Hytera BP36X Digital Portable Radio

User Manual

Hytera Communications Corporation Limited

SyncComms

Preface

Welcome to the world of Hytera and thank you for purchasing this product. This manual includes a description of the functions and step-by-step procedures for use.

To avoid bodily injury or property loss caused by incorrect operation, please carefully read the *Safety Information Booklet* before use.

This manual is applicable to the following product:

BP36X Digital Portable Radio (X may represent 2, 5, 6, 8, or 9)

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FCC Compliance 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:

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- 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.

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

FCC SAR Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End user must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The portable device is designed to meet the requirements for exposure to radio waves established by the Federal Communications Commission (USA). These requirements set a SAR limit of 1.6 W/kg averaged over one gram of tissue. The highest SAR value reported under this standard during product certification for use when properly worn on the body and head.

ISED Compliance Statement

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

(1) This device may not cause interference.

(2) This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique 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;

(2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

IC SAR Statement

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. End user must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The portable device is designed to meet the requirements for exposure to radio waves established by the ISED. These

requirements set a SAR limit of 1.6 W/kg averaged over one gram of tissue. The highest SAR value reported under this standard during product certification for use when properly worn on the body and head.

Cet équipement est conforme aux limites d'exposition aux rayonnements de l'ised pour les environnements non contrôlés. L'utilisateur final doit se conformer à des instructions d'exploitation spécifiques afin de respecter la conformité à l'exposition aux radiofréquences. L'émetteur ne doit pas être au même endroit qu'une autre antenne ou un autre émetteur et ne doit pas fonctionner avec une autre antenne ou un autre émetteur.

L'appareil portatif est conçu pour répondre aux exigences d'exposition aux ondes radio de l'ised. Ces exigences fixent une limite moyenne de SAR de 1,6 W / kg pour un gramme de tissu. Les valeurs SAR les plus élevées rapportées conformément à la présente norme lorsqu'elles sont portées correctement sur le corps et la tête pendant la certification du produit.

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Documentation Information

Documentation Conventions

Instruction Conventions

Icon	Description
TIP	Indicates information that can help you make better use of your product.
NOTE	Indicates references that can further describe the related topics.
CAUTION	Indicates situations that could cause data loss or equipment damage.
WARNING	Indicates situations that could cause minor personal injury.
DANGER	Indicates situations that could cause major personal injury or even death.

Notation Conventions

Item	Description	Example
Boldface	Denotes menus, tabs, parameter names, window names, dialogue names, and hardware buttons.	To save the configuration, click **Apply**.
		The **Log Level Settings** dialogue box appears.
		Press the **PTT** key.
" "	Denotes messages, directories, file names, folder names, and parameter values.	The screen displays "Invalid Battery!".
		Open "PSS.exe".
		Go to "D:/opt/local".
		In the **Port** text box, enter "22".
>	Directs you to access a multi-level menu.	Go to **File** > **New**.
Italic	Denotes document titles.	For details about using the DWS, refer to *Dispatch Workstation User Guide*.
`Courier New`	Denotes commands and their execution results.	To set the IP address, run the following command: `vos-cmd - m name IP`

Key Operations

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Operation	Description
Short press	Press and release quickly.
Long press	Press and hold for preset time.
Press and hold	Keep the key pressed.

1. Packing List

Unpack carefully and check that you have received the following items. If any item is missing or damaged, contact your dealer.

Item	Quantity (PCS)	Item	Quantity (PCS)
Radio	1	USB Type-C Cable	1
Power Adapter	1	Strap	1
Belt Clip	1	Documentation Kit	1

NOTE

Figures in this manual are only for reference.

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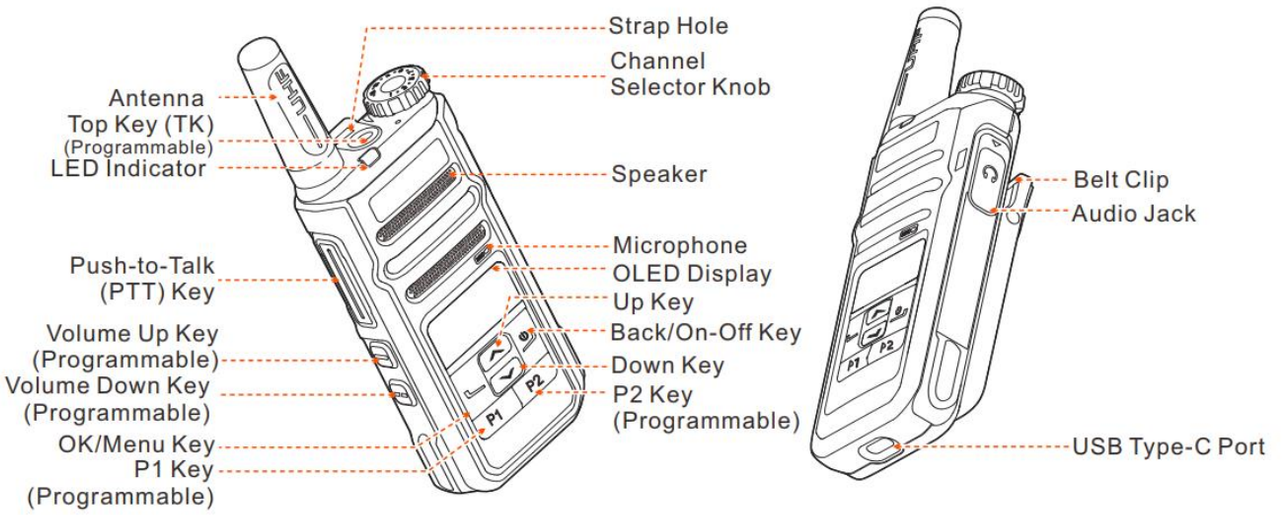
2. Product Layout



NOTE

To assign other features to programmable keys, contact your dealer.

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3. Before Use

3.1 Charge the Battery

CAUTION

- Read the *Safety Information Booklet* before charging.
- The remaining lithium-ion battery power is limited to 30% pursuant to the new lithium battery shipment regulation approved by the International Air Transport Association (IATA).

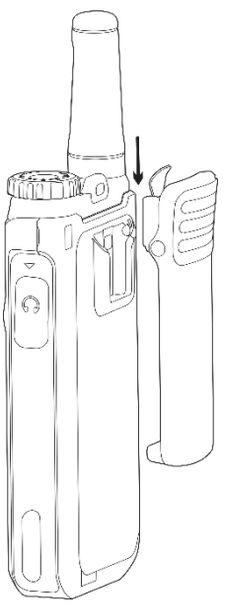
Use the USB Type-C cable to connect the radio with battery attached to the power adapter, power bank, or PC.

You can learn the charging status through the LED indicator.

LED Indicator	Charging Status
Glows red	The battery is being charged.
Flashes red once every 1s	The battery fails to be charged.
Glows green	The battery is fully charged.

3.2 Attach the Belt Clip

Align the holder on the belt clip with the groove on the battery, and then press the belt clip downwards into place.



NOTE

You can press and hold the belt clip spring plate and push the belt clip upwards to remove it.

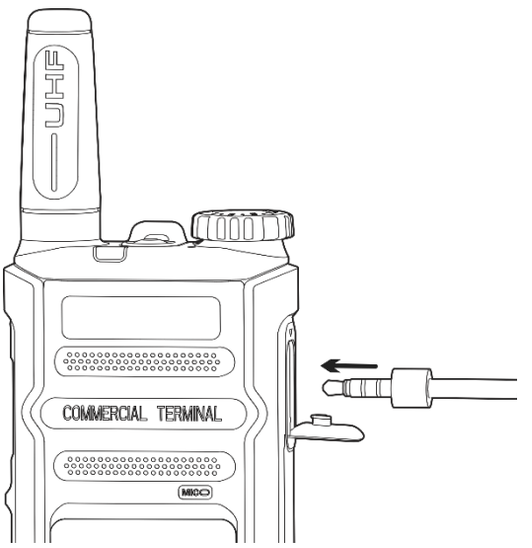
3.3 Attach the Audio Accessory

⚠ CAUTION

For optimal waterproof and dustproof performance, do as follows:

- Attach the accessory with care to avoid scraping the silicone rubber surrounding the audio jack.
- Close the audio jack cover after removing the accessory.

1. Open the audio jack cover.
2. Insert the audio accessory plug into the audio jack.



4. Basic Operations

4.1 Turn On or Off the Radio

Long press the **Back/On-Off** key.

4.2 Force Restart the Radio

If the radio fails to work properly, you can force restart the radio.

1. (Optional) Disconnect the USB Type-C cable from the radio.
2. Long press the **Back/On-Off** key for over 13s.

4.3 Adjust the Volume

1. Set the tone volume to **Current Tone**.
   a. In the **Settings** interface, press the **Up** key or **Down** key to select **Tones**, and then press the **OK/Menu** key.
   b. In the **Tones** interface, select a service or operation, and then press the **OK/Menu** key.
   c. Select **Current Tone**, and the press **OK/Menu** key.
2. Press the **Volume Up** key to increase the volume, or **Volume Down** key to decrease the volume.

4.4 Select a Zone

A zone is a group of channels within the same operational area. The radio supports 8 zones, each of which consists of up to 16 channels.

Through Zone List

1. On the home screen, press the **OK/Menu** key.
2. Press the **Up** key or **Down** key to select **Zone**, and then press the **OK/Menu** key.
3. Select the zone, and then press the **OK/Menu** key.

Through Programmable Key

Press the preprogrammed **Zone Up** or **Zone Down** key.

4.5 Select a Channel

The radio receives and transmits voice and data on the selected channel. Before selecting a channel, make sure that the current zone contains the channel. The radio can be configured with 256 channels.

To select a channel, rotate the **Channel Selector** knob.

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4.6 Select a Contact

1. On the home screen, press the **OK/Menu** key.
2. Press the **Up** key or **Down** key to select **Contacts**, and then press the **OK/Menu** key.
3. Select **Contact List**, and then press the **OK/Menu** key.
4. Select **Private Call**, **Group Call**, or **All Call**, and then press the **OK/Menu** key.
5. Select a contact, and then press the **OK/Menu** key.

4.7 Check Device Info

1. On the home screen, press the **OK/Menu** key.
2. Press the **Up** key or **Down** key to select **Device Info**.
3. Press the **OK/Menu** key.

   You can view the radio ID, model, firmware version, serial number, and more.

5. Status Indications

You can learn the radio status through status icons and the LED indicator.

5.1 Status Icons

LCD Icon	Radio Status
	More bars indicate more remaining battery power.
	The battery runs out.
	The battery is being charged.
	The BT is enabled.
	A BT accessory is connected.
	The radio detects no signal.
	More bars indicate stronger signal.
	In analog mode, the radio transmits when the **PTT** key is pressed.
	The radio operates in low TX power.
	The radio operates in high TX power.
	The radio is scanning.
	The radio stays on an active channel.
	Direct Mode: The radio transmits and receives directly.
	Repeater Mode: The radio transmits and receives through a repeater.
	Voice Activated Transmit (VOX) is enabled.
	The speaker is turned on.
	The radio operates in Silent Mode.
	An accessory is connected.
	Monitor is enabled.
	Scrambler is enabled.
	Squelch Off is enabled.

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5.2 LED Indicator

LED Indicator		Radio Status
Flashes green		The radio is being turned on.
Glows red		The radio is transmitting.
Glows green		The radio is receiving.
Flashes red	Once every minute	The battery power is low.
	Once every 0.2s	The radio is being programmed.
Flashes orange slowly		The radio is scanning.
Glows orange		The call is on hold.
Flashes blue	Once every 3s	BT is enabled, and no accessory is connected.
	Once every 1.5s	A BT accessory is connected.
	Once every 0.1s	BT is being disabled.

6. Call on Digital Channel

To ensure optimal voice quality on the receiving radio, keep the microphone about 2.5 cm to 5 cm away from your mouth during speaking.

6.1 Group Call

A group call is a call from an individual user in a group to all the other members in the group.

6.1.1 Initiate a Group Call

Through Preset Contact

1. Rotate the **Channel Selector** knob to select the group contact preset for the digital channel.
2. Press and hold the **PTT** key.

Through Contact List

1. Select the group contact according to 4.6 Select a Contact.
2. Press and hold the **PTT** key.

6.1.2 Answer a Group Call

You can answer a group call without any operation.

6.1.3 End a Group Call

A group call ends when the call hang time expires.

6.2 Private Call

A private call is a call from an individual user to another individual user.

6.2.1 Initiate a Private Call

Through Preset Contact

1. Rotate the **Channel Selector** knob to select the private contact preset for the digital channel.
2. Press and hold the **PTT** key.

Through Contact List

1. Select the private contact according to 4.6 Select a Contact.
2. Press and hold the **PTT** key.

6.2.2 Answer a Private Call

You can answer a private call without any operation.

6.2.3 End a Private Call

A private call ends when the call hang time expires.

6.3 All Call

An all call is a call from an individual user to all the other users on the current digital channel.

6.3.1 Initiate an All Call

Through Preset Contact

1. Rotate the **Channel Selector** knob to select the all call contact preset for the digital channel.
2. Press and hold the **PTT** key.

Through Contact List

1. Select the all call contact according to 4.6 Select a Contact.
2. Press and hold the **PTT** key.

6.3.2 Answer an All Call

You can answer an all call without any operation.

6.3.3 End an All Call

An all call ends when the caller releases the **PTT** key.

6.4 Call on Analog Channel (Without Signaling)

On an analog channel without signaling, you can initiate a call to all the other users on the channel.

1. Rotate the **Channel Selector** knob to select an analog channel.
2. Press and hold the **PTT** key.

7. Settings

7.1 Enter the Settings Interface

1. On the home screen, press the **OK/Menu** key.
2. Press the **Up** key or **Down** key to select **Settings**, and then press the **OK/Menu** key.

7.2 Lock the Keypad

You can lock the keypad to prevent misoperation.

Auto Lock

1. In the **Settings** interface, press the **Up** key or **Down** key to select **Keypad Lock**, and then press the **OK/Menu** key.
2. (Optional) In the **Keypad Lock** interface, do the following:

If You Want to…	Then…
Set the key to be locked	1. Select **Lock Key**. 2. Select a key or multiple keys, and then press the **OK/Menu** key.
Change the preset lock time	1. Select **Lock Time**. 2. Select a time, and then press the **OK/Menu** key.

3. Select **Auto Lock**, and then press the **OK/Menu** key.

   If the radio remains idle beyond the preset lock time, the keypad will be locked automatically.

Manual Lock

- Press the preprogrammed **Keypad Lock** key.
- On the home screen, press the **OK/Menu** key, and then press the **P1** key.

7.3 Set the Backlight

You can turn on the backlight to illuminate the LCD, which facilitates your operation under dim light.

1. In the **Settings** interface, press the **Up** key or **Down** key to select **Backlight**, and then press the **OK/Menu** key.
2. Do the following:

If You Want to…	Then…
Set backlight time	1. Select **Time**, and then press the **OK/Menu** key.

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If You Want to…	Then…
	2. Select a time, and then press the **OK/Menu** key.
Adjust the brightness level	1. Select **Brightness**, and then press the **OK/Menu** key. 2. Select a brightness level, and then press the **OK/Menu** key.

7.4 Set the Silent Mode and Tones

7.4.1 Radio Silent

After Radio Silent is enabled, the radio does not produce tones for any operation.

To enable or disable Radio Silent, do either of the following:

Through Programmable Key

Press the preprogrammed **Radio Silent** key.

Through Settings Interface

1. In the **Settings** interface, press the **Up** key or **Down** key to select **Tones**, and then press the **OK/Menu** key.
2. In the **Tones** interface, select **Radio Silent**, and then press the **OK/Menu** key.

7.4.2 Tones

You can enable or disable tones for different operations.

1. In the **Settings** interface, press the **Up** key or **Down** key to select **Tones**, and then press the **OK/Menu** key.
2. In the **Tones** interface, select a service or operation, and then press the **OK/Menu** key.
3. Set the tone level, and then press the **OK/Menu** key.

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8. Supplementary Services

8.1 VOX

Voice Activated Transmit (VOX) allows the voice to trigger transmission. When the voice detected by the microphone reaches the value to trigger the transmission, the radio automatically transmits the voice without the **PTT** key pressed. VOX Gain preprogrammed by your dealer is used to control the sensitivity of microphone transmission.

To enable or disable VOX, do either of the following:

- Press the preprogrammed **VOX** key.
- In the **Settings** interface, press the **Up** key or **Down** key to select **VOX**, and then press the **OK/Menu** key.

8.2 Power Level

Power Level allows you to set the TX power level to high or low. High power enables communication with radios far away from you but consumes more battery power. Low power enables communication with radios close to you and saves battery power.

To adjust the power level, press the preprogrammed **Adjust Power Level** key.

8.3 Scan

Scan allows you to listen to activities on other channels, keeping track of your team members.

To enable or disable Scan, do either of the following:

- Press the preprogrammed **Scan** key.
- In the **Settings** interface, press the **Up** key or **Down** key to select **Scan**, and then press the **OK/Menu** key.

With Scan enabled, the radio scans according to the scan list preset for the current channel, during which the LED indicator flashes orange slowly. When detecting activities on a channel, the radio stays on the channel and the LED indicator glows green.

8.4 Squelch

8.4.1 Squelch Off

Squelch Off keeps the speaker unmuted regardless of whether carrier exists, during which the radio sounds background noise.

To enable or disable Squelch Off, do either of the following:

Through Programmable Key

Press the preprogrammed **Squelch Off** key.

Through Squelch Interface

1. In the **Settings** interface, press the **Up** key or **Down** key to select **Squelch**, and then press the **OK/Menu** key.
2. Select **Squelch**, and then press the **OK/Menu** key.

8.4.2 Squelch Level

Squelch Level refers to the squelch threshold required for the speaker of the radio to be turned on. The higher squelch level requires stronger signal.

To adjust Squelch Level, do either of the following:

Through Programmable Key

Press the preprogrammed **Adjust Squelch Level** key.

Through Squelch Interface

1. In the **Settings** interface, press the **Up** key or **Down** key to select **Squelch**, and then press the **OK/Menu** key.
2. (Optional) Set each squelch level.
   a. Select **Level Setting**, and then press the **OK/Menu** key.
   b. Select **Open Level**, **Normal Level**, or **Tight Level**, and then press the **OK/Menu** key.
   c. Select a level, and then press the **OK/Menu** key.
3. Select **Squelch Level**, and then press the **OK/Menu** key.
4. Select the **Open**, **Normal**, or **Tight**, and then press the **OK/Menu** key.

NOTE

Level Standard: Open < Normal < Tight

8.5 Scrambler

Scrambler allows the radio to invert the frequency spectrum of transmitted audio signals. Only the receiving radio with the same Scrambler settings can restore the audio signals. This prevents eavesdropping and ensures communication privacy.

To enable or disable Scrambler, press the preprogrammed **Scrambler** key.

8.6 Monitor

Monitor allows the radio to receive more signals including weak signals, and helps you to recognize weak voices in the speaker.

To switch between Monitor Squelch Mode and Receive Squelch Mode, press the preprogrammed **Monitor** key.

8.7 Talk Around

Talk Around allows you to continue communication in direct mode when the repeater malfunctions or your radio is out of the coverage of the repeater.

To switch between Direct Mode and Repeater Mode, press the preprogrammed **Talk Around** key.

8.8 BT

CAUTION

- To derive optimal communication quality, it is recommended that you use the BT devices approved by Hytera.
- If BT earpieces of other companies are used, you must use them with the wireless ring PTT of Hytera. Otherwise, transmission is unavailable through the earpieces.

BT enables the radio to connect to a BT device for short-distance communication and data exchange.

To enter the **BT** interface, do the following:

1. On the home screen, press the **OK/Menu** key.
2. Press the **Up** key or **Down** key to select **BT**, and then press the **OK/Menu** key.

8.8.1 Enable BT

- Press the preprogrammed **BT** key.
- In the **BT** interface, press the **Up** key or **Down** key to select **BT**, and then press the **OK/Menu** key.

  After BT is enabled, the LED indicator flashes blue once every 3s.

8.8.2 Connect a BT Device

Unpaired Device

1. Switch the BT device to the pairing status.

   For details, refer to the *User Manual* of the BT device.
2. In the **BT** interface, press the **Up** key or **Down** key to select **Auto Search**, and then press the **OK/Menu** key.

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3. Select the searched device, and then press the **OK/Menu** key.

Paired Device

1. In the **BT** interface, press the **Up** key or **Down** key to select **Paired Device**, and then press the **OK/Menu** key.
2. Select the device, and then press the **OK/Menu** key.
3. Select **Pair**, and then press the **OK/Menu** key.

8.8.3 Check the BT MAC Address

1. In the **BT** interface, press the **Up** key or **Down** key to select **My Device**, and then press the **OK/Menu** key.
2. Select **Hytera**, and then press the **OK/Menu** key.

8.8.4 Set the Radio to Be Always Discovered

1. In the **BT** interface, press the **Up** key or **Down** key to select **My Device**, and then press the **OK/Menu** key.
2. Select **Available**, and then press the **OK/Menu** key.

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9. Troubleshooting

Phenomena	Analysis	Solution
The radio cannot be turned on.	The battery may have run out.	Recharge the battery.
The keys do not work.	The keys may fail to function temporarily.	Restart the radio.
	The keys may be damaged.	Contact your dealer or Hytera technicians for maintenance.
The LED indicator is abnormal.	The indication may be abnormal.	Restart the radio.
	The LED indicator may be damaged.	Contact your dealer or Hytera technicians for maintenance.
The LCD does not display any information.	The LCD may fail to function temporarily.	Restart the radio.
	The screen may be damaged.	Contact your dealer or Hytera technicians for maintenance.
During receiving, the voice is weak, discontinuous, or totally inactive.	The signal may be weak.	Make sure that the radio is within the signal coverage.
	The volume may be low.	Increase the volume.
	The speaker may be blocked or damaged.	Clean the surface of the speaker.
The battery fails to be charged.	The power adapter plug may be inserted into the socket improperly.	Reinsert the power adapter to the socket.
	The USB Type-C cable may be poorly connected.	Reconnect the USB Type-C cable.

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.

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10. Care and Cleaning

To guarantee optimum performance as well as a long service life of the product, follow the tips below.

10.1 Product Care

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

10.2 Product Cleaning

CAUTION

Turn off the product before cleaning.

- Clean up the dust and fine particles on the product surface 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 that the product is completely dry before use.

11. Optional Accessories

CAUTION

Use the accessories approved by Hytera only. Otherwise, we will not be liable for any loss or damage arising out of the use of unauthorized accessories.

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

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12. Abbreviations

Abbreviation	Full Name
IATA	International Air Transport Association
LED	Liquid-Crystal Display
LED	Light-Emitting Diode
MAC	Media Access Control
PTT	Push-to-Talk
TK	Top Key

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