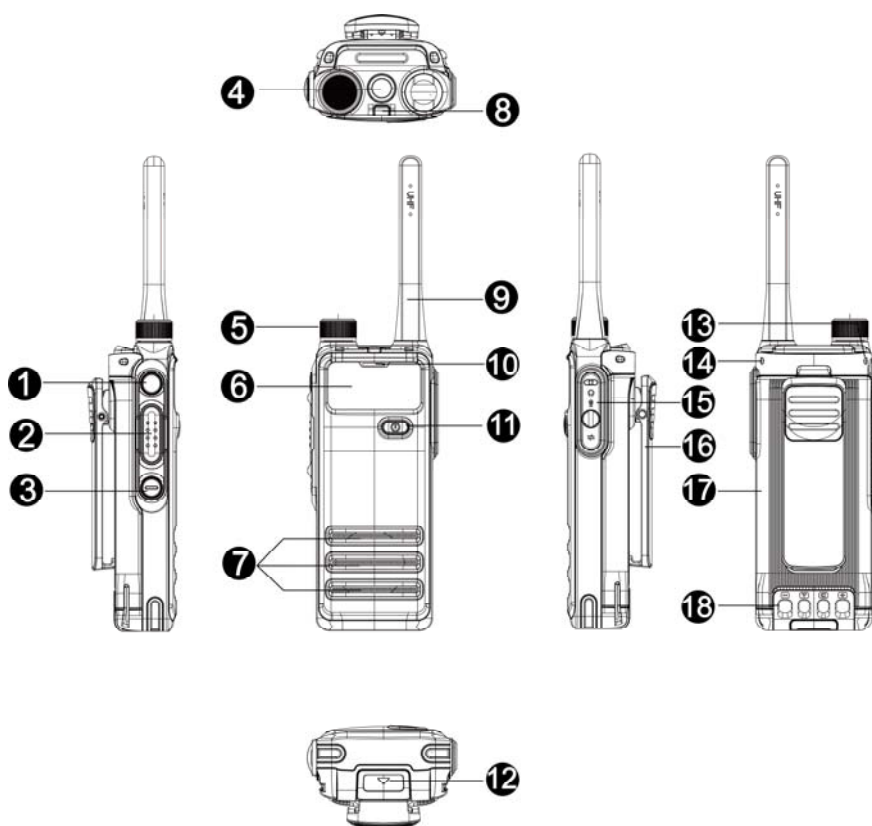


1. Product Overview

1.1 Product Layout



No.	Part Name	No.	Part Name
1	Side Key 1 (SK1)	10	Microphone
2	Push-to-Talk (PTT) Key	11	On-Off Key
3	Side Key 2 (SK2)	12	Battery Latch
4	Top Key (TK)	13	Strap Hole 1
5	Smart Knob	14	Strap Hole 2
6	OLED Display	15	Accessory Interface
7	Speaker	16	Belt Clip
8	LED Indicator	17	Battery
9	Antenna	18	Charging Piece

1.2 Programmable Keys

For enhanced convenience, you can request your dealer to program **TK**, **SK1**, and **SK2** as shortcuts to radio features. For details, consult your dealer.

2. Basic Operations

2.1 Charging the Battery



- Use the approved charger to charge the battery.
- 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 International Air Transport Association (IATA).

Before initial use, charge the battery. You can charge either the standalone battery or the radio with battery attached. It is recommended that the radio remain powered off during charging.

The LED indicator on the charger shows the charging status. For details, see the following table.

LED Indicator	Charging Status
Glows red	The battery is being charged.
Glows orange	The battery is charged to 90% or above.
Glows green	The battery is fully charged.
Flashes red slowly	No battery is placed on the charger.
Flashes red rapidly	The battery fails to be charged.

2.2 Turning the Radio On or Off

To turn the radio on or off, press and hold

2.3 Adjusting the Volume

To increase or decrease the volume, rotate the **Smart** knob clockwise or counter-clockwise.

2.4 Selecting the Contact or Channel

To select the contact or channel, press and rotate the **Smart** knob. If you do not rotate the knob within 5s or if you press it again within 5s, you can rotate it to adjust the volume.

2.5 Switching the Operation Mode

The radio can operate in conventional mode, or trunking mode if enabled by your dealer.

- Manual Switch

- Press the preprogrammed **Operation Mode Switch** key.
- If the Zone/Subgroup Switch Mode feature is enabled, you can switch the operation mode by switching the contact through the menu or the **Smart** knob.

- Auto Switch

- The Mode Automatic Switch feature allows the radio to automatically switch the operation mode, so as to guarantee the normal communication of the radios in no-signal coverage areas or when the system fails.

Press the preprogrammed **Mode Auto Switch** key to enable this feature.

2.5.1 Conventional Mode

In conventional mode, a zone is a group of channels within the same operational area. The radio receives and transmits data and voice on the selected channel.

2.5.1.1 Selecting a Zone

To select a zone, press the preprogrammed **Zone Up** or **Zone Down** key.

2.5.1.2 Selecting a Channel

Before selecting a channel, make sure that the current zone contains the channel.

To select a channel, do one of the following:

- Press and rotate the **Smart** knob.
- Press the preprogrammed **Channel Up** or **Channel Down** key.
- Press the preprogrammed **Preset Channel** key.

NOTE

If the Voice Notify feature is enabled, the radio automatically announces the current channel upon power-on and channel change.

2.5.2 Trunking Mode

In trunking mode, the radio automatically hunts for available base stations (BS). During scanning, the LED indicator flashes orange. After registration, the radio can receive and transmit voice and data.

2.5.2.1 Selecting a Group or Private Contact

To select a group or private contact, do either of the following:

- Press and rotate the **Smart** knob.
- Press the preprogrammed **Group/Private Up** or **Group/Private Down** key.

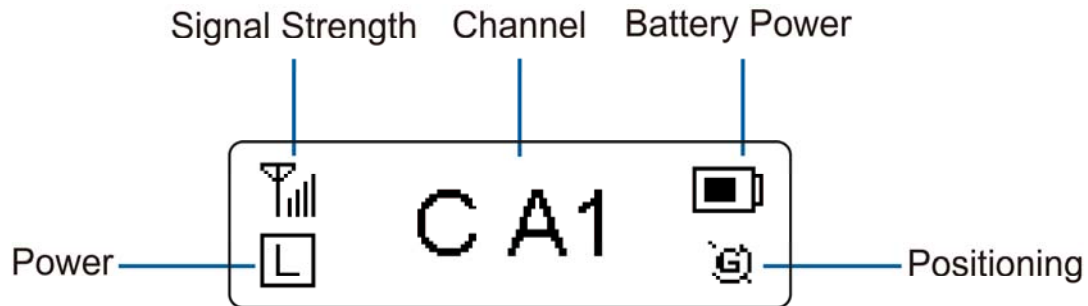
2.5.2.2 Selecting a Subgroup

A subgroup consists of multiple groups or private contacts.

To select a subgroup, press the preprogrammed **Subgroup Up** or **Subgroup Down** key.

3. Status Indications

3.1 LCD Icons



3.2 LED Indications

LED Indicator	Radio Status
Flashes green	The radio is being turned on.
Flashes green slowly	The radio is standby in trunking mode.
Glow green	The radio is receiving.
Glow red	The radio is transmitting.
Flashes red	The radio is establishing a call in trunking mode. (This indication is applicable only to the calling radio.)
Flashes orange slowly	- Conventional mode: The radio is scanning or roaming. - Trunking mode: The radio is hunting.
Flashes orange rapidly	- Conventional mode: The radio is operating in Emergency mode. - Trunking mode: The radio is establishing a Full Off Air Call Set-up (FOACSU) private call. (This indication is applicable only to the called radio.)
Glow orange	Call hang time: No voice is being transmitted or received during a call. Within such a period, you can press and hold the PTT key and speak.
Flashes blue every 3s	The BT feature is enabled, but no BT device is connected.
Flashes blue every 1.5s	A BT device is connected.
Flashes blue every 0.1s	The BT feature is being disabled.

4. Call Services

When you are speaking during a call, keep the microphone about 2.5 cm to 5 cm away from your mouth. This ensures optimal voice quality on the receiving radio.

NOTE

In trunking mode, if the radio is not registered or attached, or an empty group is selected, you cannot initiate a call.

4.1 Call on Digital Channel

You can initiate or receive the following types of calls on a digital channel:

- Group call: a call from an individual user in a group to all the other members in the group.
- Private call: a call from an individual user to another individual user.

4.1.1 Initiating a Group Call

4.1.1.1 Through Preset Contact

Press and rotate the **Smart** knob to select the digital channel or group contact, and then press and hold the **PTT** key to initiate a group call.

Through One Touch Call

With the One Touch Call feature enabled, press the preprogrammed **One Touch Call** key to initiate a group call.

NOTE

In conventional mode, you must press the **PTT** key after pressing the preprogrammed **One Touch Call** key.

4.1.2 Receiving a Group Call

4.1.2.1 Conventional Mode

You can receive a group call without any operation.

4.1.2.2 Trunking Mode

You can receive a group call without any operation.

4.1.3 Ending a Group Call

4.1.3.1 Conventional Mode

In conventional mode, a group call ends when the call hang time expires.

4.1.3.2 Trunking Mode

In trunking mode, a group call ends in any of the following cases:

- The calling party hangs up.
- The call duration exceeds the preset time.
- The BS signal is lost.
- A pre-emptive call or an emergency call occupies the channel.
- The calling party changes the contact with the Clear Down feature enabled.

4.1.4 Initiating a Private Call

4.1.4.1 Through Preset Contact

Press and rotate the **Smart** knob to select the digital channel or private contact, and then press and hold the **PTT** key to initiate a group call.

4.1.4.2 Through One Touch Call

With the One Touch Call feature enabled, press the preprogrammed **One Touch Call** key to initiate a private call.



NOTE

In conventional mode, you must press the **PTT** key after pressing the preprogrammed **One Touch Call** key.

4.1.5 Receiving a Private Call

4.1.5.1 Conventional Mode

You can receive a private call without any operation.

4.1.5.2 Trunking Mode

The operations vary with the setup mode of the private call.

- FOACSU

When receiving a FOACSU private call, the radio rings and vibrates. Press the PTT key within the preset time to answer the call.

- Off Air Call Set-Up (OACSU)

The call is established automatically.

4.1.6 Ending a Private Call

4.1.6.1 Conventional Mode

In conventional mode, a private call ends when the call hang time expires.

4.1.6.2 Trunking Mode

In trunking mode, a private call ends in any of the following cases:

- The calling or called party hangs up.
- The call duration exceeds the preset time.
- The BS signal is lost.
- A pre-emptive call or an emergency call occupies the channel.
- The calling or called party changes the contact with the Clear Down feature enabled.

4.2 Call on Analog Channel

In conventional mode, you can initiate or receive a call on an analog channel with or without signaling.

Call Without Signaling

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

To initiate such a call, press and rotate the **Smart** knob to select the channel, and then press and hold the **PTT** key.

Call with Signaling

On an analog channel with signaling, you can initiate a call to a specific contact on the channel.

To initiate such a call, press the preprogrammed **Contact** key, and then press and hold the **PTT** key or the preprogrammed **One Touch Call** key.

4.3 Emergency Call

The Emergency feature allows you to seek help from your companion or the control center in case of emergency.

You can initiate an emergency call with the highest priority even when your radio is transmitting or receiving.

This feature is configured and enabled by your dealer.

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If you have any suggestions or would like to receive more information, please visit our website at:

<http://www.hytera.com>.

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.

RF Energy Exposure Awareness and Control Information and Operational Instructions for Occupational Use

NOTICE: 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 the occupational limits in FCC and International standards. This radio device is NOT authorized for general population consumer use.

This radio uses electromagnetic energy in the radio frequency (RF) spectrum to provide communications between two or more users over a distance. It uses radio frequency (RF) energy or radio waves to send and receive calls. RF energy is one form of electromagnetic energy. Other forms include, but are not limited to, sunlight and x-rays. RF energy, however, should not be confused with these other forms of electromagnetic energy, which when used improperly, can cause biological damage. Very high levels of x-rays, for example, can damage tissues and genetic material.

Experts in science, engineering, medicine, health, and industry work with organizations to develop standards for safe exposure to RF energy. These standards provide recommended levels of RF exposure for both workers and the general public. These recommended RF exposure levels include substantial margins of protection.

All Hytera radios are designed, manufactured, and tested to ensure they meet government-established RF exposure levels.

In addition, manufacturers also recommend specific operating instructions to users of radios. These instructions are important because they inform users about RF energy exposure and provide simple procedures on how to control it.

Please refer to the following websites for more information on what RF energy exposure is and how to control your exposure to assure compliance with established RF exposure

limits:

<http://www.fcc.gov/oet/rfsafety/rf-faqs.html>

Compliance with RF Exposure Standards

Hytera's 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) key. To receive calls, release the PTT key. 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 a Hytera-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 optional accessories of the product.

ISED 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 Innovation, Science and Economic Development Canada Compliance 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

L'exposition aux champs rf de conformité et de contrôle d'orientations et instructions

Pour contrôler l'exposition et s'assurer de la conformité avec les limites d'exposition professionnelle / environnement contrôlé, toujours respecter les procédures suivantes.

Lignes directrices:

Ne pas enlever l'étiquette de l'appareil d'exposition aux radiofréquences.

Sensibilisation des utilisateurs instructions devraient accompagner dispositif lorsque transférés à d'autres utilisateurs.

Ne pas utiliser cet appareil si les exigences opérationnelles décrites ci - après ne sont pas remplies.

Les instructions de fonctionnement:

Transmettre non plus que le facteur d'utilisation nominal de 50% du temps.à transmettre (parler), pousse le pousse à parler (ptt). Pour recevoir des appels, les ptt.50% du temps de transmission, ou moins, est important parce que la radio génère de l'énergie rf seulement lors de la transmission des (en termes de mesure de la conformité aux normes).

Le groupe de la radio continue d'au moins 2,5 cm de la surface.garde la radio à la bonne distance est important, car l'exposition aux champs rf diminue

avec la distance de l'antenne.l'antenne doit se tenir loin du visage et des yeux.

Quand portés sur le corps, toujours place de la radio dans un étui, hytera approuvé titulaire, ou un harnais ou par l'utilisation de la vidéo pour ce produit.utilisation des accessoires non approuvés peuvent entraîner des fac qui dépassent les niveaux d'exposition professionnelle et environnementale contrôlée des limites d'exposition aux rf.

Non approuvé des antennes, les piles et les accessoires causes la radio à dépasser les lignes directrices sur l'exposition aux radiofréquences de fac.

Communiquez avec votre distributeur local pour les accessoires facultatifs du produit.

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: 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.