

Thanks for your favor in our product. This manual provides guidance for you to use the product. To avoid body injury or property loss caused by misoperation, please carefully read the *Safety Information Booklet* before using the product.

This manual is applicable to the following product:

TR2X Digital Portable Radio.

DIGITAL PORTABLE RADIO



FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates and can radiate radio frequency energy. If not installed and used in accordance with the instructions, it may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. Verification of harmful interference by this equipment to radio or television reception can be determined by turning it off and then 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 different circuit to that of the receiver's outlet.
- Consult the dealer or an experienced radio/TV technician for help.

Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

Note: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Compliance with RF Exposure Standards

The portable radio complies with the following RF energy exposure standards and guidelines:

- United States Federal Communications Commission, Code of Federal Regulations; 47 CFR § 1.1307, 1.1310 and 2.1093.
- American National Standards Institute (ANSI) / Institute of Electrical and Electronic Engineers (IEEE) C95. 1:2005; Canada RSS102 Issue 5 March 2015.
- Institute of Electrical and Electronic Engineers (IEEE) C95.1:2005 Edition

RF Exposure Compliance and Control Guidelines and Operating Instructions

To control your exposure and ensure compliance with the occupational/controlled environmental 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.

Operating Instructions:

- Transmit no more than the rated duty factor of 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 because the radio generates measurable RF energy only when transmitting (in terms of measuring for standards compliance).
- Keep the radio unit at least 2.5 cm away from the face. Keeping the radio at the proper distance is important as RF exposure decreases with distance from the antenna. The antenna should be kept away from the face and eyes.
- When worn on the body, always place the radio in the approved holder, holster, case, or body harness or by use of the correct clip for this product. Use of non-approved accessories may result in exposure levels which exceed the FCC's occupational/controlled environmental RF exposure limits.
- Use of non-approved antennas, batteries, and accessories causes the radio to exceed the FCC RF exposure guidelines.
- Contact your local dealer for the product's optional accessories.

IC Statement

The device has been tested and complies with SAR limits, users can obtain Canadian information on RF exposure and compliance

Après examen de ce matériel aux conformité aux limites DAS et/ou aux limites d'intensité de champ RF, les utilisateurs peuvent sur l'exposition aux radiofréquences et la conformité and compliance d'acquérir les informations correspondantes

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

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

EU Regulatory Conformance

As certified by the qualified laboratory, the product is in compliance with the essential requirements and other relevant provisions of the following directives: 1999/5/EC or 2014/53/EU, 2006/66/EC, 2011/65/EU, and 2012/19/EU.

Please note that the above information is applicable to EU countries only.

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Packing List

Please unpack carefully and check that all items listed below are received. If any item is missing or damaged, please contact your dealer.

Item	Quantity (PCS)	Item	Quantity (PCS)
Radio	1	Belt Clip	1
Battery	1	Strap	1
Power Adapter	1	Documentation Kit	1
Antenna	1	/	/

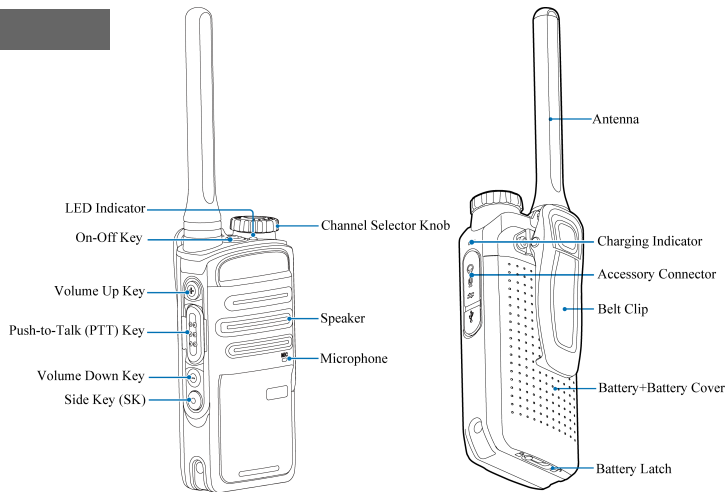


Note

Check whether the frequency band marked on the antenna label matches that on the radio label. If not, please contact your dealer.

Product Overview

Product Controls



Note

You can request your dealer to program your radio to use the **SK** as the shortcut to a radio feature.

LED Indications

LED Indicator	Radio Status
Flashes green	Being turned on.
Glow green	Receiving.
Glow red	Transmitting.
Flashes orange slowly	Scanning.
Glow orange	Call hang time: No voice is being transmitted or received on the channel during a call. Within such a period, you can press and hold the PTT key and speak.

Before Use

Attaching the Antenna

1. Place the antenna in its receptacle.
2. Rotate the antenna clockwise until hand tight.

Caution

Do not hold the radio by the antenna, as it may reduce the radio performance and life span of the antenna.

Attaching the Battery

1. Slide the battery latch to the unlock position, and remove the battery cover.
2. Align the battery contacts with the contacts in the battery compartment, and press the battery into place.
3. Insert the protrusions at the top of the battery cover into the radio, and press the cover into place.
4. Slide the battery latch to the lock position.

Note

To remove the battery, make sure the radio is turned off, remove the battery cover, and lift the bottom of the battery.

Attaching the Belt Clip

1. Use a Phillips screwdriver to turn the screws counterclockwise on the back of the radio and remove them.
2. Align the screw holes on the belt clip with those on the back of the radio.
3. Put the screws back in place, and use the Phillips screwdriver to turn them clockwise until hand tight.

Attaching the Audio Accessories

1. Open the accessory connector cover.
2. Plug the accessory into the accessory connector.
3. Turn the screw on the accessory plug clockwise until hand tight.

Charging the Battery

Caution

- Use the approved charger to charge the battery.
- Read the *Safety Information Booklet* before charging.

The new battery is uncharged. Before initial use, fully charge the battery to ensure optimum performance. It is recommended that your radio remain powered off during charging.

To charge the battery, do as follows:

1. Insert the USB connector of the power adapter into the USB port of the radio.
2. Plug the power adapter into a power outlet, and then switch the power outlet on.

To determine the charging status, check the charging indicator on the radio according to the following table:

LED Indicator	Charging Status
Glows red	The battery is charging.
Glows green	The battery is fully charged.

Checking the Battery Power

To check the current battery power, press and hold the **Battery Power Indicator** key preprogrammed by your dealer. The following table lists battery power indications.

LED Indicator	Alert Tone	Battery Power
Glows green	Three beeps	High
Glows orange	Two beeps	Medium
Glows red	One beep	Low
Flashes red	Low battery tone	Under the low battery threshold. Please recharge or replace the battery.

Basic Operations

If you want to...	Then...
Turn on/off the radio	Press the On-Off key.
Increase the volume	Press the Volume Up key.
Decrease the volume	Press the Volume Down key.
Select a channel	Rotate the Channel Selector knob.

Call Services

Call on Digital Channel

You can initiate a call to or receive a call from the private or group contact preset for a digital channel.

Initiating a Call

1. Select the required channel.
2. Hold the radio vertically 2.5 to 5 cm from your mouth.
3. Press and hold the **PTT** key, and then speak into the microphone.

Receiving and Responding to a Call

When receiving a call, you can listen to it without any operation. In call hang time, you can press and hold the **PTT** key and speak.

Call on Analog Channel (Without Signaling)

You can initial a call to or receive calls from all other users on an analog channel without signaling. The operations are the same as those on a digital channel.

Optional Features

The following features need to be programmed by your dealer. Please contact your dealer for detailed operations.

Type	Feature	Description
General Feature	Zone	Allows you to select a zone. The radio supports up to 3 zones, with a maximum of 16 channels per zone.
	Power Level	Allows you to switch the transmit power level between high and low.
	Scan	Allows the radio to scan all channels in the scan list preset for the current channel and stay on a channel with activities.
	Emergency Alarm	Allows you to initiate an emergency alarm or call to ask for help in case of emergency.
	Busy Channel Lockout	Prevents the radio from transmitting on a busy channel.
	Time-out Timer (TOT)	Terminates transmission when the preset time period expires.
Digital Feature	Battery Save	Allows the radio to automatically enter the battery save mode when it does not detect any activity or operation within the preset period.
	All Call	Allows you to initiate a call to all users on a digital channel.
	One Touch Call	Allows you to press one key to call the predefined private or group contact.
Analog Feature	TDMA Direct Mode	Allows the radio to operate on a channel with two time slots.
	Squelch Off	Allows the radio's speaker to always keep unmuted.
	Squelch Level	Allows you to adjust the squelch threshold required for the radio to unmute.
	Monitor	Allows the radio to receive weak signals.
	CTCSS/CDCSS	Allows you to prevent unwanted calls on the same frequency.

Troubleshooting

Phenomena	Analysis	Solution
You cannot turn on the radio.	The battery may be installed improperly.	Remove and reattach the battery.
	The battery power may run out.	Recharge or replace the battery.
	The battery may suffer from poor contact caused by dirty or damaged battery contacts.	Clean the battery contacts or replace the battery.
During receiving, the voice is weak or intermittent.	The battery voltage may be low.	Recharge or replace the battery.
	The volume level may be low.	Increase the volume.
	The antenna may be loose or may be installed incorrectly.	Turn off the radio, and then remove and reattach the antenna.
	The speaker may be blocked.	Clean the surface of the speaker.
You cannot communicate with other group members.	The frequency or signaling type may be inconsistent with that of other members.	Verify that your TX/RX frequency and signaling type are correct.
	The channel type (digital or analog) may be set incorrectly.	Verify that you are on the correct digital or analog channel.
	You may be too far away from other members.	Move towards other members.
You hear unknown voices or noise.	You may be interrupted by radios using the same frequency.	Change the frequency, or adjust the squelch level.
	The radio in analog mode may be set with no signaling.	Request your dealer to set signaling for the current channel to avoid interference.

Phenomena	Analysis	Solution
You are unable to hear anyone because of too much noise and hiss.	You may be too far away from other members.	Move towards other members.
	You may be located in an unfavorable position. For example, your communication may be blocked by high buildings or blocked in an underground area.	Move to an open and flat area, and restart the radio and try again.
	It may be the result of external disturbance (such as electromagnetic interference).	Stay away from equipment that may cause interference.

If the above solutions cannot fix your problems, or you may have some other queries, please contact us or your local dealer for more technical support.

Care and Cleaning

To guarantee optimal performance as well as a long service life of the product, please follow these tips.

Product Care

- Do not pierce or scrape the product.
- Keep the product far away from substances that can corrode the circuitry.
- Do not hold the product by the antenna or earpiece cable.
- Close the accessory connector cover when no accessory is in use.

Product Cleaning

Caution

Turn off the product and remove the battery before cleaning.

- Clean up the dust and fine particles on the products surface and charging piece with a clean and dry lint-free cloth or a brush regularly
- Use neutral cleanser and a non-woven fabric to clean the keys, knobs and front case after long-time use. Do not use chemical preparations such as stain removers, alcohol, sprays or oil preparations, so as to avoid surface case damage.
- Make sure the product is completely dry before use.

Optional Accessories

Caution

Use the approved accessories ; otherwise, we will not be liable for any loss or damage arising out of the use of any unauthorised accessories.

Contact your local dealer for the optional accessories used with the product.