To the users

Thank you very much for using our public network radio.This radio is
of novel design , compact structure,stable performance,it can satisfy users
for convenient operation and good performance .in order to make you fully
understand the performance of the machine, please read this manual
before using.
Production Name:GSM radio
Model name:PX800S

Contents

Usage and Security information

In order to use the radio safely and efficiently,please read the following information

- Before entering the inflammable, explosive environment, please turn off the radio
- In the inflammable, explosive environment do not replace the battery or charging the battery
- When near the blasting and detonator area , please turn off the radio
- Do not use the radio with broken antenna ,damaged antenna contact with skin may cause minor burns.
- Ask professional and technical personnel to repair the radio,do not to open the radio by yourself.
- To avoid the problems caused by electromagnetic and/or electromagnetic compatibility, please turn off the radio when you see the notice "please close radio/cell phone" occasions , such as hospitals and other places of health care. By plane, when the crew ask to turn off the radio, please close the radio.
- In the car with airbag, please do not put the radio close to the place when the airbag is unfolded may collide.
- Do not expose the radios under the sunlight directly or near heating device for a long time .
- When the radios are transmitting ,please keep the radio in the vertical position, and close to the microphone to speak.
- If you wear the radios, please make sure that the antenna at least should be 2.5 cm distance from the body when the radio transmit.
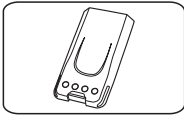
Product checking

Before use, check whether there is any damage signs on the product packaging,open the box carefully ,check if all items listed in the table below. If you find this product and its accessories in the handling of any lost or damaged, please contact the dealer immediately.

Article	quantity
Antenna	1
Manual	1
Battery	1
Charger	1
Adaptor	1
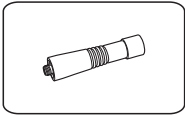
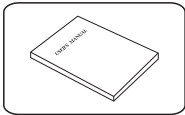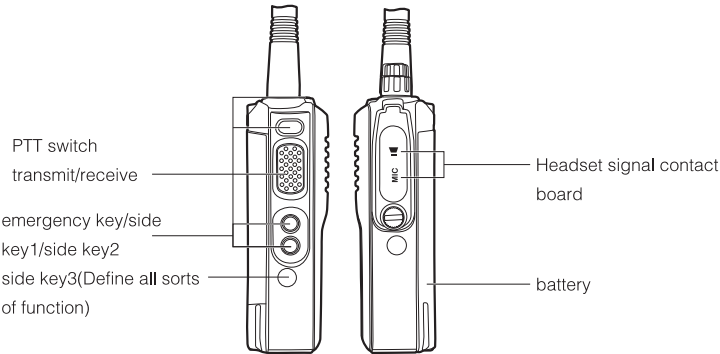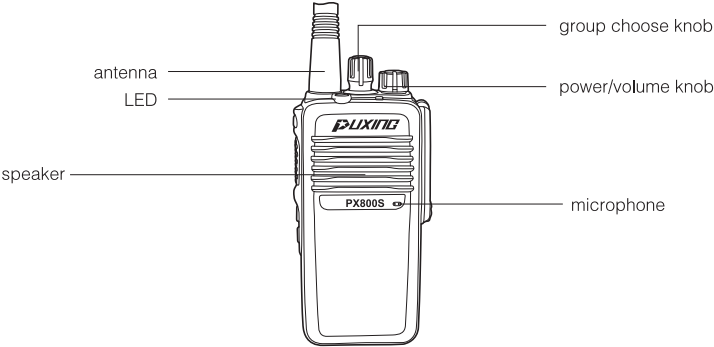Antenna   Battery

Charger   Adaptor   Manual

Getting acquainted

Main buttons and interface of this machine is shown in the figure below Including antenna /group choose knob/ power/volume knob/LED/speaker/ microphone/PTT switch/earphone contact plate/top key/side key1/side key2/side key3/battery

antenna

LED

speaker

group choose knob

power/volume knob

PX800S

microphone

PTT switch
transmit/receive

emergency key/side
key1/side key2
side key3(Define all sorts
of function)

MIC

Headset signal contact
board

battery

Preparation

Charge the battery

Battery hasn*t been charged before sent out,please charge it before use.
After purchase for the first time or long term storage (after more than two
months), the battery can not be charged to full capacity,after repeated
charge/discharge two or three times,capacity will increase to usually state.

⚠ **Warning**

1、If the battery is fully charged, please do not charge again. Otherwise, the battery life will
be shorten or damaged
2、After recharging the battery, please take it from the charger. There might be for charging
the battery more than 5 days and shorten the battery life.

Note：
 ◆ The environment temperature should be between −20 to 40℃ when
charging,outside again when charging, the battery is not fully charged.
 ◆ Before charging, please turn off the radios.it will hinder to charge if
you use the radio at the same time.
 ◆ If you charge the battery correctly for enough time ,the battery
capacity still can not been increased,pls change a new battery.

1、Insert the plug of the ac power adapter to the charger socket
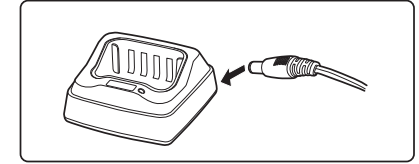
2、Insert the ac adapter on the ac power outlet
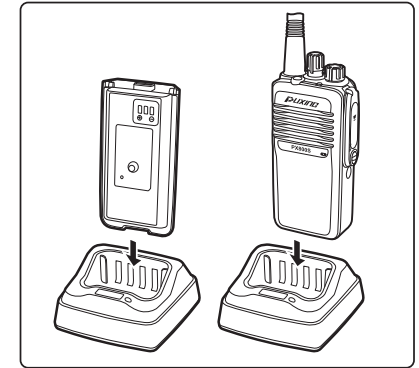
3、Insert The lithium ion battery or radio with lithium ion battery on the
charger.
 ◆ Make sure the battery has been connected with the contactor of the
charger
 ◆ Indicator light is red,charge begin.
4、After charge the battery for 4hours and the LED turn green
 ◆ Charge finished,take the radio out
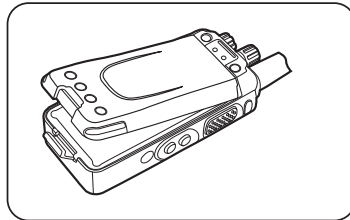
5、Take the adapter from the ac power socket

Install/uninstall the battery

The battery can be used for about 10hours,

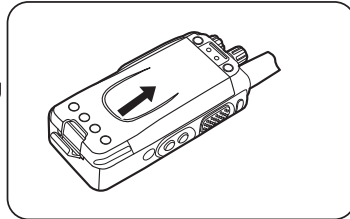5% for transmit,5%for receive,90%for standby.

> **⚠ Note**
> ◆ Do not short circuit battery contacts or discard batteries in a fire.
> ◆ Do not remove the battery shell without authorization.

1、Insert the battery on the back of the groove to the top of the radio

2、Push the battery to radio base along the back of the radio,fasten the battery buckle

3、To remove the battery, pull the battery back buckle and take out the battery from the radio.
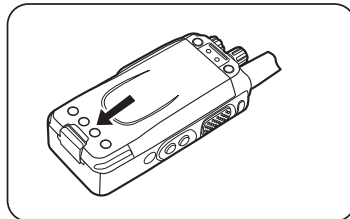
Install the antenna

Hand the radios, insert the antenna into the radio connector clockwise until tighten

> **Note**：Do not use the antenna as the grab handle or hang the keys or microphone.it will damage the antenna.if necessary

Install SIM card

The radio work on 2G network

Please activate the SIM card on cell phone before insert it into the radio.
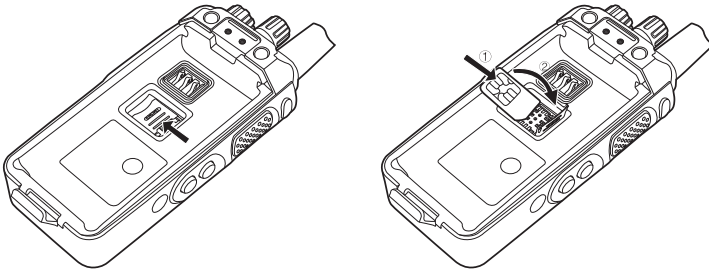
Install earphone

Use screws to lock the earphone to the interface
of the radio to make the signal to be good

Note：It will be not waterproof when use
earphone.

Mic
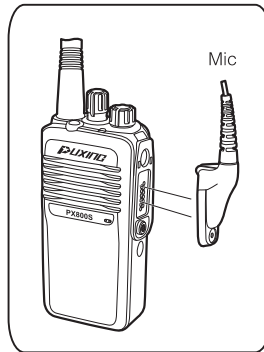
Install the cover of the earphone socket.

If you don't use earphone,please install the socket
cover.

Note：Install the socket cover to make
the radio to be waterproof.

The headset
shielding cover

PX800S

Concept

Network instruction

All radio need to be register on server before use,every conversation need to be dispatched by server.like below indicator light

voice dispatch in server as below

MS1

Carrier base station

MS2
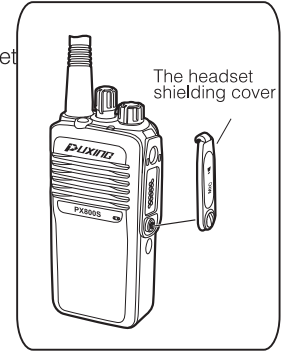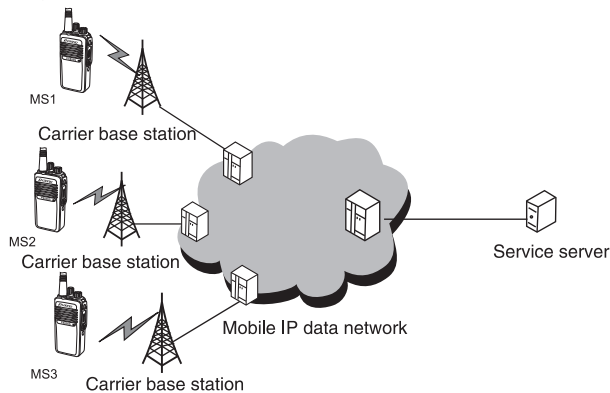Carrier base station

Service server

Mobile IP data network

MS3   Carrier base station

Pilot lamp

There are 3colors light,red/green/yellow.Every color has 3 states(quick flashing(1second/one time)/Slow flash(3seconds/one time)/Long bright.

Short press/long press

Short press:press the key<1s,

Long press:press the key<2s,

Turn on the radio:

Rotate the Power switch/volume control knob clockwise, then you hear a sound "dida", at the same time the yellow light become bright for a few

seconds, and then the light off, a few seconds later,the yellow flash slowly. If not insert SIM card or insert it not correctly, not connect message is left upper corner of the screen; If the SIM card is installed correctly, when you hear the current group broadcast and online prompt with green light flash slowly, left upper corner of the screen displays bars, if the radio group hasn't been added in the platform, it will display a red light normally;

Turn off the radio:

Rotate the Power switch/volume control knob counterclockwise,then you will hear a sound "dida",the radio is turn off.

Note: if the SIM card is not activated or owe cost, the radio will not be able to successfully launched, will flash a red light

Function introduction

Standby

After turn on the radio for 35S,the radio will be registered successfully,
the radio will announce the group number,online prompt tone.green light
flash slowly,it means the radio enter the group call mode standby mode .

Note：If the group knob position corresponding group is not configured in
the management platform, the light will be red.

Group No. Broadcast

After turn on the radio,turn the group knob,the radio will broadcast the
group No.

Call model

Group call model:turn on the radio,the radio will enter in group call standby
model ,turn the group call knob to change the default group ,it can be set
call one-to-many,can call the users in the group.

Note: if the group call knob corresponding group is not configured in the
management platform, the light will be red.

Single call model: ione to onei call,can choose one user to make one to one
call in the same group.

he default model is group call mode,choose the function key"MENU" ,you
will find contact persons,choose the user you want to contact,press PTT
then you can call this person,if you want to turn back from single call ,press
the key "back".

When choose single call ,define side key 2/3 to choose the user,press side
key2 to choose last single call user,press side key3 to choose the next single
call user.Each choose the single call user,it broadcast the currently
selected single call name.

Single call users need to be added in the platform "good friend setting"

Note: radio name is the user name in the management platform.

Calling

Under group call model (green light flash slowly),press PTT,the radio
transmit,if any users are on line the green light will be bright,the radio make
group call.if no user on line in the group,the green light flash one time then
broadcast calling failure. Loosen PTT ,the conversation finish and enter next
group talk model.

Enter into single call model,press PTT to transmit,if single call user on line,
the green light will be bright,the radio make a single call. if the single call
user is not on line,the green light will flash one time,radio will broadcast the
calling failure.loose the PTT,calling finished and enter into next single call
model.

Note:1、When calling on the phone, please close to the microphone positions
    2、In order to prevent the caller takes up channel for a long time,system
settings are limited duration (about 30 seconds), on the phone for 30 seconds
if the user still not lose PTT button, then the system automatically stop calling.

Called

Group calling mode standby mode, when the user in the group call or his
friends launched a single call, the server will inform the radio to transfer to
called state,light become green for long at this time, and be able to listen
to the voice calling.

After the call, will be broadcast short "di" sound, if before for group calling,

indicator light turn green slow flash; If for single call, the light into yellow light normally on, PTT launched a call back, if without a fast call within 30S, it exit single call mode will automatically return to group call standby mode.

Priority call

Within the same group of all radio, can have different priorities.

Beside the normal call and called function,the high priority user may give preference to call on the phone

History recording playback

Long press key2,can download the current group in recent 5 call recording and playback.

Note: 1、Only support group call record function。

2、Please set the group call record function on management platform.

Position report

The radio will report the current position to platform ,click the "map function" on the platform,you can display the position and historical route etc

Note: 1、It is optional function

2、Support GPS and beidou

volume adjustment

Rotate the power switch/volume control knob can adjust the volume of the radio loudspeaker, clockwise to raise the volume of the speaker, the knob counterclockwise to lower the volume of the speaker.

Indicator status

1、Shutdown mode, turn the power switch/volume control knob clockwise, light will yellow for a few seconds,the radio turn on.

2、Yellow light long on a few seconds and later out, a few seconds, yellow lights flash,means the radio are registered online

3、In the process of yellow light flash, if network status is bad ,the register time will be longer , the red light flash.

4、below situation the light will be red fast flash.

a. SIM card have been activated or no charge.

Note: the SIM card will can not be registered to server.

b. The Wireless network quality is poor,can not connect

Note: the SIM card will can not be registered to server.

5、below situations the light will be red long flash

a. Have not installed the SIM card or incorrectly installed the SIM card

Note: radio will remind "card read failure"

b. The radio have not been configured on the server.

c. If the radio has been configured to the server,but the group call knob position hasn't been configured to matched group call.

6、Register the radio successfully,the light will be slow flash,default to group call standby status.

7、Single call mode standby mode, yellow light normally on.

8、To talk on the phone, the green light is long; After the call, back to the corresponding mode standby state.

9、Download and playback the record,the green light normally on.

Technical specifications

Work voltage	7.4V
Work temperature	-20℃ ~+40℃
Stock temperature	-40℃ ~+80℃
Weight	300g
Size H x W x D（mm）	135mm x 64 mm x 37.5 mm（not include antenna）
Waterproof	IP57
Battery life	<13.5 hours
Locate function	support GPS/beidou, it is optional
support groups	16
ongoing conversation traffic /1hour	<5MByte

RF Radiation Information

RF Radiation Profile

Radio Frequency (RF) is a frequency of electromagnetic radiation in the range at which radio signals are transmitted. RF technology is widely used in communication, medicine, food processing and other fields. It may generate radiation during use.

RF Radiation Safety

In order to ensure user health, experts from relevant industries including science, engineering, medicine and health work with international organizations to develop standards for safe exposure to RF radiation. These standards consist of:

United States Federal Communications Commission, Code of Federal Regulations; 47CFR part 2 sub-part J;

American National Standards Institute (ANSI)/Institute of Electrical and Electronic Engineers (IEEE) C95. 1-1992;

Institute of Electrical and Electronic Engineers (IEEE) C95. 1 – 1999;

International Commission on Non-Ionizing Radiation Protection (ICNIRP) 1998;

FCC Regulations

Federal Communication Commission (FCC) requires that all radio communication products should meet the requirements set forth in the above standards before they can be marketed in the U.S, and the manufacturer shall post a RF label on the product to inform users of operational instructions, so as to enhance their occupational health against exposure to RF energy.

Operational Instructions and Training Guidelines

To ensure optimal performance and compliance with the Population/Uncontrolled Exposure environment RF energy exposure limits in the above standards and guidelines, users should transmit no more than 50% of the time and always adhere to the following procedures:

a. Your radio radiates measurable RF energy only while it is transmitting (during talking), not when it is receiving (listening) or in standby mode.

b. Keep the radio at least 2.5 centimeters away from your body during transmission.

FCC Statement:

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.

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.

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

IC Statement

This device complies with Industry Canada licence-exempt RSS standard(s).
Operation is subject to the following two conditions:
(1) this device may not cause interference, and
(2) this device must accept any interference, including interference that may
cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux
appareils radio exempts de licence. L'exploitation est autorisée aux deux
conditions suivantes :
(1)   l'appareil ne doit pas produire de brouillage, et
(2)   l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi,
      même si le brouillage est susceptible d'en compromettre le
      fonctionnement.

IC Radiation Exposure Statement:

This equipment complies with Canada radiation exposure limits set forth for
uncontrolled environments.

This transmitter must not be co-located or operating in conjunction with any
other antenna or transmitter.

Déclaration d'IC sur l'exposition aux radiations:
Cet équipement est conforme aux limites d'exposition aux radiations définies
par le Canada pour des environnements non contrôlés.
Cet émetteur ne doit pas être installé au même endroit ni utilisé avec une autre
antenne ou un autre émetteur.