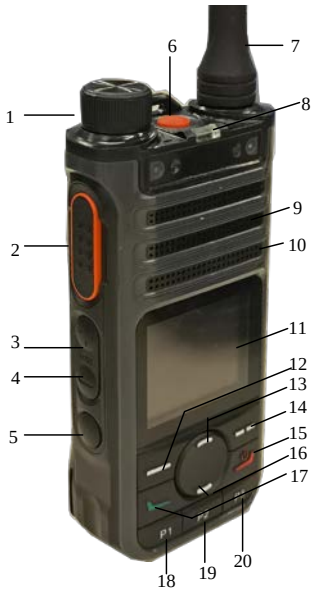
HP31X/HP36X/HP21X/HP28X Portable Radio

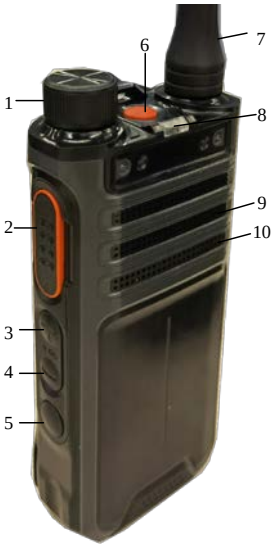
Quick Reference Guide

Hytera Communications Corporation Limited

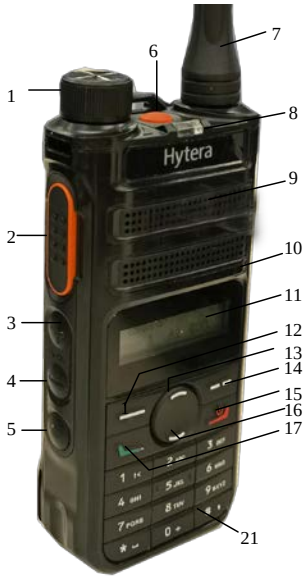
1. Product Layout



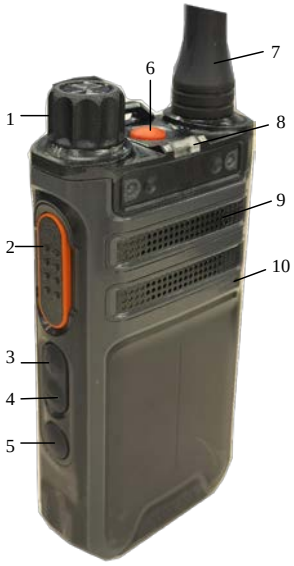
HP36X



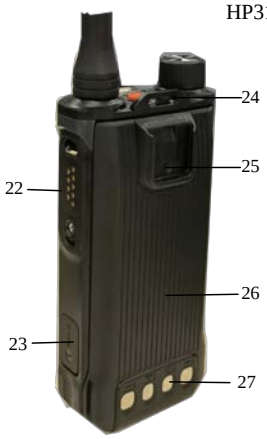
HP31X



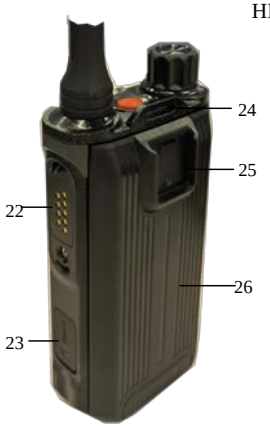
HP28X



HP21X



HP36X/HP31X/HP28X



HP21X

No.	Part Name	No.	Part Name	No.	Part Name
1	Channel Selector Knob	10	Microphone	19	P2 Key*
2	Push-to-Talk (PTT) Key	11	LCD Display	20	P3 Key*
3	Volume UP Key	12	OK/Menu Key	21	Keypad
4	Volume Down Key	13	Up Key	22	Accessory Connector
5	Side Key 3 (SK3)*	14	Back Key	23	USB Type-C Port
6	● HP36X/HP28X: Top Key (TK)* ● HP31X/HP21X: On-Off Key	15	On-Off Key	24	Strap Hole
7	Antenna	16	Down Key	25	Belt Clip
8	LED Indicator	17	Contact Key	26	Battery

No.	Part Name	No.	Part Name	No.	Part Name
9	Speaker	18	P1 Key	27	Charging Contacts

NOTE

- For details about the programmable keys (*), contact your dealer.
- Figures in this guide are only for reference.

2. Basic Operations

2.1 Charging the Battery

⚠ CAUTION

- Read the *Safety Information Booklet* before charging.
- Use the approved charger to charge the battery.
- 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 charger to charge the battery alone or the battery attached to the radio. This method applies only to HP36X, HP31X, and HP28X.

  The LED indicator on the charger shows the charging status. For details, check the label on the bottom of the charger.

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

  The LED indicator on the radio shows the charging status, as described in the following table.

Status	Description
Glows red	The battery is being charged.
Flashes red rapidly	The battery fails to be charged.
Glows green	The battery is fully charged.

2.2 Turning On or Off the Radio

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

2.3 Adjusting the Volume

Press the **Volume UP** key to increase the volume, or **Volume Down** key to decrease the volume.

2.4 Selecting a Zone

- Press the preprogrammed **Zone Up** or **Zone Down** key.
- Go to **Menu** > **Zone** to select a zone. This method applies only to HP36X and HP28X.

2.5 Selecting a Channel

Rotate the **Channel Selector** knob.

2.6 Call Services

To keep the audio quality, keep your mouth 2.5 centimeters to 5 centimeters away from the microphone.

2.6.1 Initiating a Call on Digital Channel

NOTE

This feature is available only for HP36X and HP31X.

- Rotate the **Channel Selector** knob to select the digital channel, and then press and hold the **PTT** key.
- Go to **Menu** > **Contacts/CallLogs** to select a contact, and then press and hold the **PTT** key. This method applies only to HP36X.

2.6.2 Initiating a Call Without Signaling on Analog Channel

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

3. Status Indications

3.1 LED Indicator

Status	Description	Remarks
Flashes green	The radio is being turned on.	/
Glows red	The radio is transmitting.	/
Glows green	The radio is receiving.	/
Flashes red slowly once every 1 minute	The battery power is low.	/
Flashes orange slowly	The radio is scanning.	/
Glows orange	The call is on hold.	/
Glows green for 2 seconds	The battery power is high.	Available only for HP31X and HP21X.
Glows orange for 2 seconds	The battery power is medium.	
Glows red for 2 seconds	The battery power is low.	

3.2 LCD Icons

This feature is available only for HP36X and HP28X.

Icon	Description
	More bars indicate more remaining battery power.
	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 radio is scanning.

Icon	Description
DM	Direct Mode: The radio transmits and receives directly.
RM	Repeater Mode: The radio transmits and receives through a repeater.
Ⓥ	The VOX feature is enabled.
	The speaker is turned on.
	The radio operates in silent mode.
	An accessory is connected.

FCC 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 cau undesired operation.

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

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:

—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.

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

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

For body worn operation, this device has been tested and meets the FCC/ISEDC RF exposure guidelines when used with an accessory designated for this product or when used with an accessory that Contains no metal. 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/ISEDC 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/ISEDC qu'il ne dépasse pas la limite d'exposition établie par la FCC/ISEDC, les tests pour chaque appareil sont effectués dans des positions et des emplacements (portés sur le corps) comme l'exige la FCC/ ISEDC. Pour le face-vers le haut,25mm 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 dispositif a été testé et répond aux directives d'exposition RF FCC/ISEDC 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.

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

This device complies with Innovation, Science and Economic Development Canada licence-exempt RSS standard (s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference,in cluding interference that may cause undesired operation of the device.

Le onjunc areil est conforme aux CNR d' l'innovation, la science et le développement économique Canada licables aux areils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'areil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, onj si le brouillage est susceptible d'en compromettre le fonctionnement.

This radio complies with IEEE and ICNIRP exposure limits for occupational/controlled RF exposure environment at operating duty factors of up to 50% and is authorized by the FCC/ISEDC for occupational use only.

Hytera

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