



QUICK REFERENCE GUIDE

HP78X Digital Portable Radio



is the trademark or registered trademark of Hytera Communications Corporation Limited.

© 2020 Hytera Communications Corporation Limited. All Rights Reserved.

Address: Hytera Tower, Hi - Tech Industrial Park North, 9108# Beihuan Road, Nanshan District, Shenzhen, 518057 China

Postcode: 518057

[http:// www.hytera.com](http://www.hytera.com)

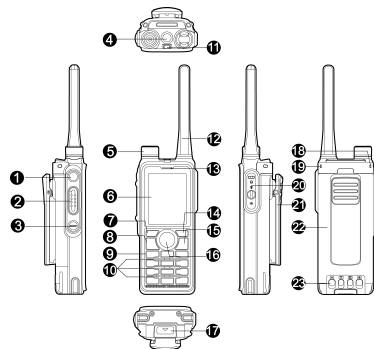
171128254 06073207



5202010062228A

Product Overview

Product Layout



No.	Part Name	No.	Part Name
1	Side Key 1 (SK1)	13	Microphone
2	Push-to-Talk (PTT) Key	14	Back/Subgroup Key
3	Side Key 2 (SK2)	15	On-Off/P2/End Key
4	Top Key (TK)	16	Navigation Keys
5	Smart Knob	17	Battery Latch
6	LCD Display	18	Strap Hole 1
7	OK/Menu Key	19	Strap Hole 2

No.	Part Name	No.	Part Name
8	P1/Answer Key	20	Accessory Connector
9	Numeric Keypad	21	Belt Clip
10	Speaker	22	Battery
11	LED Indicator	23	Charging Piece
12	Antenna	/	/

Programmable Keys

For enhanced convenience, you can request your dealer to program the following keys as shortcuts to radio features: **TK**, **SK1**, **SK2**, **P1/Answer** key, **P2/End** key, and **Navigation** key. For details, consult your dealer.

Basic Operations

Charging the Battery



CAUTION

- 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 the International Air Transport Association (IATA).

Before initial use, charge either the battery alone or the battery that is attached to the radio. It is recommended that

the radio remain powered off during charging. The LED indicator on the charger shows the charging status, as described in 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 rapidly	The battery fails to be charged.
Flashes red slowly	No battery is placed on the charger.

Turning On or Off the Radio

To turn on or off the radio, press and hold the **On-Off/P2/End** key.

Adjusting the Volume

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

Selecting the Contact or Channel

To select the contact or channel, on the home screen, press the **Smart** knob, and then rotate the knob within 5s.



NOTE

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

Locking or Unlocking the Keypad

- **Auto Lock**
To allow the keypad to be locked automatically, go to **Menu > Settings > Basic Settings > Keypad Lock**, and then enable **AutoLock**.

- Manual Lock or Unlock
 - » Press the preprogrammed **Keypad Lock** key.
 - » On the home screen, press the **OK/Menu** key, and then press .

Using the Keypad

You can use the keypad to enter contact aliases and IDs, or edit messages.

- To switch the input method between alphabetic mode and numeric mode, press .
- To enter special characters, press  in alphabetic mode.
- To enter a space, press  in alphabetic mode.

Switching the Operation Mode

The radio can operate in conventional mode, or digital/analog trunking mode (enabled by your dealer).

To switch the operation mode, do either of the following:

- Go to **Menu > Mode**, and then select the mode.
- Press the preprogrammed **Operation Mode Switch** key.

Conventional Mode

Selecting a Zone

Go to **Menu > Zone**, press the **Navigation** key up or down to select the zone, and then press the **OK/Menu** key.

Selecting a Channel

Through Smart Knob

On the home screen, press the **Smart** knob, and then rotate the knob within 5s.

Through Menu

1. Go to **Menu > Zone**.
2. Press the **Navigation** key up or down to select the zone.
3. Press the **Navigation** key up or down to select the channel.

Trunking Mode

Selecting a Group or Private Contact

Through Smart Knob

On the home screen, press the **Smart** knob, and then rotate the knob within 5s.

Through Menu

1. On the home screen, press the **Back/Subgroup** key, or go to **Menu > Subgroup**.
2. Press the **Navigation** key up or down to select the subgroup.
3. Press the **Navigation** key up or down to select the group or private contact.

Selecting a Subgroup

1. On the home screen, press the **Back/Subgroup** key, or go to **Menu > Subgroup**.
2. Press the **Navigation** key up or down to select the subgroup.
3. Press the **OK/Menu** key.

Status Indications

LCD Icons

Icon	Radio Status
	The fuller the battery bar is, the stronger the battery power remains.
	The battery power is low.
	The battery power runs out. Recharge or replace the battery.
	The radio detects no signal.
	The number of bars indicates the signal strength.
	The radio operates in low power mode.
	The radio operates in high power mode.
	The keypad is locked.
	An accessory is connected.
	The Mode Automatic Switch feature is enabled.
	The radio is scanning or hunting.
	The Voice Operated Transmit (VOX) feature is enabled.
	The radio operates in silent mode.
	The radio operates in profile 1.

Icon	Radio Status
	The radio operates in profile 2.
	The radio is operating in emergency mode.
	There is/are missed call(s).
	There is/are new/unread message(s).
	The inbox is full.

For details on other LCD icons, refer to the User Manual.

LED Indications

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.

Indicator	Radio Status
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 to 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.

Call Services

Call on Digital Channel

Through Smart Knob

- On the home screen, press the **Smart** knob.
- Rotate the **Smart** knob within 5s to select the digital channel or contact.
- Press and hold the **PTT** key.

Through Menu

- Go to **Menu > Contact** or **Zone/Subgroup**.
- Select the contact.
- Press and hold the **PTT** key.

Call on Analog Channel

Call Without Signaling

- On the home screen, press the **Smart** knob.
- Rotate the **Smart** knob within 5s to select the analog channel.
- Press and hold the **PTT** key.

Call with Signaling

- Go to **Menu > Contact > Contact/Favorite**, or press the preprogrammed **Contact List** key.
- Select the contact.
- Press and hold the **PTT** key, or press the preprogrammed **One Touch Call/Menu** key.

Emergency Call

The Emergency feature is configured and enabled by your dealer. For details, refer to the User Manual.

For details on more features and operations, please visit our website at: <http://www.hytera.com>, or scan the QR code to download the User Manual.



FCC/ISED Statement

This device complies with part 15 of the FCC/ISED 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.

Ce dispositif est conforme à la partie 15 des règles FCC/ISED. L'opération est soumise aux deux conditions suivantes :

(1) Cet appareil ne peut pas causer d'interférences nocives et (2) cet appareil doit accepter toute interférence reçue, y compris toute interférence susceptible de provoquer un fonctionnement indésirable.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. Toute modification ou modification non expressément approuvée par la partie responsable de la conformité pourrait annuler le pouvoir de l'utilisateur d'exploiter l'équipement.

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/ISED 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.

Cet équipement a été testé et s'est avéré conforme aux limites d'un appareil numérique de classe B, conformément à la partie 15 des règles de la FCC/ISED. Ces limites sont conçues pour fournir une protection raisonnable contre les interférences nocives dans une installation résidentielle. Cet équipement génère, utilise et peut émettre de l'énergie par radiofréquence et, s'il n'est pas installé et utilisé conformément aux instructions, peut causer des interférences nocives aux communications radio. Toutefois, il n'y a aucune garantie que des interférences ne se produiront pas dans une installation particulière. Si cet équipement cause des interférences nuisibles à la réception de la radio ou de la télévision, qui peuvent être déterminées en éteignant et en allumant l'équipement, l'utilisateur est encouragé à essayer de corriger l'interférence par une ou plusieurs des mesures suivantes :

- Réorienter ou déplacer l'antenne de réception.
- Augmenter la séparation entre l'équipement et le récepteur.
- Connectez l'équipement dans une prise sur un circuit différent de celui auquel le récepteur est connecté.
- Consultez le concessionnaire ou un technicien expérimenté en radio/télévision pour obtenir de l'aide.

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.

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.

Les opérations doivent satisfaire aux deux conditions suivantes: Ce dispositif peut ne pas causer d 'interférences nuisibles.

Ce dispositif doit accepter toute interférence reçue, Y compris les interférences qui peuvent provoquer des accidents.Operation

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.

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

SAR tests are conducted using standard operating positions accepted by the FCC/ISED with the device transmitting at its highest certified power level in all tested frequency bands, although the SAR is determined at the highest certified power level, the actual SAR level of the device while operating can be well below the maximum value.

Before a new model device is available for sale to the public, it must be tested and certified to the FCC/ISED that it does not exceed the exposure limit established by the FCC/ISED. Tests for each device are performed in positions and locations (worn on the body) as required by the FCC/ISED.

For face-up, 5mm was used for test, this equipment should be installed and operated with minimum distance 25mm.

For body worn operation, this model phone has been tested and meets the FCC/ISED RF exposure guidelines when used with an accessory designed for this product or when used with an accessory that contains no metal and that positions the handset a minimum of 0mm from the body.

Non-compliance with the above restrictions may result in violation of RF exposure guidelines.

Les essais SAR sont effectués à l'aide de positions d'exploitation normalisées acceptées par la FCC/ISED avec l'appareil transmettant à son niveau de puissance certifié le plus élevé dans toutes les bandes de fréquences testées, bien que le SAR soit déterminé au niveau de puissance certifié le plus élevé, le niveau réel de R-S de l'appareil pendant son fonctionnement peut être bien inférieur à la valeur maximale.

Avant qu'un nouveau dispositif de modèle ne soit disponible à la vente au public, il doit être testé et certifié à la FCC/ISED qu'il ne dépasse pas la limite d'exposition établie par la FCC/ISED, les tests pour chaque appareil sont effectués dans des positions et des emplacements (portés sur le corps) comme l'exige la FCC/ISED.

Pour le face-vers le haut, 5mm a été utilisé pour l'essai, cet équipement doit être installé et actionné avec une distance minimale de 25mm.

Pour le fonctionnement du corps usé, ce téléphone modèle a été testé et répond aux directives d'exposition RF FCC/ISED lorsqu'il est utilisé avec un accessoire désigné pour ce produit ou lorsqu'il est utilisé avec un accessoire qui ne contient pas de métal et qui positionne le combiné d'un minimum de 0mm du corps.

Le non-respect des restrictions ci-dessus peut entraîner une violation des lignes directrices sur l'exposition aux RF.