no valid value can be detected, you can enter menu 6-02 to select either “Expert Mode” or “Self-learn Mode.” In self-learn mode, the detected CTCSS/DCS will not be displayed, but you can press MENU to store it for later use.

After detecting a valid frequency, press the MENU key to store the current frequency and transmitting signaling to the designated channel.

Press EXIT or PTT to exit the frequency meter during frequency measurement.

Note: Self-learn mode can only store frequency in the first 100 channels.

14. DTMF and 5-Tone Calling

(14.1) DTMF or 5-TONE Calling

Menu 2-14 is used to set DTMF or 5-tone selective calling:

1.Manual Dialing: Long press PTT and press the number keys on the panel to dial.
A/B key: A, MR/VFO: B, Left: C, Right: D.

2.Automatic Dialing: Press the * key and enter a 3-digit number, then short press PTT to initiate the DTMF call. During transmitting, the radio will automatically send its own ID number.

Single Call: Send the target ID number along with its own ID. For example, 123*100 means the user with ID 100 is calling the user with ID 123. Group Call: Replace one or more digits of the ID number with a group call code to call a group of users.

The group call code is configured using the programming software.

For example, if the group call code is set to #: sending 12# will call IDs 120–129 (10 units). Sending 1AA will call IDs 100–199 (100 units).

All Call: Sends a 3-digit group call code to call all users.

Receiving: Menu 2-16 must be set to "ON." When the received code is a DTMF or 5-tone personal ID code, successful decoding will display the caller's username. If the call is successful, you can communicate with the caller within the reset time. After the reset time expires, re-decoding is required. The automatic response after receiving a call can be set in Menu 7-07 and 8-07.

(14.2) PTT ID

Initiation: You can set the DTMF or 5-tone up and down line codes.

Menu 2-15 enables the up and down line codes. Each time the PTT is pressed, the up line code is sent, and when PTT is released, the down line code is sent.

15. Emergency Alert

Emergency Alerts are used to indicate an emergency situation and you can initiate an emergency call at any time or on any screen, even if there is activity on the current channel.

Press the emergency alarm key to activate local alarm or send alarm signal automatically, alarm type is selectable: local alarm/remote alarm.

Press any key to exit alarm mode.

16. Scanning

Starting Scan:

Method 1: Long press the * key to start or exit scanning.

Method 2: Use the side key to turn the scan switch on or off.

Frequency Scanning: During scanning, you can press the left/right keys to change the scanning direction.

Press PTT, EXIT, or long press the * key to exit scanning.

Menu 4-02 and 4-03 set the frequency scan range.

Channel Scanning: After scanning starts, the radio will sequentially check the channels in the scan list.

During scanning, if a call is received, you can press PTT to reply.

The channel scan options are set in Menu 5.

Priority Scan: You can designate a channel as the priority scan channel.

During scanning, 50% of the radios will scan the priority 1 member.

If there are priority 2 member, the scanning of priority 1 member will be reduced from 50% to 25%. Even if located on a non-priority channel or after priority 2 member, the radio will continue to periodically scan for transmitting activities on the priority 1

member.

If the radio detects activity on priority 1 member, it will stop the current transmitting and switch to the sound of the priority 1 member.

17. NOAA Receiving

Press the 5 key to enter or exit NOAA weather radio receiving.

This radio has 10 NOAA channels.

The receiving settings can be configured through Menu 9 for NOAA.

If SAME decoding is enabled, received events will automatically be saved in Menu 9-08, with the latest 32 events stored.

18. Listen to FM Radio

Press 0 to enter radio mode. Use the left/right keys to change frequency or select a preset radio channel. Press # to manually enter a radio channel frequency or select a preset radio channel using the keypad.

Press MR/VFO to switch between VFO and MR modes.

Press 1 to start auto scanning for radio channel. Found radio channels will be automatically saved (up to 20 radio channels).

Press 2 to start manual scanning. When a radio channel is found, the user must manually save it.

Press MENU to save a radio channel.

Press EXIT to exit scanning mode.

Use left/right keys to change the scan direction.

While listening to FM radio, if a valid call is received on the walkie-talkie channel or the PTT button is pressed to make a call, the device will temporarily exit radio mode and switch to communication mode. After the call ends, FM radio will resume.

Press EXIT or 0 to exit radio mode.

19. Keyboard Lock

Long press the # key to lock or unlock all the keys. When locked, side keys remain functional.

20. One Key Call Channel

Press the 9 key to immediately switch to the one key call channel.

Important channels can be set as one key call channels through menu 3-06.

21. Aviation Band Receiving

Enter the receiving frequency. If the local aviation frequency is unknown, you can use the scan function to scan the 108-136 MHz full frequency range. Press the 8 key to

select the modulation mode as AM.

22. Restore Factory Settings

Enter menu 1-16

VFO: Clears all data to the initial state but retains all stored channels.

ALL: Clears all data to the initial state, including stored channels.

The display shows “SURE?” Press the MENU key, and after the radio restarts, all options will return to their factory default values.

23. Wireless Radio Replication

Long press the PTT + side key 2 to power on and enter the wireless radio replication interface. The display will show AIR COPY (RDY).

Both the transmitter and receiver can use the number keypad to set the frequency for wireless radio replication. The transmitting and receiving frequency must match, with the default transmitting and receiving frequency being 410.0125 MHz.

Receiver Operation – Press EXIT to enter receive mode, display changes to AIR COPY (RCV).

Transmitter Operation – Press MENU to start transmitting frequency programming data, display changes to AIR COPY (PUB).

During the copying process, the copy progress will be displayed as RCV: XX E: XX, where E: XX represents the number of errors in the copied data.

When the copy is complete, the transmitter will display SND: XXX.

Specifications

General specification	
Channel Number:	999
FM Radio Store Number:	32
NOAA Channel Number:	10
Frequency Stability:	±1ppm

Modulation Mode:	FM:11K0F3E(12.5KHz), 16K0F3E(25KHz)
Size:	126mm*58mm*34.5mm
Weight:	289g
Working Temperature:	0°C+40°C
Antenna Impedance:	50Ω

Transmitting

Transmitting Power:

Note: This radio have different versions, the real parameter depends on which following version you purchase.

Normal Version:	25-29.8MHz 50-54MHz 136-174MHz 350-490MHz	≤5W ≤5W ≤10W ≤10W
CE Version:	28-29.7MHz 50-52MHz 144-146 MHz 430-440 MHz	≤5W ≤5W ≤10W ≤10W
FCC Version:	28-29.7MHz 50-54 MHz 144-148 MHz 420-450 MHz	≤5W ≤5W ≤10W ≤10W

Maximum Frequency Deviation:	≤5KHz(25KHz),≤2.5KHz(12.5KHz)
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Modulation Distortion:	≤5%
Stray Emission:	≤7.5uW
Adjacent Channel Power:	70dB(25KHz),60dB(12.5KHz)
Residual Modulation:	40dB

Receiving

Reference Sensitivity	FM(12dB SINAD)	F3(18~32	-121dBm
		F4(32~76	-121dBm
		F5(108~135.9975)	-121dBm
		F6(136~173.9975)	-123dBm
		F7(174~349.9975)	-121dBm
		F8(350~399.9975)	-123dBm
		F9(400~469.9975)	-123dBm
		F10(470~579.9975)	-121dBm
	WFM(20dB SINAD)	F11(580~759.9975)	-116dBm
		F12(580~999.9975)	-116dBm
	AM(10dB S/N)	F13(1000~1160)	-116dBm
		WFM(76~108)	-110dBm
		F1(0.153~1.799)	-100dBm
		F2(1.8~17.799)	-110dBm
		F3(18~32)	-110dBm
		F5(108~135.9975)	-113dBm

Audio Power: ≥0.5W


Audio Distortion: ≤10%

Note: Specifications are subject to change without notice due to technical improvement.



This package is 100% recyclable

Documents / Resources

	QUANSHENG TK11 Two Way Radio [pdf] User Manual TK11, XBPTK11, XBPTK11-8, TK11 Two Way Radio, TK11, Two Way Radio, Way Radio, Radio
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References

- [User Manual](#)

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