

Instruction Manual

PT 260 Serial

FM Portable Two-Way Radio

We are very grateful for your purchasing ~~Kirisun~~ brand two-way radios produced by Shenzhen Kirisun Electronics Co., Ltd.

We believe ~~Kirisun~~ two-way radio, which always incorporates the latest technology, can bring great convenience to your life and work.

We also believe that the quality and function of ~~Kirisun~~ two-way radio can meet your demands for reliable communication.

Notice to the User:

- Illegal operation is subject to punishment by fine and/or imprisonment.
- Servicing is only allowed to be operated by the well-trained professional technicians.

Warning:

Turn off your radio before entering any area with a potentially explosive atmosphere (where the air contains gas, dust and smog, etc.), such as while taking on fuel, or while parking at a gasoline service station.

Attentions:

Please comply with the following attentions to avoid fire, personal injury and damage to the radio.

- * Long time transmitting or continuous working in high power mode will make the rear side of the radio generate heat.
- * Please do not expose the radio to direct sunlight for a long time; do not place the radio near any heating device, either.
- * Please do not put the radio in extremely dusty, moist or dabbling places; do not place it on any unstable surface, either.
- * If the radio emits smoke or strange odors, turn it off and remove the battery from the radio and contact your local authorized Kirisun dealer without delay.

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Unpacking and Checking

Unpack the radio carefully. We recommend that you check the radio and the supplied accessories listed in the following table before discarding the packing material. If any damage or loss has occurred during shipment, please contact the dealer without delay.

Item	Quantity
Antenna	1
Li-ion Battery	1
Belt Clip	1
Intelligent Charger Base	1
Power Adapter	1
Hand Strap	1
Instruction Manual	1



天线



电源适配器



锂电池



智能充电座



背夹

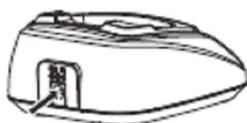


挂绳

Preparation

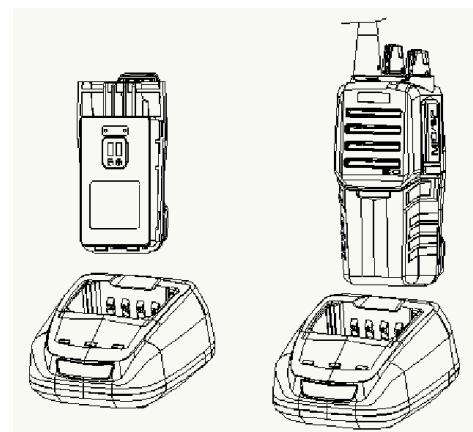
Charging the Battery

Plug the power adapter into an applicable AC outlet and connect the power adapter to the battery charger. Green LED lights.



Insert the battery to be charged or the radio with the battery into the charger slot.

Make sure the battery is well connected with the charger. Then Red LED lights, which indicates that the charging starts; Green LED lights, indicating the charging is finished.



Note:

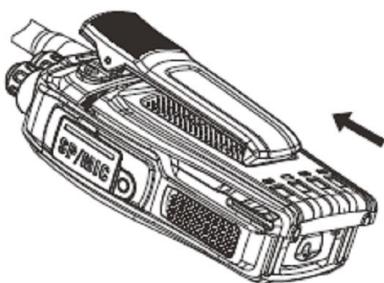
- * The radio battery is not fully charged before shipment. Before the initial use, please charge the new battery.
- * KB-260 Li-ion battery of Kirisun is applicable to this radio.
- * There is a built-in protective circuit in KB-260. When the power is low, it will cut off the power supply immediately. If you insert the battery on the charger, Red LED on the charger lights. Pre-charging for 1~5 minutes, the battery begins to be charged.
- * Do not reverse the battery pole or discard the battery in the fire.
- * Do not disassemble the cover of the battery by yourself.

KBC-260 Charging State Indication

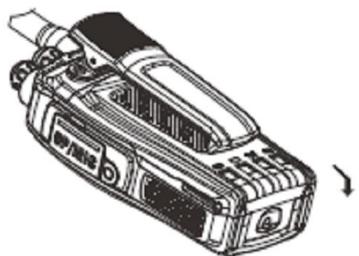
Indication Operation state	Red	Green	Yellow	Note
	Charging	Power supply	Abnormal	--
No battery	--	ON	--	--
Pre-charging	ON	--	--	--
Quick-charging	ON	--	--	--
Full charging	--	ON	--	--
Short circuit protection	--	--	ON	It will be back to normal when disabled short circuit protection.
High temperature protection	--	--	ON	Recovered when power off.
High voltage protection	--	--	ON	
Low voltage protection	--	--	ON	

Installing/Removing the Battery

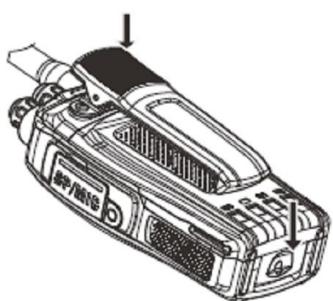
Match the two bulges at the bottom of the battery pack with the corresponding slots at the rear bottom of the radio.



Press the top part of the battery towards the radio to lock it in place until a click is heard.



To remove the battery pack, press the battery latch backwards, and then remove the battery away from the radio.

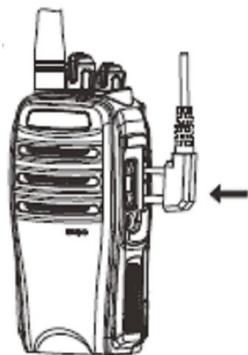


Installing the Antenna

Hold the base of the antenna and turn the antenna clockwise into the connector on the top of the radio until secure.



Installing the External Speaker/MIC



Open the cover for external speaker/MIC jacks, and then insert the external speaker/MIC plug into the jacks on the radio.

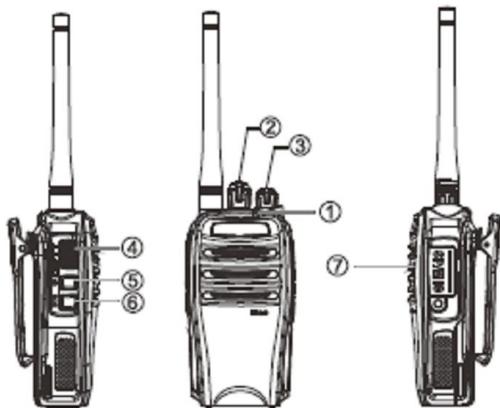
Note: When using the external speaker/MIC, the radio will not be waterproof.

Installing/Removing the Belt Clip



When installing, match the two screw holes to the holes on the back of the radio, use screw to fasten it; when removing, use screwdriver to remove these two screws, take off the belt clip.

Radio Overview



1. LED indicator

Red LED lights when transmitting; green LED lights when receiving. An alarm sound sends out when the radio is in low power while transmitting.

2. Channel selector knob

Rotate it to select channel 1-16.

3. On/OFF/Volume knob

Rotate it clockwise to turn on the radio. Rotate it counterclockwise until a click sound is heard to turn off the radio. Rotate it to adjust the volume.

4. PTT button

Press and hold it and speak to the microphone to transmit; release it to receive.

5. Voice prompt

Press it to hear which channel the radio is in in stand-by state.

6. Monitor button

Press it to disable squelch circuit, and receive background noise. Release it to turn off the background noise.

Note: If you want to check out whether there are interference in this channel, press this button.

Then rotate Volume knob to hear the noise.

7. Speaker/MIC jack

Connect the external speaker and MIC to the radio.

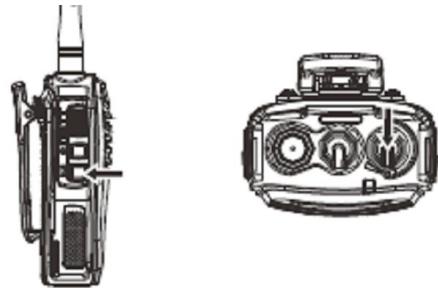
Basic Operation

Power On: Turn the On-Off/Volume Control Knob clockwise until a click is heard to turn on the radio. The radio will make a sound of “Di...” If programmed, the current channel number will be announced.



Adjusting the Volume

Press Monitor button to enter into the monitor state. Then rotate ON/OFF/Volume knob to adjust the volume.



Selecting a Channel

Turn the channel selector knob to your desired channel. If voice annunciation has been set, the radio will announce the current channel number. You will hear voice from the speaker while

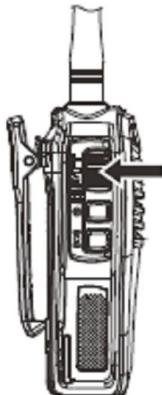
receiving valid signals.

Note: The 16th channel is the scan channel.

Sending a Call

To make a call, press and hold the PTT button and speak to the microphone in normal voice.

Please keep your mouth 3 - 5 cm away from the microphone to realize the best communication quality. Release PTT button to receive.



Scan function

Scan ON

When rotated the channel selector to the 16th channel, the radio begins to scan. It stops when the signal is received.

Note: When the radio is in 16th channel, the signal will be received later because of the scan.

Scan OFF

When rotated the channel selector to 1-15 channels, the radio stops to scan.

Explanations:

After scan pauses, there are two ways to resume scanning, which can be set in PC software:

1. Time operate: After pausing on an active channel, the radio will resume scanning after a preprogrammed delay. The scan delay time can be preset from 0.5 to 5 seconds.
2. Carrier operate: After pausing on an active channel, the radio will resume scanning after a preprogrammed delay after the channel becomes inactive. The scan delay time can be preset from 0.5 to 5 seconds.

Revert channel: Press PTT to transmit during the scan. The transmitting channels used have the following options:

1. Last Rx channel

When pressing PTT button during scanning, the radio will transmit from the last channel that received a call.

Note: After the last scan, the radio will stay at one channel. This channel is the last Rx channel.

2. Last Rx channel + Currently working channel

When pressing PTT button during scanning, the radio will transmit from the last channel that received a call; when pressing PTT button in scan off state, the radio will transmit from the currently working channel.

3. Selected channel

When pressing PTT button during scanning, the radio will transmit from the first channel in the scan list.

4. Selected channel + Currently working channel

When pressing PTT button during scanning, the radio will transmit from the first channel in the scan list.

When pressing PTT button in scan off state, the radio will transmit from the currently working channel.

5. Priority channel

Press PTT button, the radio will transmit from the priority channel in the scan list.

6. Priority channel + Currently working channel

When pressing PTT button during scanning, the radio will transmit from the priority channel in the scan list.

When pressing PTT button in scan off state, the radio will transmit from the currently working channel.

Note:

Currently working channel refers to the channel described in the following conditions:

1. When the radio receives the signal, and does not start to scan, it stays at one channel. This channel is currently working channel.
2. When the signal cannot be received, the radio will stay at one channel within the designated times. This channel is currently working channel.
3. When pressing PTT button to transmit, the radio will stay at one channel. This channel is currently working channel.
4. When releasing PTT button to finish transmitting, the radio will stay at one channel within designated pause time. This channel is currently working channel.

Selected channel: the first channel in the scan list.

Auxiliary Functions

Note: The relevant setting about TOT can be set by PC software.

Time-Out Timer (TOT)

The time-out-timer can prevent the user from continuously talking overlong and prevent the radio from heating due to continuous transmitting.

If you continuously transmit longer than the preset TOT time, the radio will make an alert tone and stop transmitting.

TOT Pre-alert

The radio will make an alert tone in advance before the TOT terminates the transmission. After the alert tone, when the time of transmission exceeds the pre-set time, the TOT timer will act.

TOT Rekey Time

A period during when the radio is forbidden to transmit after its overtime activity.

During the period, if the PTT button is pressed, an alert tone will be sounded, and the transmission is forbidden.

TOT Reset Time

The time delay from releasing the PTT button to the resetting of the timer is limited.

The countdown will go on if the time after releasing the PTT key is shorter than the reset time.

Busy Channel Lockout (BCL)

If the channel on which a user attempts to transmit is being used by another party, BCL function restricts the transmission in order to avoid interfering with the other parties' communication, and the radio will make an alert tone, and returns to the receiving state.

Default setting: Disabled, i.e. the radio can transmit at any time.

Battery Saving

The battery saving function can reduce power consumption of the radio when no signal is received and no operation is conducted (no button is pressed and no knob is turned).

If the radio hasn't receive any signal or no operation is being conducted for 16 seconds, the radio

will enter Battery Saving Mode. When a signal is received or any operation occurs, the radio will exit the Battery Saving Mode automatically.

Low Battery Warning

When the battery voltage drops to the pre-set value, low battery warning tone sounds every 10 seconds. And the radio turns off automatically in very low battery. You need to recharge or change the battery.

Squelch Level

The squelch function is enabled to mute the speaker when there is no signal to be received. Enable squelch, you can hear the background noise from the speaker. Disable squelch, the noise cannot be heard.

The squelch level determines when the squelch function should be on. If the selected level is too high, the weak signal cannot be heard; if the selected level is too low, the signal will be mixed with the background noise. Squelch level can be set by PC software. Range: 0-9. The default setting is 5.

CTCSS/DSC

CTCSS/DSC of PT260 can be programmed by PC software. The range of CTCSS/DSC signal tone can be 67~254, 1/D023~D777 respectively.

CTCSS/DCS tones may have been pre-programmed on some radio channels. A CTCSS/DCS tone is a sub-audible tone, which allows you to realize selected call and group call.

When you receive a signal that has a tone different from the one set on your radio, you will not hear the signal. Likewise, signals that you transmit will only be received by parties whose CTCSS/DCS tones are the same as yours.

Voice Annunciation

If voice notice is enable in standby state, press voice notice button to hear which channel the radio stays.

Wired clone

Enable wired clone function. If the radio enters into this mode, it will not exit to the user mode until you restart the radio. The steps of wired clone are as follows:

1. Press and hold Monitor button to turn on the radio. Red LED flashes after 2 seconds, and the

radio enters into clone mode.

2. Press Monitor button, Red LED flashes, and start to clone the data. Red LED lights off when finishing clone.

Note: You can enable or disable wired clone function by PC software. Once this function is disabled, the radio cannot enter into wired clone mode.

The default setting: Disabled.

Troubleshooting

No.	Problem	Causes and Solutions
1	The radio cannot be switched on or no display after being switched on.	<ul style="list-style-type: none"> * The battery power may be insufficient. Please recharge or replace the battery pack. * The battery pack may not be installed properly. Please remove the battery pack and install again.
2	Cannot talk to or hear other group members.	<ul style="list-style-type: none"> * Make sure the CTCSS/DCS signal is the same as that of your group members. * The radio is out of effective communication range.
3	Other voices from non-group members are heard on the channel.	<ul style="list-style-type: none"> * Change the CTCSS/DCS signal, and make sure to change the CTCSS/DCS signal of all radios in your group.
4	The communication range is too short.	<ul style="list-style-type: none"> * Make sure the antenna is well connected. * Make sure the antenna is the original supplied one. * Check if the battery power is in normal state. * Ask your local dealer to adjust the squelch level.
5	The battery power consumes quickly after charging.	<ul style="list-style-type: none"> * The battery life is finished. Please replace it with a new battery pack.

Major specifications

General Specifications		
Frequency (MHz)	136– 174MHz	400–470MHz
RF power	≤5W	≤4W
No. of channel	16(15+S)	
Frequency stability	± 2.5ppm	
Power supply	DC 7.4V	
External dimension	60mm × 210mm × 34mm	

Weight	223g (with battery and antenna)
Intermodulation	> 60dB
Tx Part	
Tx clusters and harmonics	< -70dB
Max. deviation	± 5K (W) / 2.5 (N)
Rated audio deviation	≤8%
Rx Part	
Rx sensitivity	≤ 0.2µV(12dB SINAD)
Max. audio power	≥ 500mW
SINAD	≥45dB
Rated audio deviation	≤5%

Status setting (by the dealer)

Model: _____ Serial No.: _____

1. Channel setting

Channel No.	Tx frequency	Rx frequency	CTCSS/DCS
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			

2. The way to resume scanning after its pause:

Time Operate Carrier Operate

3. Revert channel:

Selected Channel Selected Channel or Currently Working Channel
Priority Channel Priority Channel or Currently Working Channel

4. Squelch

ON OFF

5. TOT

ON OFF

6. Auto scan

ON OFF