



INSTRUCTION MANUAL

PT2208/3208

FM HANDHELD TRANSCEIVER



NOTE



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We are grateful you have chosen **KIRISUN** for your land mobile application. We believe this easy to use radio will provide dependable communication to keep personal operating at peak efficiency.

KIRISUN radio incorporates the latest and advanced technology, so you will be pleased with this product quality and features.

PRECAUTIONS

Please observe the following precautions to prevent fire, personal injury, and radio damage.

Do not operate your radio while taking on fuel, or being charged.

Do not expose the radio for a long period to direct sunlight, nor place the radio close to heating appliances.

Do not place the radio in excessively dusty areas, humid areas, or on unstable surfaces.

Do not modify this radio for any reason.

Refer service to qualified licensed or certificated technicians only.

CAUTION:

Before using your portable 2-way radio , read this important RF energy awareness and control information and operational instructions to ensure for compliance with the FCC's RF exposure guidelines.

This radio is intended for use in occupational / controlled conditions, where users have full knowledge of their exposure and can exercise control over their exposure to meet FCC limits. This radio device is NOT authorized for general population, consumer, or any other use.

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.

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■ UNPACKING AND CHECKING EQUIPMENT

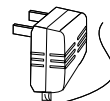
Carefully unpack the radio. We recommend that you identify the items listed in the following table before discarding the packing material. If any damage has occurred during shipment, file a claim with the carrier immediately .

■ SUPPLIED ACCESSORIES

ITEM	QUANTITY
Antenna	1
Wrist loop	1
Belt clip	1
Battery	1
Charger	1
Adaptor	1
Manual instruction	1



Antenna



Adaptor



Belt clip



Charger



Wrist loop



Battery

■ PREPARATION

● CHARGING THE BATTERY PACK



Connect the AC adaptor with charger properly, and then plug the adaptor into right electrical outlet, after that , the indicative light turns green.



Plug the uncharged battery or radio into charger, the indicative light turns red or flashes, then the charger gets in the state of charging automatically, and the time of charging depends on the battery capacity. When it is fully charged, then the indicative light turns green.

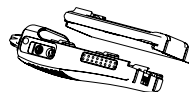
Notice:

* The battery is not charged in the factory, and please charge it before using.

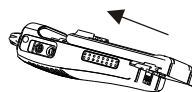
* The charger will stop charging and the indicative light turns yellow if the charger detects the battery is damaged or the temperature of the battery is very high (if the temperature is over 50℃ for Ni-MH battery, and it is over 45℃ for Li-ion battery).

* Please do not charge the battery again if it is charged fully, otherwise, the life of the battery will be shortened or it will be damaged.

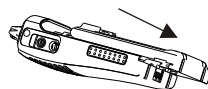
● INSTALLING /REMOVING THE BATTERY PACK



Match the four grooves of the battery pack with the corresponding guides on the back of the radio.



Slide the battery pack along the back of the radio until the release latch on the base of the radio locks.



To remove the battery pack, pull back on the release latch and slide the pack away from the radio.

Notice:

* Don't dispose exhausted batteries in the household waste. Bring back such batteries to your dealer or bring the exhausted batteries to a special disposal service.

* Don't take down the crust of the battery by yourself.

● INSTALLING THE ANTENNA

Screw the antenna into the connector on the top of the radio by holding the antenna at its base and turning it clockwise until secure.

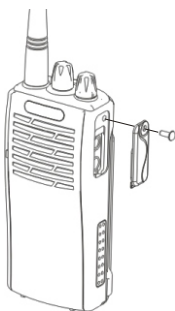


● INSTALLING THE COVER OVER THE SPEAKER /MICROPHONE JACKS

If you don't use the speaker/microphone, install the cover over the jacks with the supplied 3x6mm screw.

Notice:

The cover enclosed must be installed on the speaker/microphone jacks with the supplied 3x6mm screw in order to make the radio waterproof.



● INSTALLING THE OPTIONAL SPEAKER /MICROPHONE

Insert the speaker/microphone plug into the speaker/microphone jacks. Attach the locking bracket with the supplied 3x6mm screw.

Notice:

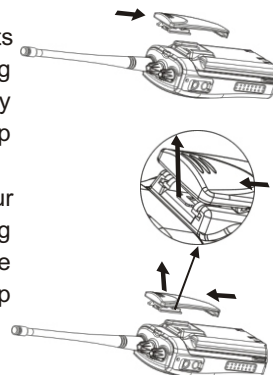
The radio will be not waterproof completely when the speaker /microphone outside is used.



● INSTALLING /REMOVING THE BELT CLIP

To install the belt clip, match its guides with the corresponding grooves on the back of the battery pack, then press the belt clip downwards to lock it in place.

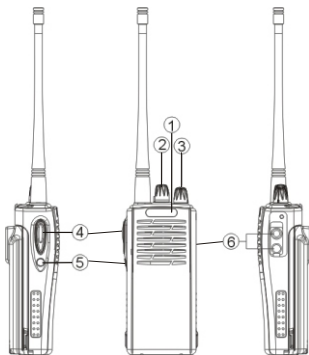
To remove the belt clip, use your nail or a tool to lift the metal spring piece in the belt clip from the topside, and then pull the belt clip away from the radio.



■ GETTING ACQUAINTED

1. INDICATOR LIGHT

LED Lights red while transmitting; lights green while receiving a signal; flashes red when the battery voltage is low while transmitting.



2. CHANNEL SELECTOR

Rotate to select channel 1-16.

3. POWER /VOLUME SWITCH

Turn clockwise to switch **ON** the radio; To switch **OFF** the radio, turn counterclockwise until a click sounds; Rotate to adjust the volume level.

4. PTT (push-to -talk)

To make a call, press and hold the **PTT** button , then speak into the microphone with normal voice. Release the **PTT** to receive.

5. MONITOR BUTTON

Press the button for closing the **SQUELCH**, and release or open.

6. MIC-SP JACKS

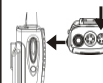
If desired, connect a speaker/microphone here.

■ BASIC OPERATION



Switch on:

Switch on the radio by turning the Power /Volume control clockwise till a click is heard, then the radio will be in the state of stand by.



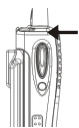
Adjusting volume:

To adjust volume, turn the **POWER/VOLUME** control, while using **MONI** to listen to channel background noise.



Selecting channel :

Rotate the channel selector to select channels.



Transmitting:

To make a call, press **PTT**, and speak in normal voice, please hold the microphone 1.5 inches away from your mouth.

Receiving :

When releasing **PTT**, and adjusting the volume properly, you will hear the calling from the speaker.

■ SCAN FUNCTION

(This function may be prohibited by local dealer)

● START SCAN

While switch to channel 16, the radio will begin to scan, and pause after receiving signals.

● END SCAN

While switch to channel 1-15, the scan will be stopped.

Introduction :

1. Dealers can set the following two ways to restart the scan after its pausing :

1) Time -control :

The radio will restart the scan after pausing for some time

while receiving signals. The pausing time can be preset from 0.5 to 5 seconds.

2) Carrier wave control :

The radio will pause the scan after receiving signals and will restart the scan for 3 seconds after the signals disappear.

2. The working channel of the radio will return to the following channels automatically by pressing **PTT** during the scan. The dealer can select one among the following four ways.

1) Selected channel:

When pressing **PTT** during the scan, the radio will always transmit from the first channel of the scanning list.

2) Selected channel or currently working channel:

If pressing **PTT** during scanning, the radio will transmit from the first channel in the scanning list. If pressing **PTT** during the scan pausing, the radio will transmit from current channel.

3) Prior channel:

The radio will always send signals from the prior channel in the scan list when pressing **PTT**.

4) Prior channel or currently working channel:

When the radio is scanning, it will send signals from the prior channel in the scanning list by pressing **PTT**. During the pause of scan, the radio will transmit from current channel by pressing **PTT**.

● REMARKS:

The above mentioned currently working channel means the channel in which the radio holds on under the following four conditions.

- 1) Before restarting the scan after receiving the signals, the radio still stay in current channel.
- 2) When receiving signals during scan, the radio will pause and stay in current channel for 3 seconds after the signals disappear.
- 3) Radio will stay in current channel when pressing **PTT** during scan.
- 4) The transmitting will end by releasing **PTT**. Within the transmitting pause time preset by local distributor, the radio will stay in current channel.

* SELECTED CHANNEL :

The first channel in the scanning list set by distributor.

* PRIOR CHANNEL:

The prior channel in the scanning list set by distributor.

■ AUXILIARY FUNCTIONS

● TIME-OUT-TIMER

The purpose of the Time -out- timer is to prevent

any single person from using a channel to transmit for an extended period of the time. If you continuously transmit longer than the time limit preset by the distributor, the radio will stop transmitting and a tone will be heard. To stop the tone, release the **PTT** button. You can press the **PTT** again to resume transmitting.

● TOT PRE-ALERT

The TOT Pre-Alert function notifies the programmed time is expired . This should be set less than TOT value.

Range: Off /1 to 10s (1s steps)

Default: Off

● TOT REKEY TIME

TOT Rekey-Time sets the “penalty” time in which the radio can not be re-keyed for transmitting after the Time-Out-Timer setting is exceeded.

Range: Off /1 to 60s (1s steps)

Default: Off

● TOT RESET TIME

TOT Reset Time sets the minimum “wait ” time allowed between transmissions that will reset the Time-Out -Timer. When TOT Reset Time is set , it causes the TOT continue even after **PTT** is released unless the TOT Reset Timer has expired.

Range: Off /1 to 15s (1s steps)

Default: Off

● BATTERY SAVING

The Battery Saving function decreases the power consumption when no signal being received and no operation being performed (no keys are being pressed , and no switches are being turned .)

● LOW BATTERY WARNING

Low battery warning alerts you, when the battery needs to be recharged while transmitting. If the battery power goes below a certain value , the LED light will blink red, and the radio will stop transmitting .

● MONITOR

When there is no signal received , the squelch circuit on the radio automatically mutes the speaker, so you will not hear background noise. To manually deactivate the squelch, press the **Monitor** key, which is useful when you want to adjust the volume level or when you need to receive a weak signal.

OFF

When this function is selected, no operation is performed.

MONITOR TOGGLE

When this key is pressed once, the green lamp lights and squelch un-mutes if a carrier is present, regardless of the specified Signalling (including Option Signalling). If pressed again, the green lamp turns off and squelch mutes.

Note: If you press this key while Option Signalling is matched, Option Signalling is reset.

MONITOR MOMENTARY

While pressing this key, green lamp lights and the squelch un-mutes. If a carrier is present, regardless of the specified Signalling (including Option Signalling). If released, the green lamp disappears, and the squelch mutes.

Note: If you press this key while Option Signalling is decoding, Option Signalling is reset.

SQUELCH OFF

Press this key to force the squelch to un-mute, and the green lamp lights. If this key is released, the squelch mutes and the green lamp disappears.

Note: If you press this key while Option Signalling is decoding, Option Signalling is reset.

● CTCSS&DCS

1. Some channels may have preprogrammed CTCSS /DCS. A CTCSS/DCS is a subaudible tone which allows you to ignore (not hear) calls from other parties who are using the same channel.

2. You will not receive the signal that has a tone different from the one set in your radiol. Likewise, signals that you transmit will only be received by parties whose CTCSS/DCS are the same as yours.

Note: Though you use a CTCSS/DCS channel which can prevent you from receiving unwanted signals, it does not mean your calls will be private.

■ TROUBLE SHOOTING GUIDE

NO.	PROBLEM	SOLUTION
1	No power	<p>The battery pack may be exhausted. Recharge or replace the battery pack.</p> <p>The battery pack may not be installed properly. Remove the battery pack and install it again.</p>
2	Battery power dies shortly after charging	<p>The battery pack life is finished. Replace the battery pack with a new one .</p>
3	Can not talk to or hear other members in your group	<p>Make sure you are using the same frequency and CTCSS/ DCS tone as the other members, in your group.</p> <p>Other group members may be too far away . Make sure you are within the range of the other radios.</p>
4	Other voices (besides group members) are on the channel	<p>Change the CTCSS/DCS.</p> <p>Be sure to change the tone on all radios in your group.</p>

■ STANDARD SPECIFICATION

	PT 2208	PT 3208	PT 3208
FREQUENCY (MHz)	(1) 136 -150 (2) 146 -174	(2) 450 - 470 (3) 420 - 450	(4) 440 - 470 (11) 470 - 512
RF POWER	5W	4W	4W
CHANNELS	16 (15+S)		
POWER SOURCE	DC 7.2V		
DIMENSION	53mmX115mmX32mm		
WEIGHT	240g with battery and antenna		

■ SETTINGS

1.SETTING CHANNELS

CHANNEL	TRANSMITTING FREQUENCY	RECEIVING FREQUENCY	CTCSS/DCS
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			

2.The way to restart the scan after its pausing.

Time-control ☐Carrier wave control ☐ Off ☐

3.The way to resume the working channel

Selected channel ☐Selected channel or current working channel ☐Prior channel ☐Prior channel or current working channel ☐

4.Monitor Key

Off ☐Monitor Momentary ☐Monitor Toggle ☐Squelch Off ☐

5.Time-Out-Timer

Off ☐30-300s ☐

6.ToTPre-Alert

Off ☐1-10s ☐

7.ToT Rekey Time

Off ☐1-60s ☐

8.ToT Reset Time

Off ☐1-15s ☐

9.Squelch Level

1-9 ☐

10.Wide/Narrow

All wide ☐All narrow ☐Optional ☐

11.Power

All high ☐All low ☐Optional ☐

12.Battery Save

Open ☐Close ☐

13.Beep Tone

Open ☐Close ☐

CE Versions of the PT2208/3208 which display the "CE" symbol on the serial number seal, comply with the essential requirements of the European Radio and Telecommunication Terminal Directive 1999/5/EC.



This warning symbol indicates that this equipment operates in non-harmonised frequency bands and/or may be subject to licensing condition in the country of use. Be sure to check that you have the correct version of this radio or the correct programming of this radio to comply with national licensing requirement.



NOTE