



Kirisun DP810, DP815 I.S.Digital Radio User Guide

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Kirisun DP810, DP815 I.S.Digital Radio



Kirisun Communication Co., Ltd. Please read carefully the Safety Information before using the product.

Product Appearance

DP810

- Alarm key
- LCD screen
- Menu/Ok key
- Left key
- Dial key
- Speaker
- Number key
- Channel knob
- Power/volume knob
- LED indicator
- Microphone
- Up key
- Back key
- Right key

- Hang-up/Menu key
- Down key
- Antenna Side key1
- PTT key
- Side key2
- Audio accessory interface
- Belt clip
- Side key1 PTT key Cover screw Side key2 Lithium battery pack
Battery latch Attachments

DP815

- Alarm key
- LCD screen
- Channel knob
- Power/volume knob
- LED indicator
- Microphone
- Speaker

Product Installing Lithium battery

Installing the Lithium battery pack

1. Press gently the upper part of the belt clip so that it springs up. (Figure 1)
2. Align the slot on the Lithium battery pack and the aluminum-alloy clip at the back of the radio. (Figure 2)
3. Put the Lithium battery pack into the Lithium battery pack holder. (Figure 3)
4. Push the Lithium battery pack latch in place. (Figure 4)

Charging the Lithium battery pack

1. Plug the power adapter into an AC power socket of the required specifications.
2. Connect the power adapter to the Rapid charger and the green LED indicator light is on.
3. Put a Lithium battery pack or the radio installed with a Lithium battery pack into the Rapid charger, and make sure the Lithium battery pack contacts well the charging contacts. During charging, the red indicator light is on.
4. It takes about 5 hours to fully charge the Lithium battery pack, and then the LED indicator light turns green.
5. Disconnect the power adapter from the socket.

Product Installing/Uninstalling

Installing/Uninstalling the Antenna

Insert the threaded end of the antenna into the antenna interface, and rotate the antenna tight clockwise. (Figure 1)
1) To uninstall the antenna, rotate it counterclockwise. (Figure 2)

Installing/Uninstalling Belt Clip

Align the two screw holes of the belt clip with the screw holes at the back of the radio, and screw up the screws using a screwdriver. To uninstall the belt clip, unscrew the screws and take off the belt clip.

Installing External Audio Parts

Connect an audio accessory to the audio accessory interface, and fasten it using the screw.

Installing/uninstalling TF card

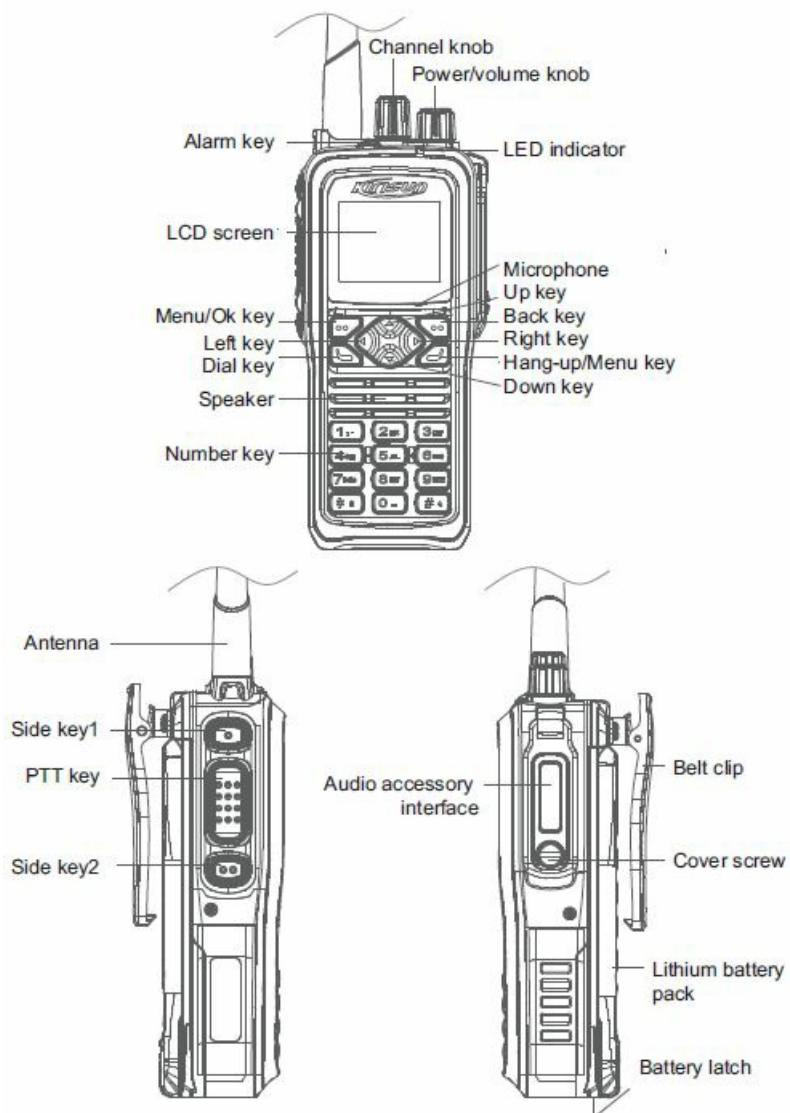
1. Screw down the screw fastening the TF card cover using a Philips screwdriver. (1)
2. Rotate the cover leftwards to the edge of the aluminum housing. (2)
3. Push the TF card rightwards and take it out. (3)
4. To install a TF card, perform the above operation reversely.

LED Indicator

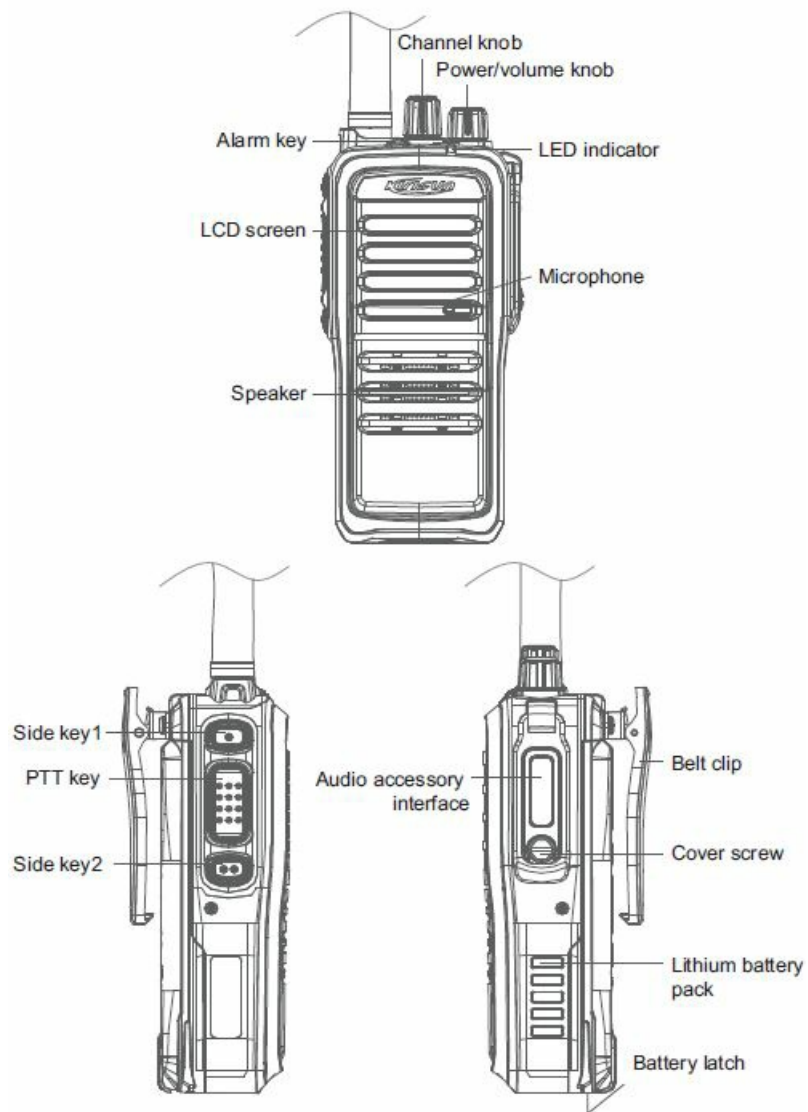
The LED indicator turns red during charging and turns green when the Lithium battery pack is fully charged.

Appearance

DP810



DP815



Attachments

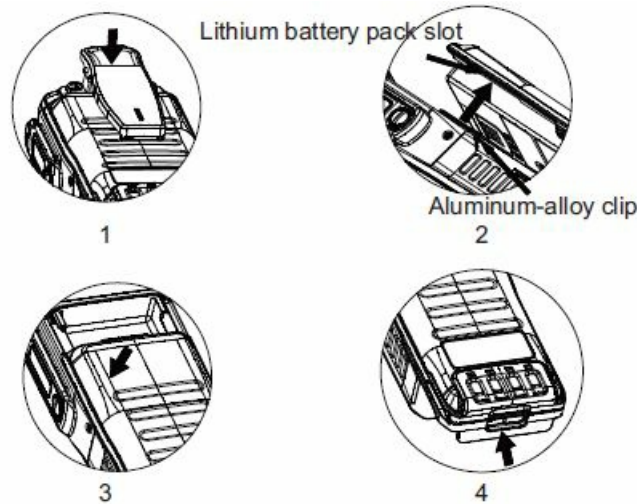
| No. | Name |
|-----|----------------------|
| 1 | Radio |
| 2 | Lithium battery pack |
| 3 | Antenna |
| 4 | Power adapter |
| 5 | Quick Guide |
| 6 | Strap |
| 7 | Rapid charger |

Installing the Lithium battery

Installing the Lithium battery pack

1. Press gently the upper part of the belt clip so that it springs up. (Figure 1)

2. Align the slot on the Lithium battery pack and the aluminum-alloy clip at the back of the radio. (Figure 2)
3. Put the Lithium battery pack into the Lithium battery pack holder. (Figure 3)
4. Push the Lithium battery pack latch in place. (Figure 4)

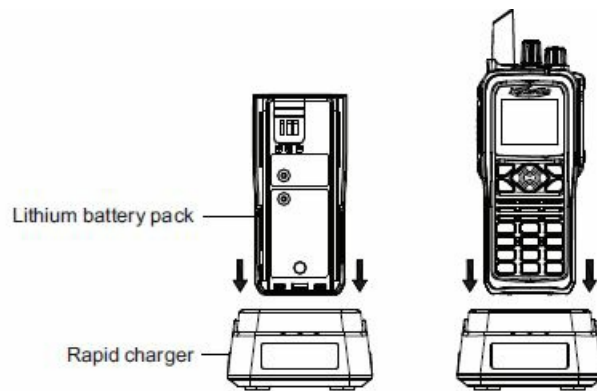


Charging the Lithium battery pack

1. Plug the power adapter into an AC power socket of the required specifications.
2. Connect the power adapter to the Rapid charger and the green LED indicator light is on.
3. Put a Lithium battery pack or the radio installed with a Lithium battery pack into the Rapid charger, and make sure the Lithium battery pack contacts well the charging contacts. During charging, red indicator light is on.
4. It takes about 5 hours to fully charge the Lithium battery pack, and then the LED indicator light turns green.
5. Disconnect the power adapter from the socket.

Note:

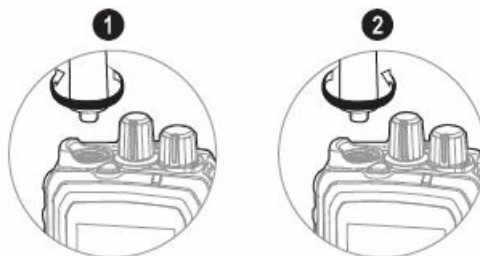
1. The radio is delivered uncharged. Before using it for the first time, please charge the Lithium battery pack.
2. Always use the supplied Lithium battery pack and desktop charger.
3. A new Lithium battery pack or one that has been stored for more than
4. 2 months after charging needs to be charged several times to achieve its normal capacity.
5. To maintain the service life and performance of the Lithium battery pack, do not charge it if it is fully charged or before a low-voltage warning. After charging, take the Lithium battery pack out of the Rapid charger.
6. Turn off the radio before charging it. The Lithium battery pack cannot be charged properly if you use the radio while charging it.
7. Connect the radio to the Rapid charger only when the Lithium battery pack needs to be charged. Continuous charging will shorten the Lithium battery pack life. Do not use the Rapid charger as a holder.



Installing/Uninstalling

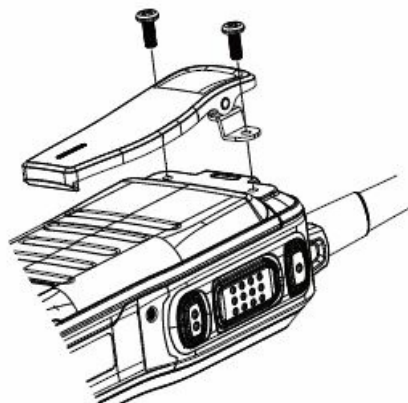
Installing/Uninstalling the Antenna

Insert the threaded end of the antenna into the antenna interface, and rotate the antenna tight clockwise. (Figure 1) To uninstall the antenna, rotate it counterclockwise. (Figure 2)



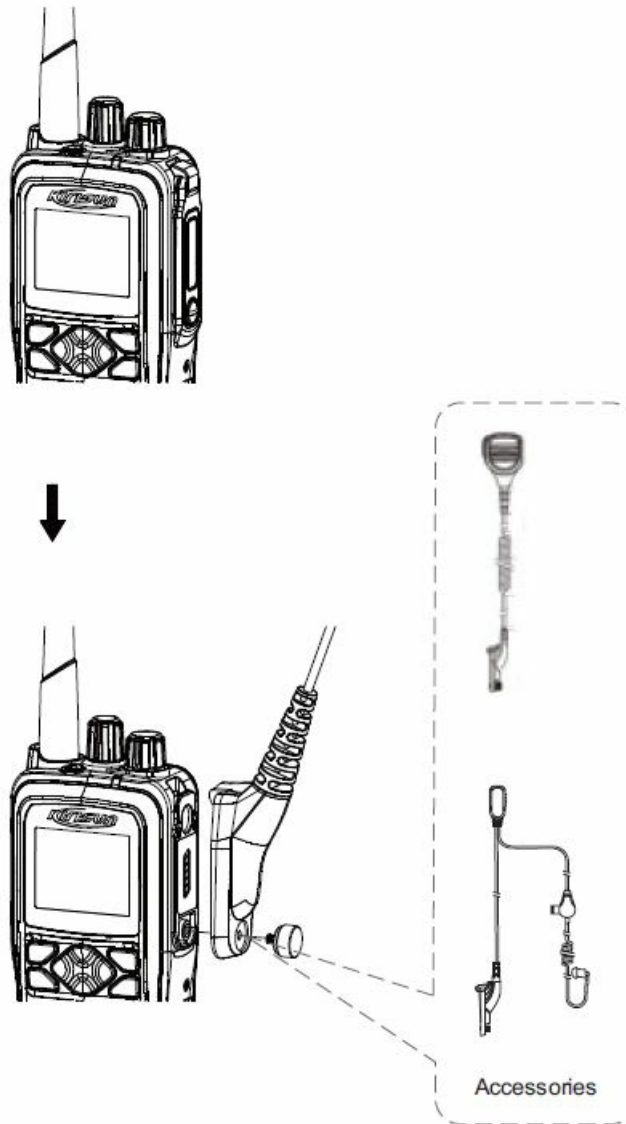
Installing/Uninstalling Belt Clip

Align the two screw holes of the belt clip with the screw holes at the back of the radio, and screw up the screws using a screwdriver. To uninstall the belt clip, unscrew the screws and take off the belt clip.



Installing External Audio Parts

Connect an audio accessory to the audio accessory interface, and fasten it using the screw.

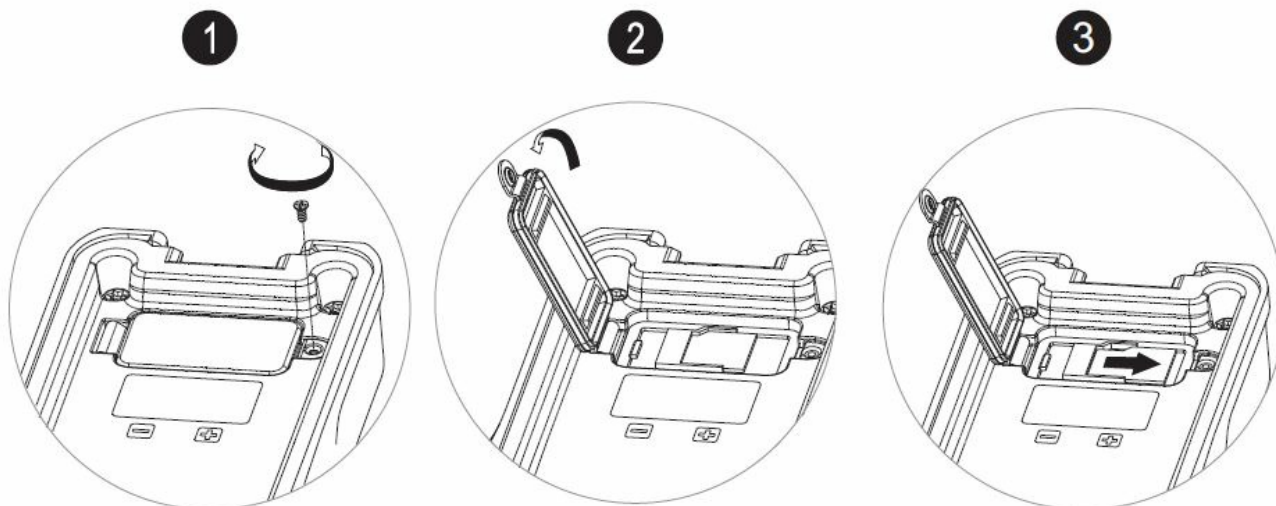


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- Road, Xili Street, Nanshan District, Shenzhen, 518057 Guangdong, China

Installing/uninstalling TF card

Screw down the screw fastening the TF card cover using a Philips screwdriver.




























1. Rotate the cover leftwards to the edge of the aluminum housing.
2. Push the TF card rightwards and take it out.
3. To install a TF card, perform the above operation reversely.



LED Indicator

| Indicator State | Radio State |
|-----------------------|--|
| Red light on | Transmitting signals |
| Green light on | Receiving signals, e.g. voice, text message and data, or found traffic on a channel |
| Orange light on | Within call hang time (in digital mode) or auto reset time (in analog mode) |
| Orange light flashing | In emergency state, missed a call, receiving a call alert, or scanning |
| Red light flashing | Low power, receiving emergency alarm, failed startup self-detection, or being programmed |

LCD(Only DP810)

| | |
|---|---|
|  | Battery Level The less blank in the icon, the more remaining battery, and vice versa. When the battery is out, the icon turns red. |
|  | RSSI The more bars, the stronger the signals, and vice versa. This icon is displayed only when signals are received. |
|  | High-power transmission |
|  | Low-power transmission |
|  | Mute |
|  | New message |
|  | Status message |
|  | Inbox full |
|  | Emergency alarm mode enabled |
|  | Encryption mode enabled |
|  | Man Down enabled |
|  | Voice Operated Transmitting enabled |
|  | Initiating a call |
|  | Receiving a call |
|  | Talk-around mode enabled |
|  | Roaming enabled |
|  | GPS enabled but no GPS data received |
|  | GPS data received |
|  | Scanning (and the icon rotating) |
|  | Dwell on conventional channel during scan |
|  | Dwell on priority channel 1 during scan |
|  | Dwell on priority channel 2 during scan |
| ID | |
|  | (Call type) individual call |
|  | (Call type) group call |
|  | (Call type) all call |
| | |
|  | Item selected |
|  | Item unselected |

Basic Operation

1. Powering On/Off

To power on the radio, rotate the Power/Volume knob 1 clockwise you a (page i displayed, the backlight is on, and there is a “beep” sound. To power off the radio, rotate [the Power/Volume knob) counterclockwise until you a dick.

2. Selecting a Channel

In the standby state, rotate [the Channel knob] to select a channel.

Each channel can be set to an analog digital channel and can switch between analog and digital modes by rotating (the Channel knob]

3. Adjusting the Volume

When the radio is on, turn [the Power/Volume knob) clockwise to turn the volume r counterclockwise to turn it down.

Note: If you continue to rotate the knob after turning to the minimum w volume, the radio will be powered off and you will hear a click.

4. **Making a Call**

- **Calling a Default Contact** If a default contact is already set for a channel, you can call the contact holding down [the PTT key] You may have a default contact set by your dealer for each digital channel.
- **Selecting and Calling Contact** In the menu, select Contact, select a contact from the Contact List, and hold down [the PTT key).
- **Dialing to Call Contact** In the menu, select Contact, select Dial, dial a contact's ID, and hold down [the PTT key).

5. **Receiving a Call**

When the radio receives a call, the green LED indicator light is on, and the call type caller and coming received voice are played. During the displayed screen, I hang time and if no more call is received, you can call back by holding down the PTT key.

- **Note:** To receive a group call, please have the radio set as a group member by your dealer using the CPS.

6. **Emergency Alarm**

In an emergency, you can send an alarm message and a voice message to a specified group for help. You can send the alarm anytime even when the radio is transmitting traffic.

7. **Call Log**

You can check and manage recent outgoing, incoming, and missed individual calls.

8. **GPS Positioning**

Through this function, you can view the location information of the radio, which can also be updated on a location app server. Please enable/disable this function via the CPS, and turn it on/off through the menu.

9. **Operating Mode**

The radio can operate under conventional, digital trunking, and MPT trunking modes. Please select a mode through the menu.

Troubleshooting

| SN | Failure Description | Reason and Solution |
|----|---------------------|---|
| 1 | Power-on failed | <p>R: Low remaining battery capacity. S: Charge or replace the battery.</p> <p>R: Poor contact between the battery and the wiring terminals of the power supply. S: Install the battery again.</p> <p>R: Dirty battery contacts. S: Clean battery contacts.</p> |

| SN | Failure Description | Reason and Solution |
|----|------------------------|---|
| 2 | Rx failed | <p>R: Different frequencies in Rx-Tx frequency pair between both sides. S: Use the same frequency in TX-RX frequency pair between both sides.</p> <p>R: Different CTCSS/CDCSS codes on both sides. S: Set the same CTCSS/CDCSS code on both sides via PC.</p> <p>R: Beyond communication distance. S: Shorten communication distance.</p> |
| 3 | Communication failed | <p>R: Poor antenna contact. S: Install the antenna again.</p> <p>R: Different frequencies in Rx-Tx frequency pair between both sides. S: Use the same frequency in TX-RX frequency pair between both sides.</p> <p>R: Beyond communication distance. S: Shorten communication distance.</p> |
| 4 | GPS positioning failed | <p>R: The antenna is not dual-band. S: Use a dual-band antenna.</p> <p>R: Wrong GPS setting. S: Set GPS again.</p> <p>R: In a shielded environment. S: Go to an open area.</p> |
| 5 | Programming exception | <p>R: Improper connection. S: Connect the radio to a PC properly.</p> <p>R: No USB driver is installed on the PC. S: Install the USB driver on the PC.</p> <p>R: Poor contact of earphone interface board. S: Replace the earphone interface board.</p> |

RED

1. **Mandatory requirement**
2. **Operation temperature range:** -20 C-50 C

3. **RF exposure information:** The device complies with RF exposure require when the device is used at 25mm from your body.
4. **Declaration of conformity:** Kirusun hereby declares that DP810/DP815 is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.
5. **Power adapter:** The adapter shall be installed near the equipment and shall be easily accessible.

Safety instruction

Ex Protection safety instruction and Approved Accessories listing


Certification standards:

- **IEC 60079-0:** 2017 Explosive atmospheres
 - **Part 0:** Equipment – General requirements IC 60079-11: 2011. Explosive atmospheres
 - **Part 11:** Equipment protection by intrinsic safety “i”
- **IECE Ex marking:** Ex ib IIC T4 Gb Ex ib IIIC T120°C Db IP65
- **Certification No.:** IECE NEP 22.0014 The permitted ambient temperature range: -20°CsTas+50°C

Approved Accessories

| Accessories | Type Designation | Description |
|------------------------------|------------------|--|
| Lithium battery pack | KDC-810-Ex | DC 7.4V, 2100mAh; or DC 7.4V, 1960mAh |
| Rapid charger | KBC-810Q | Um = 15VDC |
| Remote Speaker Microphone | KKS-810Ex-A | / |
| Earpiece | KME-018-Ex | / |

Warnings and cautionary statements

| | |
|---|---|
| Conditions for Safe Use | <ul style="list-style-type: none"> ● I.S. Digital Radios Type DP810 & DP815 shall only be equipped with the Lithium battery pack type KDC-810-Ex. ● The Lithium battery pack shall only be allowed to be charged via the rapid charger type KBC-810Q in a non-hazardous area. ● Remote Speaker Microphone or Earpiece shall only be connected and disconnected in a non-hazardous area, and the accessory connector must be fastened tightly by a screw. ● The data transfer shall only be allowed via accessory connector in a non-hazardous. ● Do not use the jack of remote speaker microphone. |
|  WARNING | <ul style="list-style-type: none"> ● Do not charging in Hazardous locations! ● Do not maintenance in hazardous locations! ● Do not open Radios in hazardous locations! ● Please replace batteries in nonhazardous locations. ● The radios must be charged at an ambient temperature from 0°C to +45°C. |

| | |
|---|---|
| Transmitter Frequency: | 136-174MHz |
| Receiver Frequency: | 136-174MHz |
| RF-Output Power : ERP/EIRP/Conducted | High power level: 33.01dBm Low power level: 26.99dBm |



| | | | | | | | |
|----|----|----|----|----|----|----|----|
| BE | BG | CZ | DK | DE | EE | IE | EL |
| ES | FR | HR | IT | CY | LV | LT | LU |
| HU | MT | NL | AT | PL | PT | RO | SI |
| SK | FI | SE | NO | IS | LI | CH | TR |

FCC STATEMENTS

- This radio is designed for and classified as “Occupational/Controlled Use Only, meaning it must be used only during the course of employment by individuals aware of the hazards, and the ways to minimize such hazards; NOT intended for use in an General population/uncontrolled environment
- DO NOT operate the radio without a proper antenna attached, as this may damage the radio and may also cause you to exceed RF exposure limits. A proper antenna is an antenna supplied with this radio by the manufacturer or an antenna specifically authorized by the manufacturer for use with this radio.
- DO NOT transmit for more than 50% of total radio use time, more than 50% of the time can cause RF exposure compliance requirements to be exceeded.
- This transmitter may operate with the antenna(s) documented in this filing in Push-to-Talk and body-worn configurations. RF exposure compliance is limited to the specific belt-clip and accessory configurations as documented in this filing and the separation distance between the user and the device or its antenna shall be at least 2.5 cm.

Any Changes or modifications not expressly approved by the party responsible for compliance conk void the user’s authority to operate the environment 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 reference war may cause undesired moorers mount

Note: This equipment has been tested and found to como y with the mits for a G ass 8 digital device. pursuant to part of the FORTies. These items are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can raciale radio frequency energy and, a ho installed and used in accordance With the instructions. may cause harm interterence to radio communications. However. there is no guarantee that interterence will not occur in a famous art installation. it this equipment does the equipment off and on, the user is encouraged to try to correct the interference by one o more of the content of the following measure or relocate the receiving antenna

- Ingresse me separation between we equ omens and receiver.
- connect the equipment to an outlet on a crout o meant from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

ISED Warning

This product meets the applicable Industry Canada technical specifications. specifications techniques applicable

Industrie Canada. RE Exposure compliance and control Guidelines and Operating instructions To control your exposure and ensure compliance with the occupational/controlled environment exposure limits always adhere to the following procedures Guidelines


- Do not remove the RF Exposure Label from the device
- User awareness instructions should accompany device when transferred to other users
- Do not use this device if the operational requirements described herein are not met.

Operation instructions

- Transmit no more than the rated duty factor 50% of the time. To transmit (talk), push the Push-To-Talk (PTT) button. To receive calls, release the PTT button. Transmitting 50% of the time, or less is important as radio generates measurable RF energy exposure only when transmitting (in terms of measuring for standards compliance).
- Hold the radio in a vertical position in front of the face with the microphone (and the other parts of the radio, including the antenna) at least one inch (2.5 cm) away from the nose. Keeping the radio at the proper distance is important because exposures decrease with distance from the antenna. Antenna should be kept away from eyes.
- When worn on the body, always place the radio in the approved clip, holder, holster, case, or body harness for this product. Use of non-approved accessories may result in exposure levels, which exceed the occupational/controlled environment RF exposure limits
- Use only the manufacturer's name approved supplied or replacement antennas, batteries, and accessories. Use of non-manufacturer-name-approved antennas, batteries, and accessories may exceed the FCC and IC RF exposure guidelines. For list approved accessories please consult your local dealer for information.

3rd Floor, Building A, Tongfang Information Harbour, No. 11 Langshan Road Nanshan District, Shenzhen 518057 China Please read carefully the Safety Information before using the product.

Documents / Resources

| | |
|---|--|
|  | Kirisun DP810, DP815 I.S. Digital Radio [pdf] User Guide DP810, DP815, DP810 DP815 I.S. Digital Radio, DP810 I.S. Digital Radio, DP815 I.S. Digital Radio, I.S. Digital Radio, I.S. Radio, Digital Radio, Radio |
|---|--|