



PNC460 Smart PoC Radio

User Manual

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:

[PNC460 Smart PoC Radio](#)

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Documentation Information

This section describes the conventions of this document and device gestures.

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".
>	Directs you to access a multi-level menu.	In the Port text box, enter "22".
		Go to File > New .

Key Operations

Operation	Description
Press	Press and release quickly.
Long press	Press and hold for the preset duration.
Double press	Press twice continuously and quickly.

Operation	Description
Press and hold	Keep the key pressed.

Main Screen Operations

Operation	Illustration	Description	Example
Tap		Touch an item once with your finger.	Tap  to open the Camera app.
Touch and hold		Touch an item with your finger and maintain contact.	Touch and hold  until it jiggles.
Swipe		Swipe your finger across the screen.	Swipe down from the top edge of any screen to access the notification panel.
Drag		Touch and press an item, and then move it to a new position.	Touch and press  until it jiggles, and then drag it to the proper position.
Pinch		Move two fingers together on the screen.	Pinch a photo to zoom out.
Spread		Move two fingers apart on the screen.	Spread a photo to zoom in.

1. Packing List

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

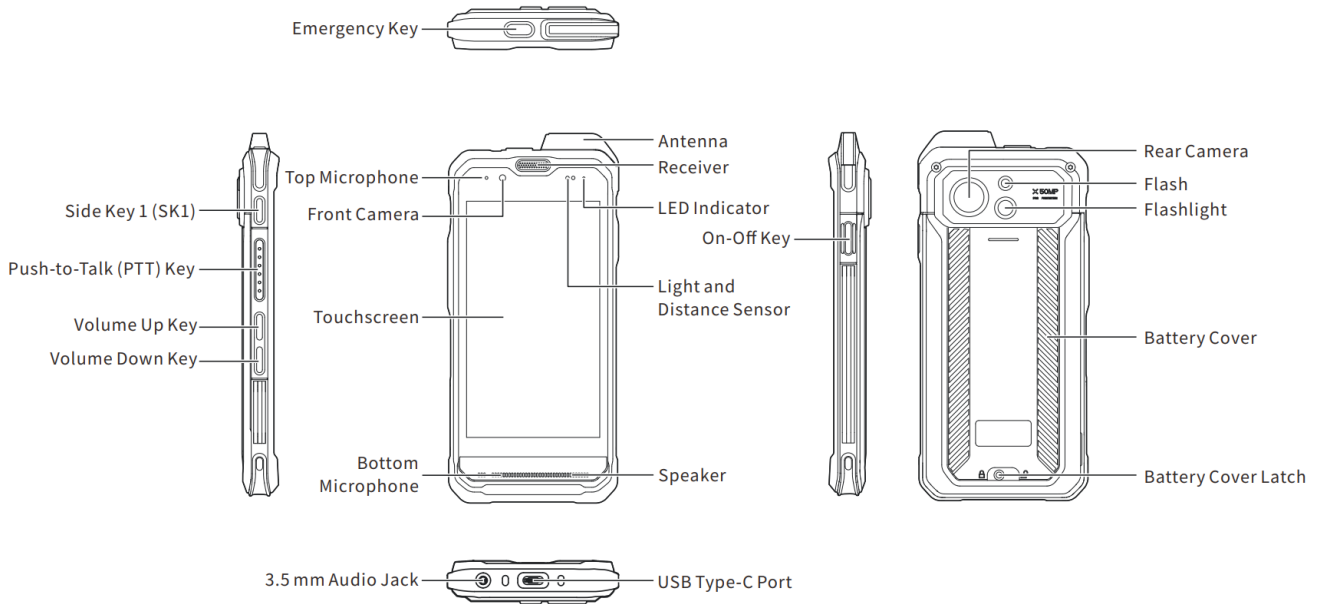
Item	Quantity (PCS)	Item	Quantity (PCS)
PNC460	1	Battery Cover	1
Battery	1	Tempered Glass	1
Power Adapter	1	Documentation Kit	1
USB Type-C Data Cable	1	/	/

NOTE

- Figures in this manual are only for reference.
 - Check the label inside the battery slot to ensure that the purchased product is correct.
-

2. Product Overview

2.1 Product Layout



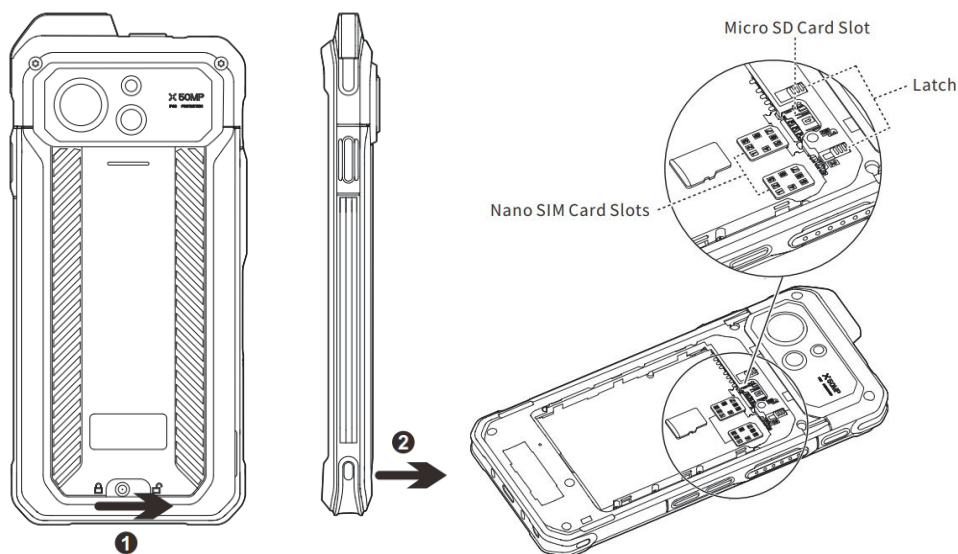
2.2 Programmable Key

To assign device features to the **SK1** as shortcuts, go to  > **Programmable keys**.

3. Before Use

3.1 Install the Cards

1. Slide the battery cover latch to the right.
2. Insert a fingernail into the slot at the lower part of the battery cover, and then pull up the battery cover to remove it.
3. Remove the battery.
4. Insert the Nano SIM cards and the Micro SD card into the corresponding slots with the metal contacts facing down.



NOTE

To remove the Nano SIM card, slide the latch to eject the corresponding card.

3.2 Attach the Battery

CAUTION

- Use the approved battery to avoid the risk of explosion.
- Dispose of the used battery according to "Precautions for Disposal" in the *Safety Information Booklet*.
- Turn off the device before replacing the battery to avoid data loss.

1. Slide the battery cover latch to the right.
2. Insert a fingernail into the slot at the lower part of the battery cover, and then pull up the battery cover to remove it.
3. Align the contacts on the battery with those on the battery slot, and then slide the battery into the slot.

4. Put the battery cover back in place.
5. Slide the battery cover latch to the left.

3.3 Charge 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).
-

Connect the device to the power adapter, power bank, or PC through the USB Type-C data cable.

During charging, check the charging status through the battery icon or percentage on the touchscreen.

4. Basic Operations

4.1 Turn On the Device


Long press the **On-Off** key until the startup screen appears.

4.2 Turn Off the Device

- Method 1

Long press the **On-Off** key, and then tap **Power off**.

- Method 2


- Swipe down from the status bar.
- Swipe down from the control center to unfold it.
- Tap .
- Tap **Power off**.

4.3 Restart the Device

- Method 1

Long press the **On-Off** key, and then tap **Restart**.

- Method 2

- Swipe down from the status bar.
- Swipe down from the control center to unfold it.
- Tap .
- Tap **Restart**.





NOTE

If the device fails to work and be turned off, you can long press the **On-Off** key for more than 10s to forcibly restart the device.


4.4 Adjust the Volume Through the Volume Key

- Media Volume

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

- Ring and Notification Volume
 - a. Press the **Volume Up** key or **Volume Down** key.
 - b. Do any of the following:
 - To vibrate the ring and notification, tap the upper icon on the volume bar, and then tap .
 - To mute the ring and notification, tap the upper icon on the volume bar, and then tap .
 - To increase or decrease the ring and notification volume, tap the lower  icon on the volume bar, and then drag the slider corresponding with **Ring & notification volume**.
- Call and Alarm Volume
 - a. Press the **Volume Up** key or **Volume Down** key.
 - b. Tap the lower  icon on the volume bar.
 - c. To increase or decrease the call or alarm volume, drag the slider corresponding with **Call volume** or **Alarm volume**.

Through the Settings Interface


1. Tap .
2. Tap **Sound**.
3. Drag the slider corresponding with **Media volume**, **Call volume**, **Ring & notification volume**, and **Alarm volume**.

4.5 Use the SIM Cards



The device supports Dual SIM Dual Standby, but cannot access voice services or data services of the two SIM cards simultaneously.

4.5.1 Set the SIM Card Preference

You can set a SIM card as the default one for the Internet, calls, and messages.

1. Tap .
2. Go to **Network & internet > Mobile network and SIM card**.
3. Select one SIM card.
4. Do any of the following.
 - Tap **Data preference**, and then select the SIM card, which you want to use to access the network.
 - Tap **Calls preference**, and then select the SIM card, which you want to use to make a call.
 - Tap **SMS preference**, and then select the SIM card, which you want to use to send a message.

4.5.2 Enable or Disable the SIM Card



1. Tap .
2. Go to **Network & internet** > **Mobile network and SIM card**.
3. Select one SIM card.
4. Tap  following **Use SIM**.

NOTE

To custom the name and color of the SIM card, tap  in the upper right corner.

4.5.3 Auto-Switch the Network

With Smart Switch Network Card enabled, the device can automatically switch to the SIM card with stronger network signals.




1. Tap .
2. Tap **Network & internet**.
3. Tap  following **Smart switch network card**.

4.6 Manage the Battery

You can check the battery usage, enable Battery Saver to extend the battery life, and set whether to display the battery percentage in the status bar.

4.6.1 Enable the Battery Saver

Battery Saver can reduce power consumption. If turned on, Battery Saver switches the device into dark mode, decreases the sleep time, and limits background activities.

- Manually enable Battery Saver
 - In the control center, tap **Battery Saver**.
 - Tap , go to **Battery** > **Battery Saver**, and then tap  following **Use Battery Saver**.
- Automatically enable Battery Saver
 - a. Tap , go to **Battery** > **Battery Saver**, and then tap **Set a schedule**.
 - b. Tap **Based on percentage**.
 - c. Drag the slider to a percentage where you want the device to turn on Battery Saver automatically.
Once the battery reaches the preset value, the Battery Saver will be automatically enabled.

- Automatically disable Battery Saver



Tap  following **Turn off when charged**.

When the battery is over 90%, Battery Saver will be automatically disabled.

NOTE

During charging, Battery Saver cannot be enabled.

4.6.2 Set the Remaining Battery Display

1. Tap .
2. Tap **Battery**.
3. Tap  following **Battery percentage**.

The remaining battery percentage will be displayed in the status bar.

4.7 Manage the Storage

You can check the storage usage and free up space for better use.



To extend the storage space, install a Micro SD card in the device.

1. Tap .
2. Tap **Storage**.
3. Do either of the following:
 - To manually free up the storage space, tap **Free up space**.
 - To automatically free up the storage space regularly, tap  following **Storage manager**.

4.8 Manage the Notification

4.8.1 Turn Off the App Notification

You can turn off notifications from an app.

1. Tap .
2. Go to **Notifications > App settings**.
3. Tap  following the app.



NOTE

Notifications from some apps cannot be turned off.



4.8.2 Disable the Notification Dot

You can set no dot to be displayed on the app icon when the app receives notifications.








Notification Dot of an App

1. Tap .
2. Go to **Notifications** > **App settings**.
3. Tap the app.
4. Tap  following **Allow notification dot**.

Notification Dot of All Apps

1. Tap .
2. Tap **Notifications**.
3. Tap  following **Notification dot on app icon**.

4.8.3 Set the App Notification

1. Tap .
2. Tap **Notifications**.
3. In the **Notifications** interface, do any of the followings:
 - To allow some conversations to float on top of other apps, tap **Bubbles**, and then tap  following **Allow apps to show bubbles**.
 - To show notifications on lock screen, tap **Notifications on lock screen**, and then tap **Show conversations, default, and silent**.
 - To hide silent notifications in status bar, tap  following **Hide silent notifications in status bar**.
 - To allow notification alert after the preset time, tap  **Allow notification snoozing**.
 - To set the alert time, in the notification center, tap  to unfold an unread notification, and then tap .
 - To allow the LED indicator to blink when the device receives notifications, tap  following **Blink light**.

4.9 Check the Device Information

1. Tap .
2. Tap **About phone**.

You can view the device name, SIM card status, legal information, International Mobile Equipment Identity (IMEI), model, Android™ 12, and more.

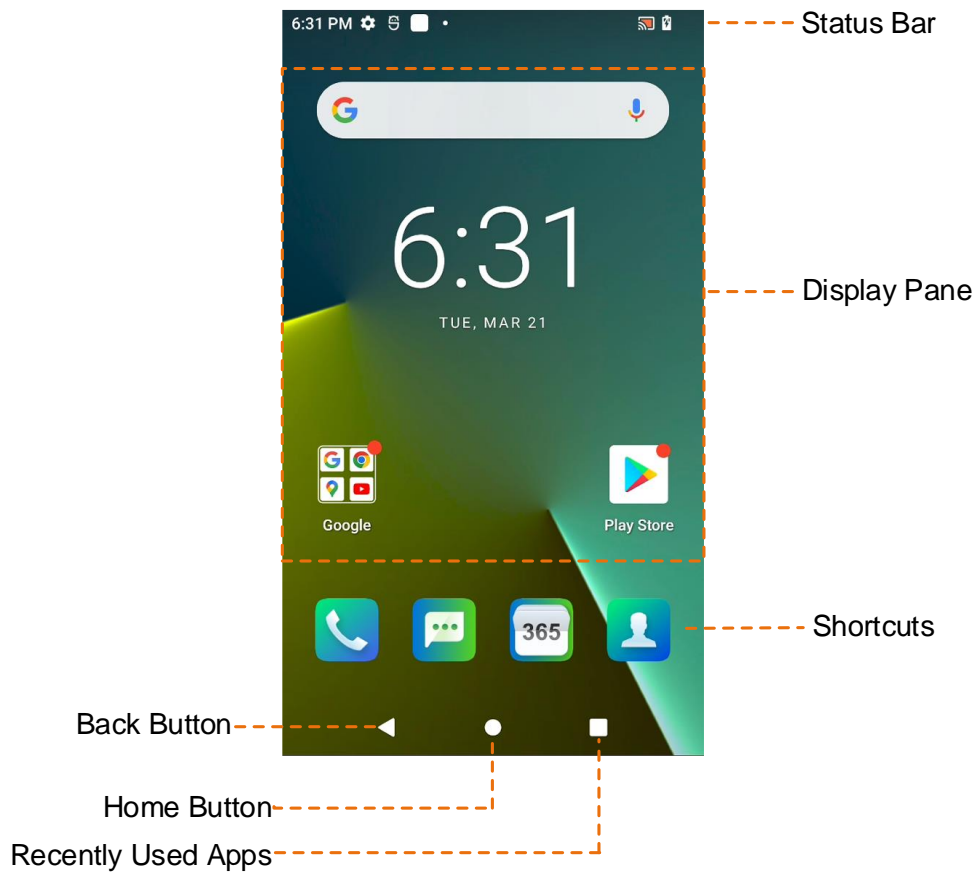
 **NOTE**

Android is the trademark of Google LLC.

4.10 Set the USB Connection Mode with PC







1. Connect the device to the PC through the USB data cable.
2. Swipe down from the top.
3. Tap **Charging this device via USB**.
4. Tap **Tap for more options**.
5. In the **USB Preferences** interface, select one of the following options:
 - File Transfer: allows you to transfer files between the device and the PC.
 - USB tethering: allows you to share the network of the PC.
 - MIDI: allows you to use the device as a musical instrument digital interface (MIDI) input device and play music on the PC.
 - PTP: allows you to transfer pictures to the PC.
 - No data transfer: allows you to only charge the device by the PC.

5. Screen



5.1 Understand the Status Icons

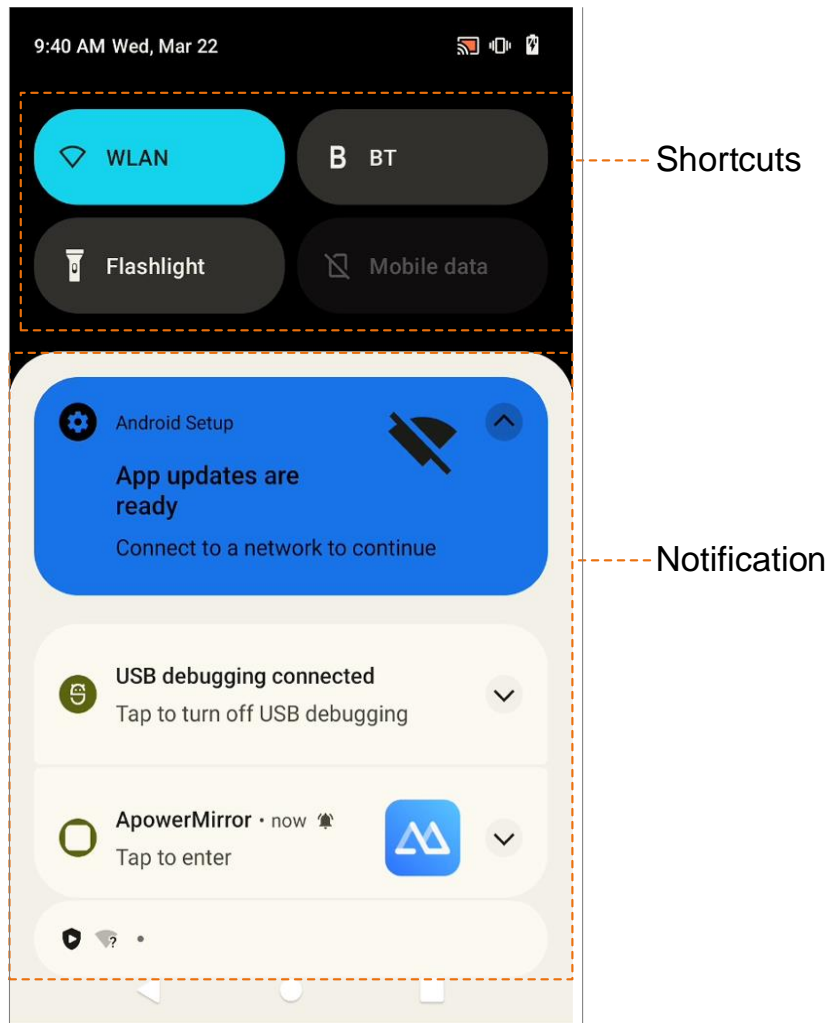
Icon	Description	Icon	Description
	The device is connected to the WLAN.		The device works in Vibration mode.
	The device has registered in the cellular network.		The BT feature is enabled.
	The device has not registered in the cellular network.		An earpiece is connected.
	The WLAN hotspot is enabled.		The Alarm feature is enabled.
	The battery power is full.		The device works in Do Not Disturb mode.
	The battery is being charged.		There is/are (a) new message(s).
	The battery power is low.		There is/are (a) missed call(s).

Icon	Description	Icon	Description
	The Battery Saver mode is enabled.		The device is downloading file(s).
	The device works in Mute mode.		The device is uploading file(s).
	The device works in Airplane mode.		The device has downloaded file(s).

5.2 Understand the Control and Notification Center




The control and notification center allows you to instantly access frequently used features by using shortcut switches, adjust the screen brightness, and view or clear the notifications.

- To access the control center, swipe down from the status bar.
- To view all shortcuts, swipe down from the control center to unfold it.



5.3 Set the Home Screen

1. On the home screen, touch and hold the blank area, and then tap **Home settings**.


2. In the **Home settings** interface, do any of the following:
 - To show the notification dots, tap **Notification dots**, and then tap  following **Notification dot on app icon**.
 - To add app icons to home screen, tap  following **Add app icons to Home screen**.
 - To show Google apps, tap  following **Show Google App**.

5.4 Manage the Widget


The widget allows you to quickly access apps.

- To add a widget, do the following:
 - a. On the home screen, touch and hold the blank area, and then tap **Widgets**.
 - b. In the app list, tap an app.
 - c. Touch and hold a widget, and then drag it to the blank area on the home screen.
- To move the widget, drag it to a new location.
- To remove a widget, drag it to **Remove** at the top.

5.5 Capture the Screen

1. Press the **On-Off** key and the **Volume Down** key simultaneously.
2. (Optional) To view the screenshot, tap .

5.6 Record the Screen

1. Swipe down from the status bar.
2. Swipe down from the control center to unfold it.
3. (Optional) Swipe left to find **Screen record**.
4. Tap **Screen record**.
5. (Optional) Tap  following **Record audio**.
6. Tap **Start**.



5.7 Cast the Screen

1. Swipe down from the status bar.
2. Swipe down from the control center to unfold it.


3. (Optional) Swipe left to find **Screen Cast**.
4. Tap **Screen Cast**.

5.8 Auto-Rotate the Screen

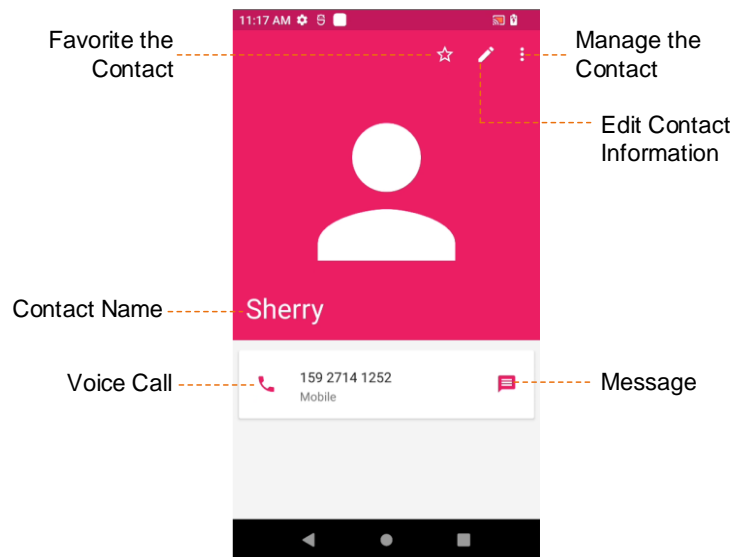
Auto-Rotate Screen allows the device to automatically switch between portrait and landscape orientations when you rotate the device.

- Method 1
 - a. Swipe down from the status bar.
 - b. Swipe down from the control center to unfold it.
 - c. (Optional) Swipe left to find **Auto-rotate**.
 - d. Tap **Auto-rotate**.
- Method 2
 - a. Tap .
 - b. Tap **Display**.
 - c. Tap  following **Auto-rotate screen**.

6. Contacts

You can use the Contacts app  to manage your contacts information, such as phone numbers, e-mails, and addresses.



6.1 Understand the Contact Interface





NOTE

For your convenience, different contacts are shown automatically in different color.

6.2 Add a Contact



1. Tap .
2. In the lower right corner, tap .
3. Set the contact information including name, phone number, and email address.
4. In the upper right corner, tap **SAVE**.

6.3 Search for a Contact





1. Tap .
2. Tap .
3. In the **Search contacts** field, enter the keywords.

The device displays the search results below the search box.

6.4 Share a Contact




1. Tap .
2. Tap and hold the contact.
3. (Optional) Tap other contacts you want to share.
4. In the upper right corner, tap .
5. Select a sharing method.

6.5 Delete a Contact



- Method 1
 - a. Tap .
 - b. Tap the contact.
 - c. Tap .
 - d. Tap **Delete**.
 - e. Tap **DELETE**.
- Method 2
 - a. Tap .
 - b. Touch and hold the contact.
 - c. In the upper right corner, tap .
 - d. Tap **DELETE**.

6.6 Associate Duplicate Contacts

You can associate duplicate contacts into one contact.

1. Tap .
2. Touch and hold  one contact.
3. Select other duplicate contacts.
4. In the upper right corner, tap .


6.7 Set the Contacts or View SIM Contacts

1. Tap .
2. In the upper left corner, tap , and then do any of the following:



- To create a contact label, tap **Create label**.
- To view contacts on or add contacts to the SIM card, tap **SIM contacts**.
- To set your info, accounts, import or export contacts, block numbers, and more, tap **Settings**.

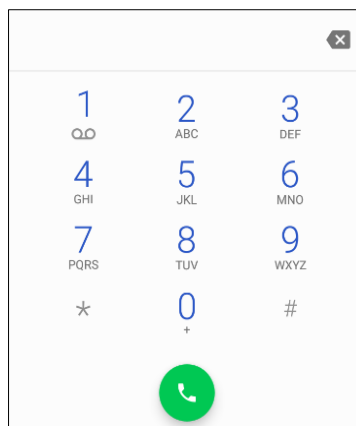
7. Calls


7.1 Make a Call

After the device with a SIM card has been registered with carrier network, you can use the Phone app  to make and receive phone calls or emergency calls






Through Manual Dialing

1. Tap .
2. Tap .




3. On the dialpad, enter the phone number.
4. Tap .





Through the Favorites or Contact List

- Favorites List
 - a. Tap .
 - b. Tap .
 - c. Tap a phone contact.
- Contacts List
 - a. Tap .
 - b. Tap .
 - c. Tap a phone contact.
 - d. Tap .

NOTE

The color of  varies with the contacts.


Through the Call Log

1. Tap .
2. Tap .
3. (Optional) To view missed calls only, do as follows:
 - a. On the right of the upper search box, tap .
 - b. Tap **Call history**.
 - c. Tap , and then tap **Missed calls only**.
4. Tap a phone contact or number.

7.2 Receive or Decline a Call

When a phone call is coming in, tap **ANSWER** to receive it or tap **DECLINE** to decline it.


7.3 View a Missed Call

If there is a missed call, you can see  in the status bar.

Swipe down from the status bar.

You can see the missed call notification.




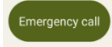

7.4 End a Call

To end a phone call, tap .



7.5 Make an Emergency Call

If the device is within the network coverage of the carrier, you can initiate an emergency phone call even without the SIM card installed.

Do either of the following:

- On the unlocked main screen, go to  > , enter the emergency number, and then tap .
- On the locked main screen, swipe up from the bottom, tap , enter the emergency number, and then tap .

7.6 Set the Call

1. Tap .
2. On the right of the upper search box, tap .






3. Tap **Settings**.

You can set display options, sound and vibration, quick text, speed dial, blocked numbers, and more.



8. Messages

You can use the Messaging app  to send and receive text or multimedia messages.





8.1 Send a Message

1. Tap .
2. Tap .
3. Add the message receiver(s).
 - In the search box, enter the keywords or phone number, and then tap the displayed contact.
For multiple receivers, repeat this step.
 - Tap , check the contact(s), and then tap **SELECT**.
4. Tap the **Send message** field, and then enter the content.
5. (Optional) To add a picture, video, audio, and more, tap .
6. Tap .

8.2 Search for a Message





1. Tap .
2. Tap .
3. Enter the keywords in the **Search messaging** field.

8.3 Delete a Conversation



- Method 1
 - a. Tap .
 - b. Touch and hold the conversation.
 - c. Tap .
 - d. Tap **DELETE**.
- Method 2
 - a. Tap .
 - b. Tap a conversation.
 - c. In the right upper corner, tap .
 - d. Tap **Delete thread**.

- e. Tap **DELETE**.

8.4 Manage the Message

1. Tap .
2. Tap a contact to enter the conversation thread.
3. Touch and hold the message text, and do any of the following:
 - To forward the message, tap .
 - To copy and paste the text message, tap .
 - To delete the message, tap .

8.5 Set the Message

1. Tap .
2. On the right of the search box, tap .
3. Tap **Settings**.




You can set the message tone, notification, and more.

9. Connectivity


9.1 Mobile Network



9.1.1 Enable the Mobile Network




Before accessing the cellular network services, ensure that you have properly installed the SIM card. If the cellular network services are not in use, you can turn it off to decrease data usage and increase battery life.

- Method 1
 - a. Tap .
 - b. Go to **Network & internet > Mobile network and SIM card**.
 - c. Tap  following **Use SIM**.
 - d. Tap  following **Mobile data**.
- Method 2
 - a. Swipe down from the status bar.
 - b. Swipe down from the control center to unfold it.
 - c. (Optional) Swipe left to find **Mobile data**.
 - d. Tap **Mobile data**.

9.1.2 Set the Mobile Network

1. Tap .
2. Go to **Network & internet > Mobile network**.
3. Do any of the following:

If You Want to...	Then...
Enable data roaming	Tap  following Roaming . You can access data services when you are outside the service area of your carrier.
Enable Voice over LTE (VoLTE)	Tap  following VoLTE . The device uses LTE services to improve voice communications.
Select the 2G, 3G, or 4G network	Tap Preferred network type .
Enable WLAN calling	1. Tap WLAN calling .


If You Want to...	Then...
	2. Tap  following Use WLAN calling .
Enable carrier video calling	Tap  following Carrier video calling .
Auto-switch network between dual SIM cards	Tap  following Automatically select network .



9.1.3 Monitor the Data Usage

1. Tap .
2. Go to **Network & internet** > **Mobile network and SIM card** > **App data usage**.

You can see the data usage of every app.

9.1.4 Limit the Data Usage

1. Tap .
2. Go to **Network & internet** > **Mobile network and SIM card** > **Data warning & limit**.
3. Do any of the following:




If You Want to...	Then...
Avoid excessive data usage	<ol style="list-style-type: none"> 1. Tap Mobile data usage cycle. 2. Set the usage cycle reset date. 3. Tap SET.
Enable data warning	Tap  following Set data warning .
Set the threshold for data warning	<ol style="list-style-type: none"> 1. With Data Warning enabled, tap Data warning. 2. Enter the threshold value. 3. Tap SET.
Enable data limit	<ol style="list-style-type: none"> 1. Tap  following Set data limit. 2. Tap OK.
Set the threshold for data limit	<ol style="list-style-type: none"> 1. With Data Limit enabled, tap Data limit. 2. Enter the threshold value.

If You Want to...	Then...
	3. Tap SET .


9.2 WLAN



9.2.1 Connect to the WLAN

With successful WLAN connection, you can visit the Internet or shared media from other devices in the network.

1. Tap .
2. Go to **Network & internet > WLAN**.
3. Tap  following **WLAN**.
4. Select a network from the list.
 - If you select an open network, the device automatically connects to it.
 - If you select a secure network, you need to enter the password before connection.
 - If no network in the list, do the following:
 - i. Tap **Add network**.
 - ii. Enter the network name or tap  to scan the QR code to add the network.

9.2.2 Set the WLAN






1. Tap .
2. Go to **Network & internet > WLAN**.
3. Do any of the following:

If You Want to...	Then...
Automatically connect an available high-quality public network	<ol style="list-style-type: none"> 1. Tap WLAN preferences. 2. Tap  following Turn on WLAN automatically.
Receive a notification when a high-quality public network is available	<ol style="list-style-type: none"> 1. Tap WLAN preferences. 2. Tap  following Notify for public networks.

If You Want to...	Then...
Check saved networks	Tap Saved networks .
Delete saved networks	<ol style="list-style-type: none"> 1. Tap Saved networks. 2. Tap the WLAN. 3. Tap FORGET.


9.2.3 Print Through WLAN









You can connect the device to a printer through the WLAN and print pictures or files. Take picture printing for example.

1. Add a printer.
 - a. Tap .
 - b. Go to **Connected devices > Connection preferences > Printing > Default Print Service**.
 - c. Tap  following **Use print service**.
The device searches for available printers automatically.
 - d. Tap the printer name.
2. Print the picture.
 - a. Tap .
 - b. Tap a picture.
 - c. In the upper right corner, tap .
 - d. Go to **Print >  > All printers...**
 - e. Select a printer.
 - f. Follow the on-screen instructions.

9.3 Hotspot and Tethering

Hotspot and Tethering allows the device to share the mobile network connection with nearby devices.

1. Tap .
2. Go to **Network & internet > Hotspot & tethering**.
3. Do any of the following:



If You Want to Share Mobile Network...	Then...
Through WLAN hotspot	<ol style="list-style-type: none"> 1. Tap WLAN hotspot. 2. Tap  following Use WLAN hotspot. 3. Set the hotspot name, security, and password. <p> NOTE</p> <p>To enable the saved hotspot, you can tap Hotspot in the control center.</p>
Through USB tethering	<ol style="list-style-type: none"> 1. Connect the device to the PC through the USB cable. 2. Tap  following USB tethering.
Through BT tethering	<ol style="list-style-type: none"> 1. Tap  following BT tethering. 2. Tap  twice back to the Settings interface. 3. Go to Connected devices > Previously connected devices. 4. Tap  following the device. 5. Tap  following Internet access. <p> NOTE</p> <p>Before BT tethering, pair and connect the device with and to peripheral BT devices. For details, see 9.4.1 Pair a Peripheral BT Device.</p>

9.4 BT

BT allows the device to exchange files with another BT-enabled device over short distances.

9.4.1 Pair a Peripheral BT Device

1. Enable BT.


- Tap , go to **Connected devices > Connection preferences > BT**, and then tap  following **Use BT**.
- Swipe down from the top to enter the control center, and then tap **BT**.

The device automatically detects available BT devices, and can be discovered by other BT devices.

2. In the **BT** interface, tap **Pair new device**.
3. From the **Available devices** list, tap a device to pair.
4. Tap **PAIR**.
5. Wait for the BT device to respond to the BT pairing request.

After the peripheral BT device accepts the BT pairing request, the device can exchange files with the peripheral BT device.


NOTE

To forget the paired device, tap  following the device under the **Previously connected devices** list, and then tap **FORGET**.


9.4.2 Share a File Through BT

Many apps allow the device to exchange data with other devices through the BT. Take **Gallery** as an example.

To send photos or videos through the BT, do the following:


1. Tap .
2. Touch and hold the picture or video.
3. Tap **B**.
4. Tap the peripheral BT device from the **Available devices** list.

When the peripheral BT device accepts the request, the device will send the file to the peripheral BT device.

5. (Optional) To view the received file, tap , and then go to **Connected devices > Connection preferences > Files received via BT**.



9.4.3 Rename the Device

The device name for BT connection is the device model by default.

1. Tap .
2. Go to **Connected devices > Pair new device**.
3. Tap **Device name**.
4. Enter a new name.
5. Tap **RENAME**.

9.5 NFC

Near Field Communication (NFC) allows the device to exchange data with other devices with a quick touch.


1. Tap .
2. Go to **Connected devices > Connection preferences > NFC**.
3. Tap  following **Use NFC**.

9.6 VPN

A virtual private network (VPN) extends a private network across a public network. Apps running across the VPN can benefit from the functionality, security, and management of the private network.



NOTE

- Before setting up a VPN, you must enable the screen lock (pattern or password).
- For detailed configuration, consult your dealer.

-
1. Tap .
 2. Go to **Network & internet > VPN**.
 3. Tap **+**.
 4. Edit the VPN profile such as VPN name, server address, username, and password.
 5. Tap **SAVE**.

9.7 Airplane Mode


When you are on an airplane or in an area with radio restrictions, you may be required to make the device enter the airplane mode. In airplane mode, you cannot use voice or data services. However, you can use services over WLAN network or BT, initiate narrowband services, and use apps that require no cellular data connection.




- Method 1
 - a. Tap .
 - b. Tap **Network & internet**.
 - c. Tap  following **Airplane mode**.
- Method 2
 - a. Swipe down from the status bar.
 - b. Swipe down from the control center to unfold it.

- c. (Optional) swipe left to find **Airplane mode**.
- d. Tap **Airplane mode**.



10. Safety and Security


10.1 Set the Emergency Information

1. Tap .
2. Tap **Safety & emergency**.
3. Do any of the following:

If You Want to...	Then...
Add medical information and emergency contacts	<ol style="list-style-type: none"> 1. Tap Emergency information. 2. Under Medical information, tap Add information, and then fill out the information. 3. Tap  to go back to the Emergency information interface. 4. Under Emergency contacts, tap Add contact, and then tap a contact.
Turn on Emergency Call	<ol style="list-style-type: none"> 1. Tap Emergency SOS. 2. Tap  following Use Emergency SOS. 3. Tap Call for help. 4. Set the emergency number, and then tap SAVE. <p>In emergencies, press the On-Off key for five consecutive times, and the device will dial the emergency number automatically.</p>
Use emergency location service	<ol style="list-style-type: none"> 1. Tap Emergency Location Service. 2. Tap  following Use Emergency Location Service.


10.2 Set the Privacy

1. Tap .
2. Tap **Privacy**, and then do any of the following:
 - To check apps that used permissions in the last 24 hours, tap **Privacy dashboard**.
 - To set app's access to data, tap **Permission manager**.
 - To allow the device to display password characters briefly as you type it, tap  following **Show passwords**.

- To allow notifications on lock screen, tap **Notifications on lock screen**, and then tap **Show all notification content**.
- To allow a message prompt when app access text, images, or other copied content, tap  following **Show clipboard access**.

10.3 Set the Pattern or Password Unlock

When the screen is not in use, you can lock it to avoid unintended operations, protect privacy, and increase battery life. When the screen is locked, you can still initiate emergency calls, answer calls, open the camera, and receive messages and notifications.

1. Tap .
2. Go to **Security > Screen lock**.
3. Tap **Swipe, Pattern, Digital Password**, or **Mixed Password**.

When the screen is locked, swipe up, draw the pattern, or enter the password to unlock the screen.



10.4 Lock the SIM Card

You can set a PIN to lock the SIM card to avoid unauthorized use.

With SIM Card Lock enabled, you need to enter the PIN to unlock the SIM card every time the device is turned on. If you enter wrong PIN more than the preset times, a PUK is required to unlock the SIM card. After unlock the SIM card with a PUK, you need to reset the PIN. If you enter wrong PUK more than the preset times, the SIM card will be invalid.

NOTE



- Contact the network carrier to obtain the PIN and PUK.
- The digit number and preset input times of the PIN and PUK are subject to the network carrier.

-
1. Tap .
 2. Go to **Security > SIM card lock**.
 3. Tap  following **Lock SIM card**.
 4. Enter the PIN.
 5. Tap **OK**.
 6. (Optional) To change the PIN, tap **Change SIM PIN**, and then set a new PIN as instructed.


10.5 Use the Dual Domains

You can use the dual domains to separate the business data and personal data.


10.5.1 Add the Life Domain

1. Tap .
2. Go to **System** > **Dual Domain**.
3. Tap  following **Use dual domain**.
4. Tap **Add Life domain**.
5. (Optional) To switch from work domain to life domain, tap **Life domain**.

10.5.2 Delete the Life Domain



1. Tap .
2. Go to **System** > **Dual Domain**.
3. Tap **Del Life domain**.
4. Tap **DELETE**.

10.5.3 Auto-switch to the Life Domain

1. Tap **Life domain timing**.
2. Tap  following **life domain timing**.
3. Tap **Start time**, set the start time, and then tap **OK**.
4. Tap **End time**, set the end time, and then tap **OK**.


10.6 Connect to the MDM

After registering the device with the MDM server, you can connect the device to the server through network, and manage accesses, send app notifications, and upgrade the system through the MDM.

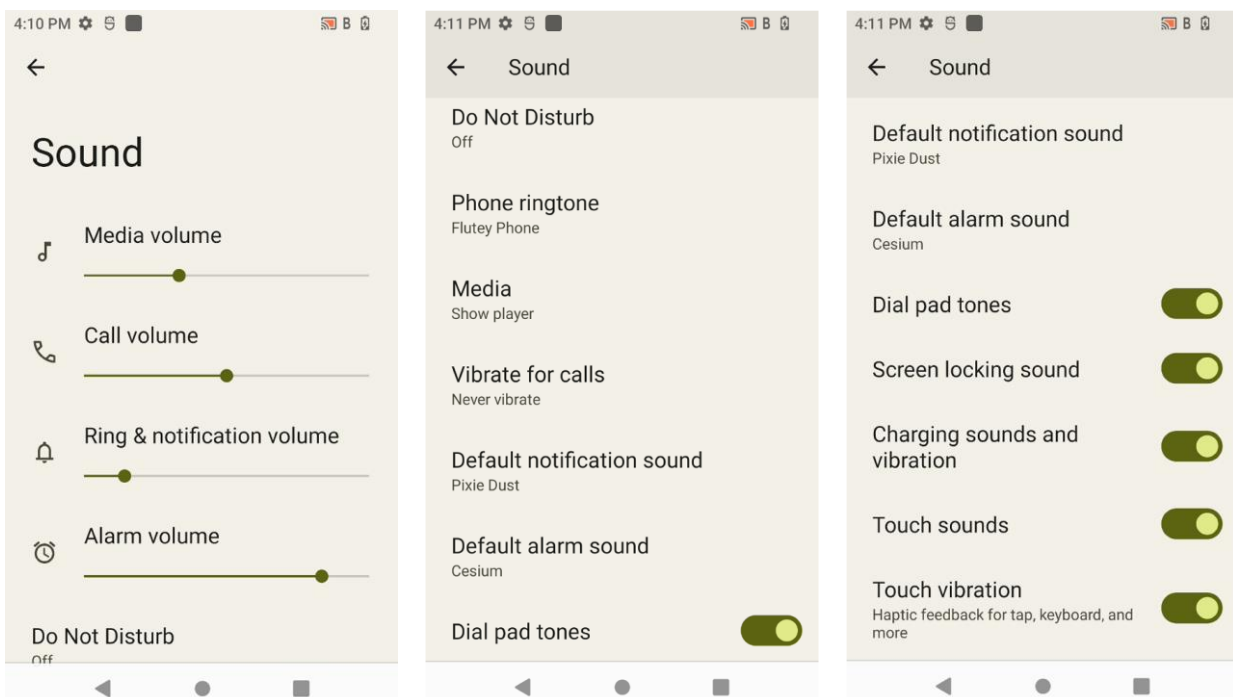
1. Tap .
2. Tap **MDM**.
3. Connect to the MDM server.
 - Tap **Server address**, enter the address of the MDM server, and then tap **Save**.
 - Tap  to scan the QR code of the MDM server.

11. Personalization

11.1 Set the Sound

1. Tap .
2. Tap **Sound**.

In the **Sound** interface, you can adjust the volume, set vibration mode for calls, default notification and alarm sounds, or tone for various operations.




11.2 Turn on Do Not Disturb

Do Not Disturb makes the device silent and the screen dark when the call or notification is coming in.


Through the Control Center

1. Swipe down from the status bar.
2. Swipe down from the control center to unfold it.
3. (Optional) Swipe left to find **Do Not Disturb**.
4. Tap **Do Not Disturb**.



Through the Sound Interface

1. Tap .
2. Tap **Sound**.
3. In the **Sound** interface, tap **Do Not Disturb**.
4. Tap **TURN ON NOW**.
5. (Optional) To set Do Not Disturb, do any of the following:
 - To set people, app, alarm or others that can interrupt Do Not Disturb, respectively tap **People**, **Apps**, and **Alarms & other interruptions**.
 - To set the start time for Do Not Disturb mode, tap **Schedules**.
 - To set the duration of Do Not Disturb mode if you turn it on through the shortcut, tap **Duration for Quick Settings**.
 - To set whether to hide notification alerts in the Do Not Disturb mode, tap **Display options for hidden notifications**.

Through the Notification Interface



1. Tap .
2. Tap **Notifications**.
3. In the **Notifications** interface, tap **Do Not Disturb**.
4. Repeat step 4 to 5 in [Through the Sound Interface](#).

11.3 Set the Wallpaper

1. Enter the wallpaper gallery by either of the following:
 - On the home screen, touch and hold the blank area, tap **Wallpapers**, and then tap **Wallpaper & style**.
 - Tap , and then tap **Wallpaper**.
2. Tap **CHANGE WALLPAPER**.
3. Tap **On-device wallpaper** or **My photos**.
4. Select a wallpaper.
5. Tap .
6. Select **Home screen** or **Lock screen**.
7. Select **Lock screen** or **Home and lock screen**.

11.4 Use the Location Services

The location service allows the device to acquire its location information with WLAN, cellular network, BT, and GPS.

1. Tap .
2. Tap **Location**.
3. Tap  following **Use location**.
4. (Optional) Do either of the following:

If You Want to...	Then...
Enable or disable the app's permission to access the location information	<ol style="list-style-type: none"> 1. Tap App location permission, and then tap the app. 2. Under LOCATION ACCESS FOR THIS APP, select Allow all the time, Allow only while using the app, Ask every time, or Don't allow. 3. (Optional) To allow the app access your precise location, tap Use Precise location.
Enable or disable Emergency Location service, Google Location Accuracy, Google Location History, WLAN or BT scanning	Tap Location services .


11.5 Set the Display

11.5.1 Switch Between Sleep and Wakeup Mode

- Manual sleep or wakeup

Press the **On-Off** key.


- Automatic sleep

- a. Tap .
- b. Go to **Display > Screen timeout**.
- c. Set the automatic sleep time.

When then screen is idle for the preset time, the screen automatically sleeps.

- Automatic wakeup




- a. Tap .

- b. Go to **Display > Lock screen**.
- c. Tap  following **Wake screen for notifications**.

In sleep status, if the device receives a notification, the screen will wake up.

11.5.2 Adjust the Screen Brightness



Brightness allows you to adjust the brightness to make the screen brighter or dimmer in different situations.

- Manual
 - a. Tap .
 - b. Go to **Display > Brightness level**.
 - c. Drag the slider.
- Automatic
 - a. Tap .
 - b. Tap **Display**
 - c. Tap  following **Adaptive brightness**.

The device automatically adjusts screen brightness based on your current lighting condition.



11.5.3 Turn On the Night Light

In Night Light mode, the screen automatically turns amber to help reduce your eye strain and fatigue in low-light conditions.

- Method 1
 - a. Swipe down from the status bar.
 - b. Swipe down from the control center to unfold it.
 - c. (Optional) Swipe left to find **Night Light**.
 - d. Tap **Night Light**.
- Method 2
 - a. Tap .
 - b. Go to **Display > Night Light**.
 - c. Tap  following **Use Night Light**.
 - d. (Optional) To set the night light start time, tap **Schedule**, and then select **None**, **Turns on at custom time**, or **Turns on from sunset to sunrise**.
 - e. (Optional) To adjust the color intensity, drag the slider under **Intensity**.


11.5.4 Set the Dark Theme

In the dark environment, the Dark Theme helps reduce your eye strain and fatigue.


1. Tap .
2. Go to **Display > Dark theme**.
3. Tap  following **Use Dark theme**.
4. (Optional) To set the dark theme start time, tap **Schedule**, and then select **None**, **Turns on at custom time**, or **Turns on from sunset to sunrise**.

11.5.5 Set the Text Display

11.5.5.1 Font Size


1. Tap .
2. Go to **Display > Font size**.
3. Drag the slider left to decrease or right to increase the font size.









11.5.5.2 Display Size

1. Tap .
2. Go to **Display > Display size**.
3. Drag the slider left to decrease or right to increase the display size.





12. Accessibility

12.1 Set the Text and Display



1. Tap .
2. Go to **Accessibility > Text and display**.
3. Do any of the following:




If You Want to...	Then...
Adjust the font size	<ol style="list-style-type: none"> 1. Tap Font size. 2. Drag the slider.
Adjust the display size	<ol style="list-style-type: none"> 1. Tap Display size. 2. Drag the slider.
Use bold text	Tap  following Bold text .
Correct the display color	<ol style="list-style-type: none"> 1. Tap Color correction. 2. Tap  following Use color correction. 3. Select a correction mode. 4. (Optional) To add a shortcut button for color correction onto the screen, tap  following Color correction shortcut.
Enable color inversion	<ol style="list-style-type: none"> 1. Tap Color inversion. 2. Tap  following Use color inversion. 3. (Optional) To add a shortcut button for color inversion onto the screen, tap  following Color inversion shortcut.
Remove animation effects	Tap  following Remove animations .
Use large mouse cursor	Tap  following Large mouse pointer .
Adjust the font outline and the background contrast	Tap  following High contrast text .

12.2 Set the Extra Dim Screen


1. Tap .
2. Go to **Accessibility > Extra dim**.
3. Tap  following **Make screen extra dim**.
4. (Optional) Do any of the following:
 - To set the dim degree, drag the slider under **Intensity**.
 - To keep extra dim after restart, tap  following **Keep on after device restarts**.
 - To add the shortcut button for extra dim switch onto the screen, tap  following **Extra dim shortcut**.

12.3 Use the Magnifier

1. Tap .
2. Go to **Accessibility > Magnification**.
3. Add a shortcut button for magnification switch onto the screen.
 - a. Tap  following **Magnification shortcut**.
 - b. Read the prompt, and then tap **GOT IT**.


The magnifier shortcut button  is added onto the screen.
 - c. Tap **SAVE**.
4. Set the magnifier type.
 - a. Tap **Magnification type**.
 - b. Select **Magnify full screen**, **Magnify part of screen**, or **Switch between full and partial screen**.
 - c. Tap **SAVE**.
5. To use the magnifier, tap .
6. Tap the square with two fingers, or tap  with one finger to drag the square to where you want to magnify.

12.4 Set the Vibration and Haptic Strength



1. Tap .
2. Go to **Accessibility > Vibration & haptic strength**.
3. Tap **Ring vibration**, **Notification vibration**, or **Touch feedback** to turn on or off the corresponding feature.

12.5 Set the Caption



1. Tap .

2. Go to **Accessibility** > **Caption preferences**.
3. Tap  following **Show captions**.
4. (Optional) Do either of the following:
 - To set the caption size and style, tap **Caption size and style**.
 - To set the caption language, go to **More options** > **Language**, and then select a language.



12.6 Adjust Audio Volume

1. Tap .
2. Go to **Accessibility** > **Audio adjustment**.
3. Do either of the following:
 - To enable mono soundtrack, tap  following **Mono audio**.
 - To adjust audio balance, drag the slider under **Audio balance**.

12.7 Set the Shortcut Buttons

1. Tap .
2. Go to **Accessibility** > **Accessibility shortcuts**.
3. Do either of the following:
 - To set the location, size, and transparency of the shortcut buttons, tap **Accessibility button**.
 - To use the added shortcut buttons on lock screen, tap  following **Shortcut from lock screen**.

12.8 Set the Text-to-Speech Output


1. Tap .
2. Go to **Accessibility** > **Text-to speech output**.
3. Do any of the following:
 - To set the preferred engine, tap  following **Preferred engine**.
 - To set the language of text-to-speech output, tap **Language**.
 - To adjust speech rate, drag the slider under **Speech rate**.
 - To adjust speech pitch, drag the slider under **Pitch**.

13. Apps

13.1 Manage the App

13.1.1 Close the Running App

You can close running apps in the background to release the memory.

1. At the bottom, tap .
2. Swipe left or right to choose an app, and swipe up to end it.

13.1.2 Install the App



CAUTION

- To protect the device from malware or viruses, download the trusted apps only.
- To avoid personal information leakage or misuse, read the instruction carefully and operate with caution when installing an app.

If the pre-installed apps cannot meet your needs, you can download more third-party apps through the browser, computer, Micro SD card or BT. Open the installation package and follow the on-screen instructions to finish installation. After successful installation, the app icon appears on the home screen.


13.1.3 Uninstall the App

It is recommended to uninstall unused non-system apps to release the storage space and improve the system running speed.

- Method 1
 - a. Tap .
 - b. Go to **Download > Installed**.
 - c. Select the app.
 - d. Tap **Uninstall**.
 - e. Tap **OK**.
- Method 2
 - a. Tap .
 - b. Go to **Apps > See all apps**.
 - c. Tap the app.

- d. Tap **UNINSTALL**.
- e. Tap **OK**.
- Method 3
 - a. Touch and hold the app icon, and then tap **App info**.
 - b. Tap **UNINSTALL**.
 - c. Tap **OK**.

13.1.4 Force Stop or Reuse the App


- Method 1
 - a. Tap .
 - b. Go to **Apps > See all apps**.
 - c. Tap the app.
 - d. Tap **FORCE STOP** to force stop the app or **OPEN** to reuse the app.
 - e. Tap **OK**.
- Method 2
 - a. Touch and hold the app icon, and then tap **App info**.
 - b. Tap **FORCE STOP** to force stop the app or **OPEN** to reuse the app.
 - c. Tap **OK**.

13.1.5 Manage the App Permission

When you open an app, the app may request the access to a specific function or information. You can tap **WHILE USING THE APP, ONLY THIS TIME**, or **DON'T ALLOW** to accept or deny the request.

To view or change the permission settings of the third-party apps, do the following:

Through the Privacy Interface

1. Tap .
2. Go to **Privacy > Permission manager**.
3. Tap the permission type, and then select the app.
4. Select **Allow only while using the app**, **Ask every time**, **Don't allow**, or other displayed options.

Through the Apps Interface

1. Tap .






2. Go to **Apps > See all apps**.
3. Tap the app.
4. Tap **Permissions**.
5. Do either of the following:
 - To deny a permission type, select the permission type under **Allowed**, and then select **Don't Allow** or other displayed options.
 - To allow a permission type, select the permission type under **Not allowed**, and then select **Allow** or other displayed options.

 **NOTE**

To set the special app access, in the **Apps** interface, tap **Special app access**.

13.1.6 Pin the App

App Pinning allows you to fix the current app interface so that you can focus on the current interface.

1. Enable App Pinning.
 - a. Tap .
 - b. Go to **Security > App pinning**.
 - c. Tap  following **Use app pinning**.
 - d. Tap **OK**.
2. Pin the app.
 - a. Open an app.
 - b. At the bottom, tap .
 - c. Tap the upper icon.
 - d. Tap **Pin**.
3. (Optional) To unpin the app, at the bottom, touch and hold  and  simultaneously.


13.2 Use the Google App

 **NOTE**

Google, Google Maps, Google Duo and other marks are trademarks of Google LLC.


A Google Account is required before you use the Google apps. Otherwise, the Google services may be totally or partially restricted.

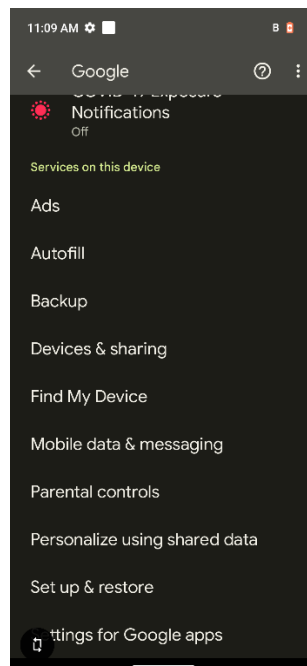
To create your Google Account, do the following:

1. Tap .
2. Go to **Passwords & accounts > Add account > Google**.
3. Follow the on-screen instructions.

13.2.1 Settings

If your phone uses Google Play Services, you can manage your Google apps and services in Google Settings.

1. Tap .
2. Tap **Google**.
3. Set any item in the following figure.



For further details, refer to **Manage your Google Account** at <https://support.google.com/accounts/?hl=en#topic>.

13.2.2 Google Chrome

Fast, easy and secure browsing with Google Chrome.

CAUTION

To protect your device from malware or viruses, visit trusted website only.

13.2.3 Google Drive

Google Drive is a smart online storage and backup that puts all your files within reach from any smartphone, tablet,

or computer. Every file in Drive — like your photos, PDFs and documents — is backed up safely so you can't lose it. You can even invite others to view, download, and collaborate on all the files you want.

13.2.4 Google Duo

Simple, high-quality video chat.

13.2.5 Gmail

Gmail is an easy to use email app that saves you time and keeps your messages safe. Get your messages instantly via push notifications, read and respond online & offline, find any message quickly and lots more.

13.2.6 The Google app

The Google app keeps you in the know about the things you care about. Find quick answers, explore your interests, and get personalized updates in your Google feed. The more you use the Google app, the better it gets.

13.2.7 Google Maps

Explore and navigate your world with Google Maps. Find places you will love, connect with businesses you are interested in, and get around with real-time traffic information.

13.2.8 Google Play

Whether you are into photography, picking stocks or just keeping up with your friends, there is an app for you. Choose from over a million apps on the Google Play Store.

13.2.9 YouTube

See what the world is watching in music, gaming, entertainment, news and more. Subscribe to channels, share videos with friends, edit and upload videos, and watch on any device.

13.2.10 Google TV

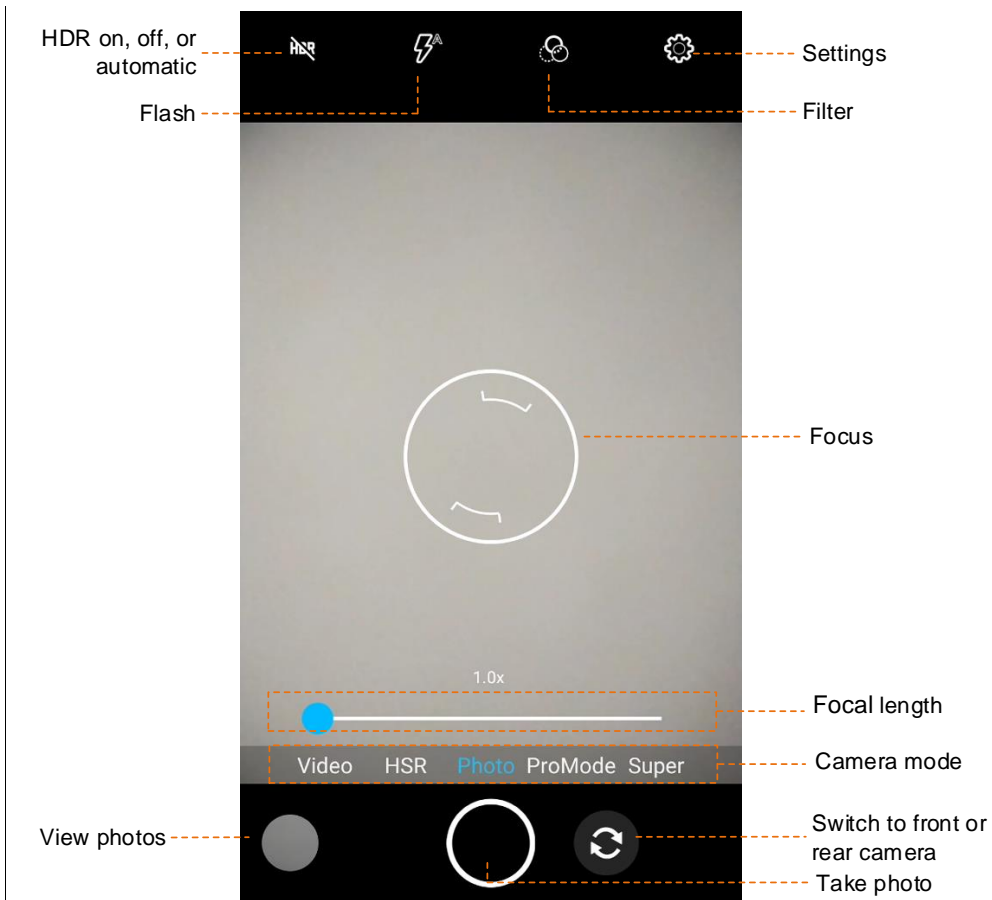
Make it easy to find and enjoy the entertainment you love in one place. With Google TV, you will be able to find what to watch next, see the latest releases, and use your phone as your remote. One list for all your discoveries.



13.3 Use the Multimedia App


13.3.1 Camera







The Camera app allows you to take a photo or record a video.

13.3.1.1 Take a Photo



1. Tap .
2. Tap **Photo**.
3. (Optional) To switch between the front and rear cameras, tap .
4. Point the camera to the object you want to shot.
5. (Optional) Set the camera.

If You Want to...	Then...
Focus the camera to a specific point	Tap the point on the screen.
Adjust the focal length	<ul style="list-style-type: none"> ● Spread to zoom in and pinch to zoom out. ● Drag the focal length slider.
Switch the camera to another mode	Tap ProMode or Super .
Set the flashlight	<ul style="list-style-type: none"> ● : The flashlight is off.

If You Want to...	Then...
	<ul style="list-style-type: none"> ● : The flashlight automatically turns on when working in dim light. ● : The flashlight is on.
Set High-Dynamic Range (HDR) mode	<ul style="list-style-type: none"> ● : The HDR mode is off. ● : The HDR mode will be automatically enabled according to the light conditions. ● : The HDR mode is on. With HDR enabled, the camera can take photos with greater contrast, more vivid colors, and more details under both bright and dark light.
Enable a filter	<ol style="list-style-type: none"> 1. Tap . 2. Select a filter.

6. Tap .

7. (Optional) To view the photo, tap the circle in the lower left corner.

13.3.1.2 Use the Pro Mode




In Pro mode, you can adjust the exposure compensation and light sensitivity.



1. Tap .


2. Tap **ProMode**.

3. Point the camera to the object for which you want to take a picture.


4. (Optional) Set the camera.





If You Want to...	Then...
Adjust exposure compensation	Tap  . Higher exposure compensation value indicates brighter photos.
Adjust focal distance	<ol style="list-style-type: none"> 1. Tap Focus . 2. Drag the slider toward Infinity or Macro to adjust the clarity of images.
Select a white balance mode	<ol style="list-style-type: none"> 1. Tap . 2. Select a mode according to the light condition.

If You Want to...	Then...
Adjust ISO sensitivity	<ol style="list-style-type: none"> 1. Tap . 2. Adjust the value to low when taking a photo of a still object or in dim condition, or to high when taking a photo of a moving object or in bright condition. High ISO sensitivity indicates more image noise.
Adjust the focal length	<ol style="list-style-type: none"> 1. Tap . 2. Drag the focal length slider.

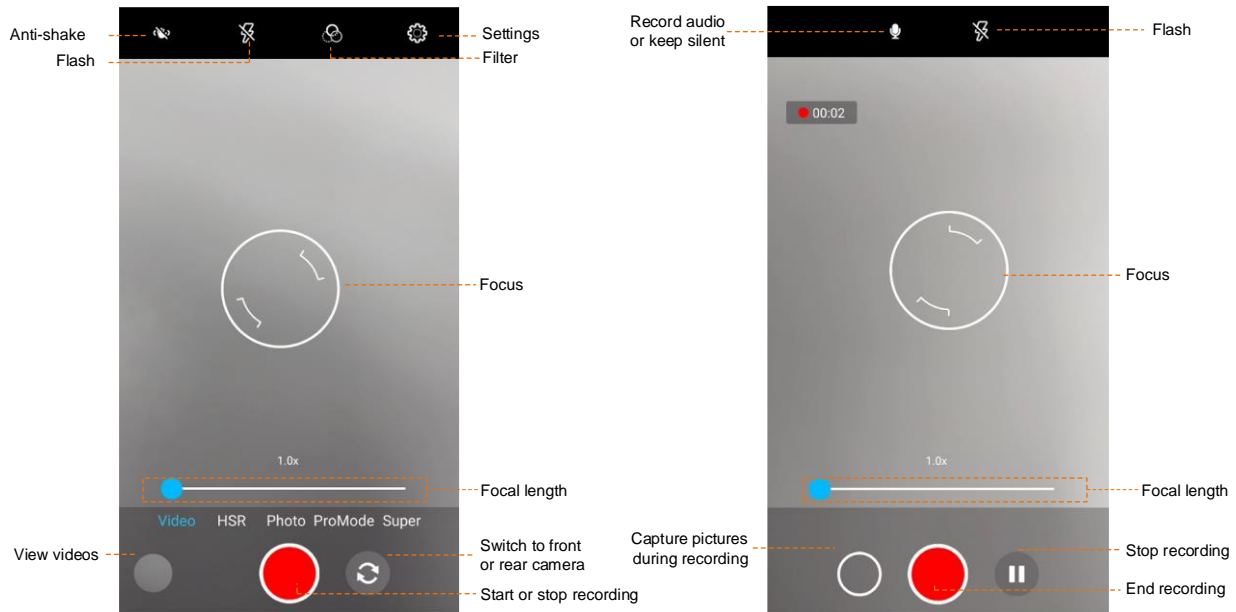
5. Tap .
6. (Optional) To view the photo, tap the circle in the lower left corner.



13.3.1.3 Set the Photo Parameters







In the **Camera** interface, tap , and then do any of the following:

- General Parameters
 - To record the location when shooting the picture, tap  following **GPS location**.
 - To enable face detection, tap  following **Face Detection**.
 - To set the storage directory, tap **Storage**, and then select a path.
- Still Camera Parameters
 - To enable countdown timer, tap **Countdown timer**, and then select a value.
 - To take multiple photos a time, tap  following **Continuous Shot**.
 - To set picture size, tap **Picture size**, and then select a picture size.
 - To set picture quality, tap **Picture quality**, and then set the quality to **Low**, **Standard**, or **High**.
 - To set exposure, tap **Exposure**, and then select a value.
 - To select a white balance mode, tap **White balance**, and then select a mode.
 - To enable shutter sound, tap  following **Shutter Sound**.
 - To set anti banding level, tap **Anti Banding Level**, and then select a value.
 - To reset camera settings, tap **Restore defaults**.







13.3.1.4 Record a Video






1. Tap .
2. Select **Video** (normal) or **HSR** (60 fps high frame rate).
3. (Optional) To switch between the front and rear cameras, tap .
4. Point the camera to the object you want to record.
5. (Optional) Set the camera.

If You Want to...	Then...
Adjust the focal length	<ul style="list-style-type: none"> ● Spread to zoom in and pinch to zoom out. ● Drag the focal length slider.
Set the anti-shake	<ul style="list-style-type: none"> ● : Anti-shake is disabled. ● : Anti-shake is enabled. <p> NOTE Anti-shake is available only in normal mode.</p>
Set the flashlight	<ul style="list-style-type: none"> ● : The flashlight is off. ● : The flashlight is on.
Use a filter	<ol style="list-style-type: none"> 1. Tap . 2. Select a filter.

6. Tap .

7. (Optional) During recording, do any of the following:
 - To make the recorded video audible or silent, tap  or .
 - To stop recording or continue to record, tap  or .
 - To capture a picture during recording, tap .
8. To end recording, tap .



13.3.1.5 Set the Video Parameters

- General Parameters
 - To record the location when shooting the picture, tap  following **GPS location**.
 - To enable face detection, tap  following **Face Detection**.
 - To set the storage directory, tap **Storage**, and then select a path.
- Video Camera Parameters
 - To set the video quality, tap **Video quality**, and then select a value.
 - To set the maximum video duration, tap **Video duration**, and then select a value.
 - To set the mode of noise reduction, tap **Noise Reduction**, and then select a mode.
 - To set the video encoding method, tap **Video Encoder**, and then select a method.
 - To set the audio encoding method, tap **Audio Encoder**, and then select a method.
 - To set the rotation angle of videos, tap **Video Rotation**, and then select an angle.
 - To set the camera's shutter speed, tap **Time lapse**, and then select a value.
 - To enable shutter sound, tap  following **Shutter Sound**.
 - To set anti banding level, tap **Anti Banding Level**, and then select a value.
 - To reset camera settings, tap **Restore defaults**.







13.3.2 Gallery

The Gallery app allows you to view, manage, and share photos or videos.







13.3.2.1 View a Photo or Video

1. Tap .
2. In the upper left corner, tap .
3. Select a category.





13.3.2.2 Play a Video

1. Tap .
2. Tap the video you want to play.
3. Tap .
4. During playback, do either of the following:
 - To pause the video, tap . To continue the video, tap .
 - To share the video, tap  to share through the BT or tap  to select other sharing methods.

13.3.2.3 Edit a Photo

1. Tap .
2. Tap the photo you want to edit.
3. Tap , and then do any of the following:
 - To set the filter, tap , and then select a filter.
 - To add the border, tap , and then select a border.
 - To crop, straighten, or rotate the photo, tap , and then select an effect.
 - To adjust the exposure, contrast, saturation, and brightness, tap .
4. In the upper right corner, tap **SAVE**.

13.3.2.4 Share, or Delete a Photo or Video

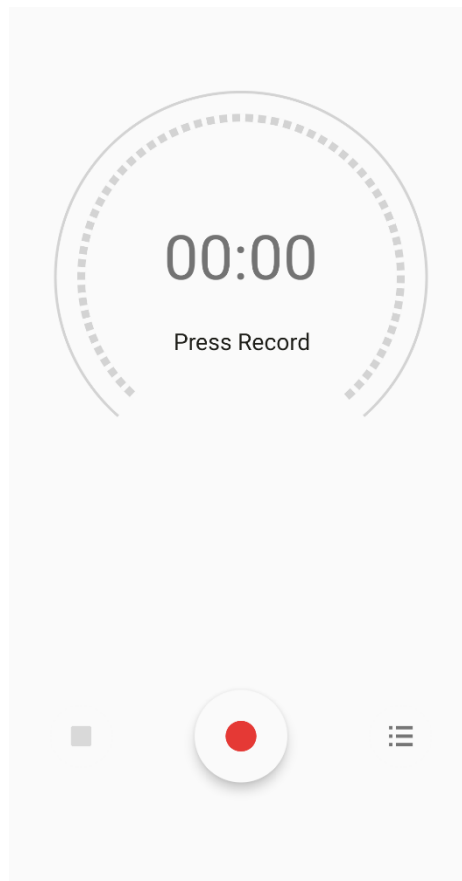
1. Tap .
2. Touch and hold a video or photo, or select more videos or photos.
3. Do either of the following:
 - To share the video or photo, tap  to share through the BT or tap  to select other sharing methods.
 - To delete the video or photo, tap , and then tap **OK**.


13.3.3 Sound Recorder



The Sound Recorder app allows you to record voice at any time in your daily life and work.


13.3.3.1 Record an Audio

1. Tap .



2. Tap  to start recording.

During recording, you can tap  to pause or tap  again to continue recording.


3. Tap  to stop recording.

The **Save recording?** dialog box appears.

4. Edit the file name, and then tap **SAVE**.

13.3.3.2 View and Play a Recorded Audio

1. Tap .

2. In the lower right corner, tap .

The **Recording list** interface appears.




3. Tap the recording file to play it.

13.3.3.3 Rename, Share, or Delete a Recorded Audio

1. Tap .

2. Tap .

The **Recording list** interface appears.

3. Touch and hold a recording file, or select more recordings.
4. Do any of the following:
 - To rename the file(s), tap  to enter the name, and then tap **SAVE**.
 - To share the file(s), tap , and then select a sharing method.
 - To delete the file(s), tap , and then tap **DELETE**.


13.4 Use the Utility App

13.4.1 iAssistant

The iAssistant app allows you to control the device to audibly convey information or execute a task using voice commands.

 **NOTE**

Only after authorization, you can use iAssistant. For details, contact your dealer.

1. Wake up iAssistant:
 - Tap .
 - If you have assigned the iAssistant Wakeup feature to the **SK1**, short press or long press the **SK1** based on the operation method you have set. For details, see [2.2 Programmable Key](#).
2. Ask the device to execute specific actions using the voice commands as follows:

No.	If You Want to...	Say...
1	Initiate PTT transmission	Start call
2	End PTT transmission	End call
3	Take a photo using the rear camera.	Take photo
4	Take a photo using the front camera.	Use front camera to take photo
5	Record a video using the rear camera	Record video
6	Record a video using the front camera	Use front camera to record video
7	Hear the location information	Broadcast location
8	Hear the current time, battery level, and signal status	Broadcast status







No.	If You Want to...	Say...
9	Hear the signal of public network and base station	Broadcast signal
10	Hear battery level	Broadcast battery level
11	Hear the current time	Broadcast time
12	Switch to life domain	Switch to life domain
13	Switch to work domain	Switch to work domain
14	Enable silent mode	Enable silent mode
15	Disable silent mode	Disable silent mode

NOTE

The "Broadcast location" command is valid only when the network is available.

13.4.2 Files

The Files app is used to store and manage all files of the device, including images, videos, audios, and downloaded apps.

1. Tap .
2. View the files.
 - Tap  to search for files.
 - In the upper left corner, tap , and then view files by type.
3. Touch and hold the file until it is selected, or tap to select more files.
4. Do any of the following:
 - To share the file, tap , and then select a sharing method.
 - To delete the file, tap , and then tap **OK**.
 - To copy, move, or rename the file, tap .

13.4.3 Documents


The Documents app allows you to view, download, and manage notifications from the Smart Mobile Device Management (MDM) server.

The main interface of the app is divided into the following tabs:

- **Notifications:** displays notifications from the MDM server.
- **Library:** categorizes all notifications from the MDM server.
- **Download:** allows you to manage notifications which are being downloaded or have been downloaded.



The device automatically stops or resumes downloading depending on the power supply and network connection.

13.4.3.1 View a Notice

1. Tap .
2. Tap **Notifications**.
3. Tap the unread or read notice to view details.


When the device receives a notice, you can directly tap the notice to view details.

13.4.3.2 Browse or Download a Notice

1. Tap .
2. Tap **Library**, and then browse notices in either of the following ways:
 - Tap **Category** to browse the notices by category.
 - Tap , and then enter the keywords to search for a notice.
The device displays the search results below the search box.
3. Tap the notice to be downloaded.
4. Tap **Download all**.

After viewing the notice, you can also download the notice directly from the notice details interface.




13.4.3.3 Manage the Notice

1. Tap .
2. Tap **Download**, and then do the following:
 - To manage a downloading notice, tap **Downloading**, and then tap the notice to pause downloading, continue downloading, re-download, or delete the notice.
 - To manage a downloaded notice, tap **Downloaded**, and then tap the notice to view or delete it.





13.4.4 Clock

The Clock app allows you to set the alarm, view the world clock, and use the timer or stopwatch.

Alarm





1. Tap .
2. Tap .
3. Tap .
4. Set the time.
5. Tap **OK**.
6. (Optional) Set the repeat days, ringtone, label, and more.

Clock



1. Tap .
2. Tap .
3. Tap .
4. Select or search a city.
5. Tap  to go back to the **Clock** interface.



You can see the time of the selected city.

Timer

1. Tap .
2. Tap .
3. Set the time.
4. Do any of the following:
 - Tap  to start the countdown.
 - Tap  to stop the countdown.
 - Tap **DELETE** to delete the current countdown.
 - Tap **ADD TIMER** to add a new timer.


Stopwatch

1. Tap .
2. Tap .
3. Do any of the following:

- Tap  to measure the time.
 - Tap  to stop measuring the time.
 - Tap **RESET** to clear the records.
 - Tap **LAP** to record each lap.
4. After measurement, if you want to share the measurement results, tap **SHARE**, and then select a sharing method.


13.4.5 Calendar

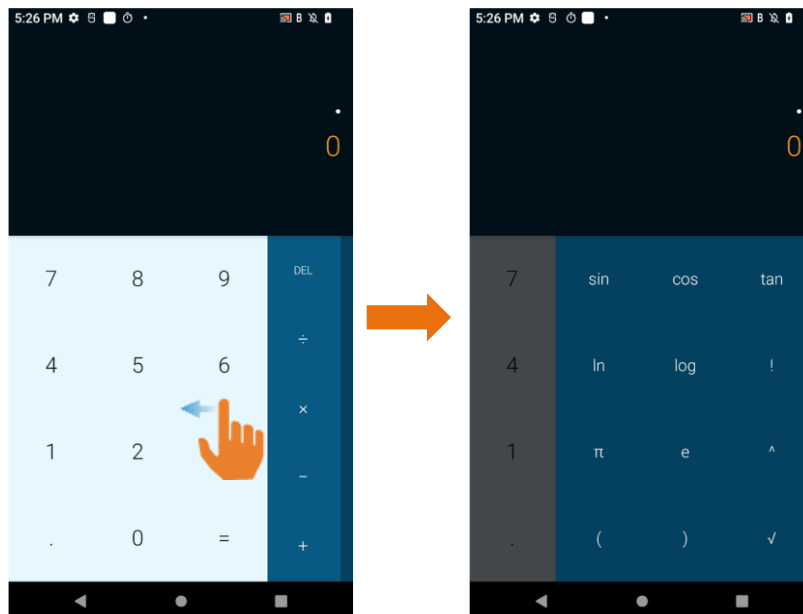
The Calendar app allows you to view days, weeks, or months.

To open the calendar, tap .

13.4.6 Calculator



The Calculator app facilitates basic and advanced arithmetic calculations.


To open the calculator, tap .

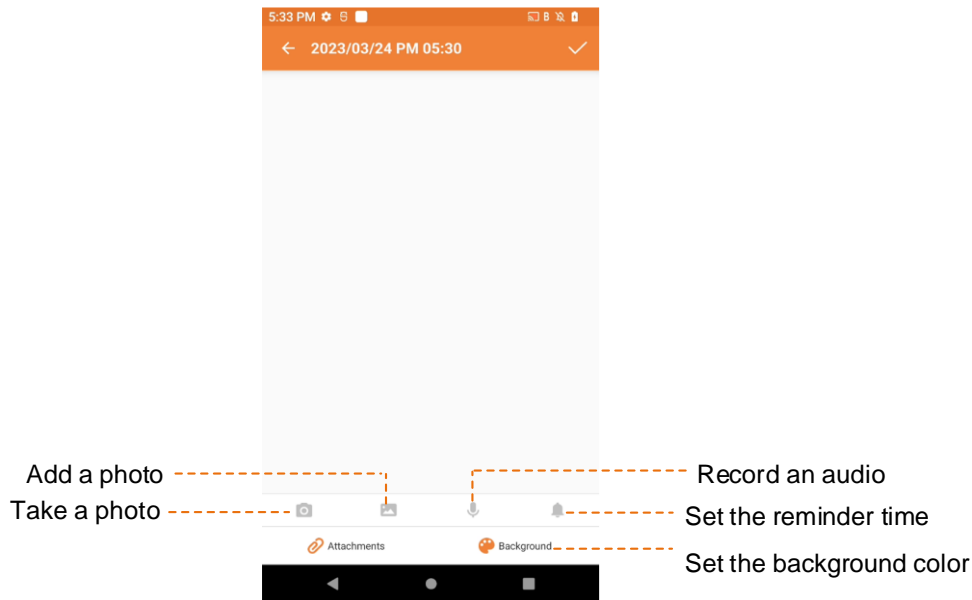


13.4.7 Notes

The Notes app records and stores text information.

1. Tap .
2. Tap  to create a new note.
3. Enter the text content.

4. (Optional) Take a photo, record an audio, add a photo, or add a reminder time.
5. Tap .




13.4.8 APPCenter

The APPCenter app allows you to view, download, and manage apps from the Smart MDM server.


- The **Notifications** interface displays notifications.
- The **Apps** interface classifies all apps for you to view or search for.
- The **Download** interface allows you to manage the apps installed or being downloaded. The device automatically stops or resumes downloading according to the power supply and network connection.


13.4.8.2 View the App Notification

1. Tap .
2. Tap **Notifications**.
3. Tap the unread or read notification to view details.

When receiving a notification, you can directly tap the notification to view details.

13.4.8.3 View and Download the App

1. Tap .
2. Tap **App**, and then view apps in either of the following ways:


- Tap **Category** to view the apps by category.
- Tap , and then enter the keywords of the app.
The device displays the results below the search box.

3. Select and download the app.

After receiving and viewing a notification, you can download the app directly from the notification details interface.





13.4.8.4 Manage the App Download

Downloading

1. Tap .
2. Tap **Download**.
3. Tap **Downloading**.

You can see the downloading app, stop downloading, continue to download, re-download, and delete the downloading.

Installed



1. Tap .
2. Tap **Download**.
3. Tap **Installed**.
4. Do either of the following:
 - To uninstall the app, tap .
 - To update the app, tap . After update, you can tap  to open the app.

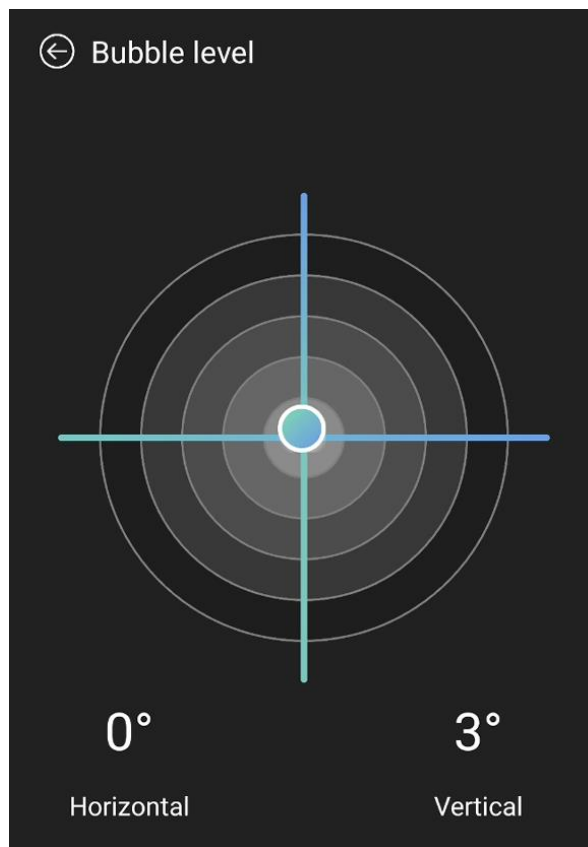
13.5 Use the Toolbox

The Toolbox app incorporates a range of tools for your daily use.

13.5.1 Bubble Level

The Bubble level tool helps you to measure whether an object is level.

1. Tap .
2. Tap .







3. Place the device on the surface of the measured object.

When both **Horizontal** and **Vertical** display 0° , the object is level.

13.5.2 Step Tracker

The Step tracker tool helps you to track and record your steps in real time.

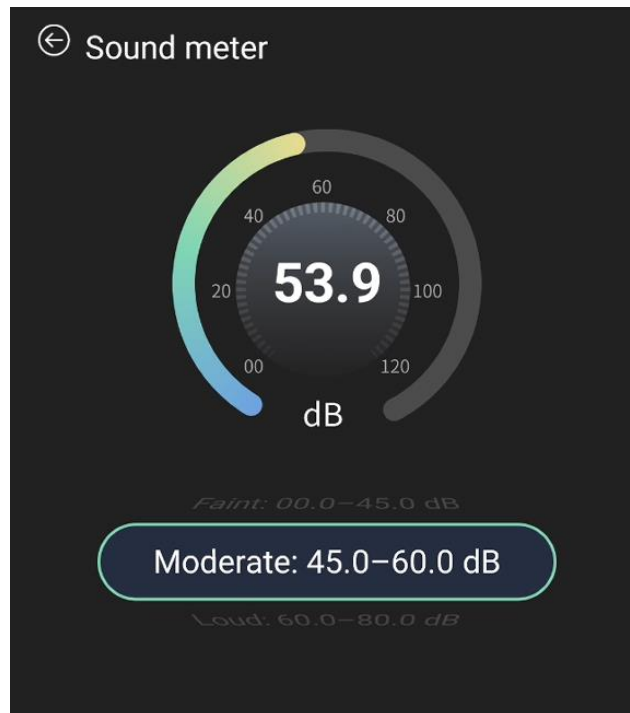
1. Tap .
2. Tap .
3. In the **Pedometer** interface, do any of the following:
 - To show or hide real-time steps on the lock screen, tap  above **Show off lock screen**, or  above **Show on lock screen**.
 - To set daily target steps, tap **SET TARGET**, enter the target steps, and then tap **SAVE**.
 - To check history steps, tap **HISTORY**.

13.5.3 Sound Meter

The Sound meter tool helps you to check the noise level in your surroundings.



1. Tap .

2. Tap .



13.5.4 Hang-a-Pic



The Hang-a-Pic tool helps you to measure whether an object is hanged vertically.

1. Tap .
2. Tap .
3. Hold the device with the **PTT** key facing down, and point the hanged object into the footage.
4. Adjust the angle of the device until the white vertical line on the screen aligns with the edge of the object.

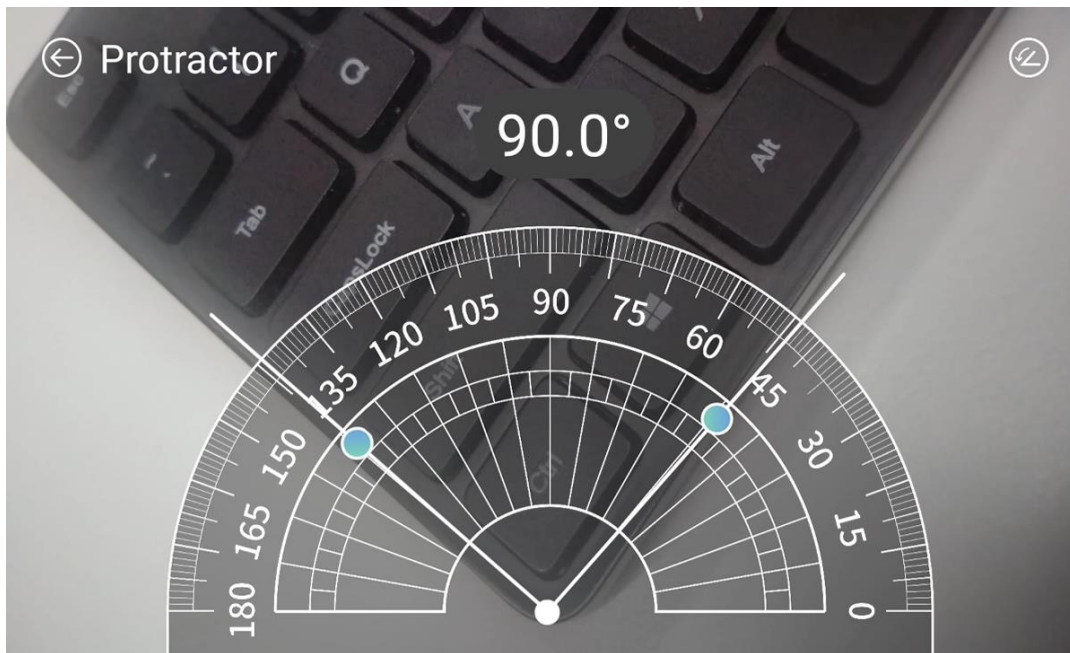
When **Vertical** displays **90°**, the object is vertical.

13.5.5 Protractor

The Protector tool allows you to measure the angle.



1. Tap .
2. Tap .
3. Point the measured angle into the footage.
4. Overlap the white dot on the screen and the vertex of the measured angle.
5. Adjust the two lines on the screen until they align with the two sides of the measured angle.

The device displays the value of the measured angle.






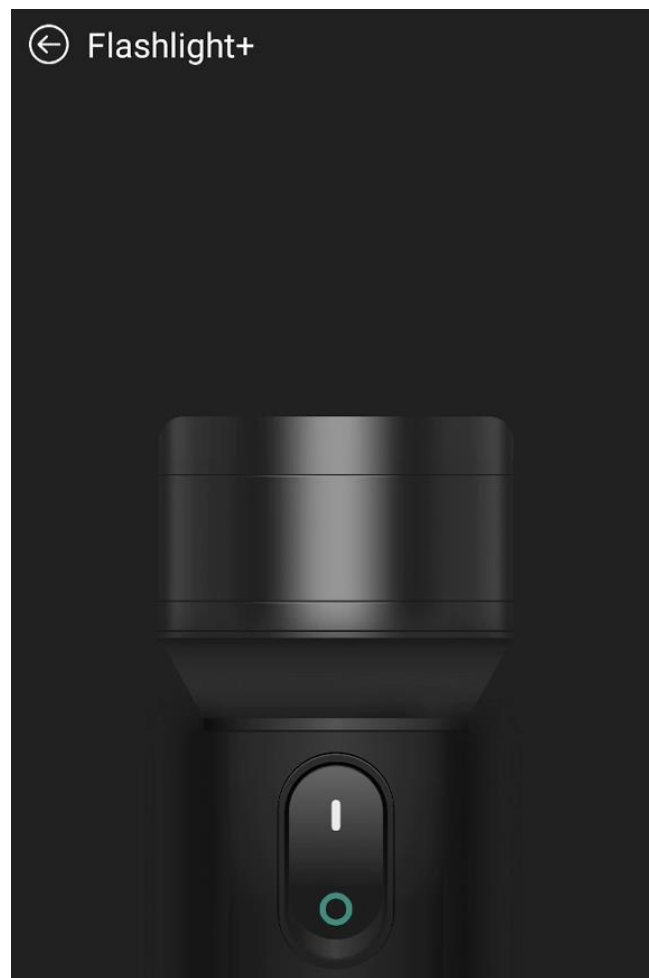
13.5.6 Height

The Height tool helps you to measure the height of an object.



1. Tap .
2. Tap .
3. Follow the instruction on the screen.

13.5.7 Flashlight+

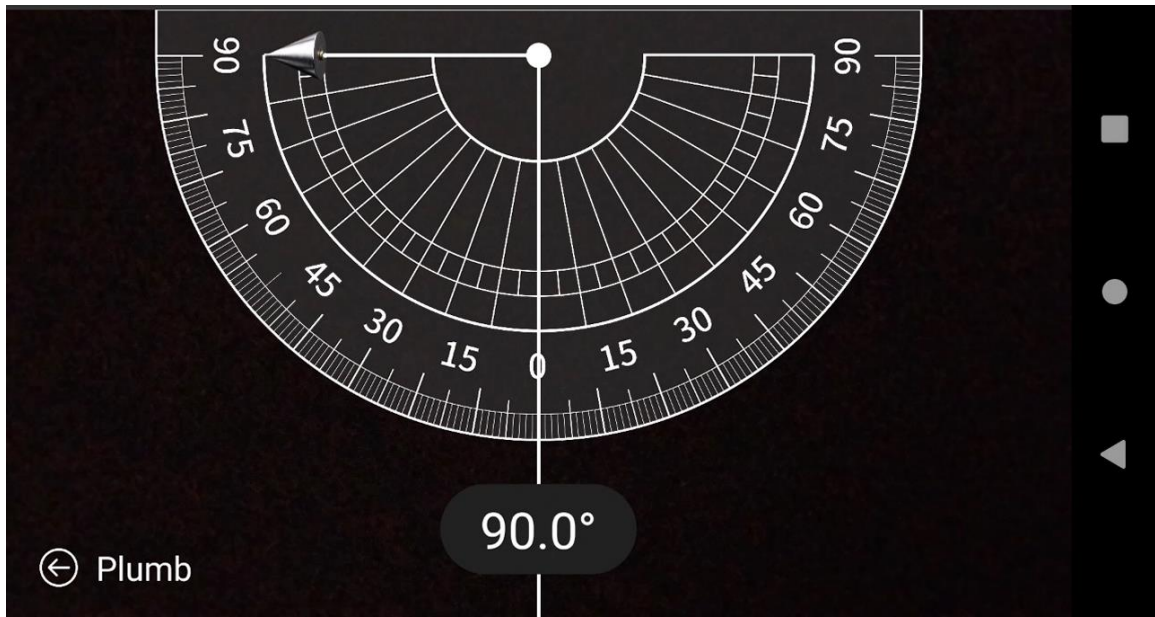
1. Tap .
2. Tap .
3. Tap  to turn on or off the flashlight.



13.5.8 Plumb

1. Tap .
2. Tap .
3. Hold the device with the **PTT** key facing down, and point the measured object into the footage.
4. Adjust the angle of the device until the plumb line aligns on the screen with the edge of the measured object.




When the screen displays **0°**, the object is vertical.




14. System

14.1 Set the Language and Input

You can set the display language, keyboard, input method, and enable input tools.

1. Tap .
2. Go to **System** > **Languages & input**.
3. Do any of the following:
 - To select the language, tap **Languages**.
 - To select the keyboard and input method, tap **On-screen keyboard**.
 - To enable spell checker, tap **Spell checker**, and then tap  following **Use spell checker**.
 - To start a personal dictionary, go to **Personal dictionary** > , and then enter a word to the dictionary.



14.2 Set the Gestures


1. Tap .
2. Go to **System** > **Gestures** > **System navigation**.
3. Select **Gesture navigation** or **3-button navigation**.

14.3 Set the Date and Time

The device can automatically synchronize with the local date, time, and time zone over mobile network. You can also manually set them.

1. Tap .
2. Go to **System** > **Date & time**.

If You Want to...		Then...
Automatically	Set time to synchronize with the network	Tap  following Set time automatically .
	Set time zone to synchronize with the network	Tap  following Set time zone automatically .
Manually	Set date	<ol style="list-style-type: none"> 1. Tap Date. 2. Select a date.


If You Want to...		Then...
		3. Tap OK .
	Set time	1. Tap Time . 2. Select a time. 3. Tap OK .
	Set time zone	1. Tap Time zone . 2. Select a time zone, and then tap OK .
	Set time format	Tap  following Use 24-hour format .

14.4 Reset the Device

CAUTION

Before resetting the device, back up the data in advance to avoid data loss.

When the device runs slowly or the apps quit unexpectedly, you can reset the network, apps, or system to fix the problem.

1. Tap .
2. Go to **System > Reset options**.
3. Do any of the following:
 - To reset all network settings, tap **Reset WLAN, mobile & BT > RESET SETTINGS**, and then tap **RESET SETTINGS**.
 - To reset all app data, tap **Reset app preferences**, and then tap **RESET APPS**.
 - To clear the downloaded SIM cards, tap **Erase downloaded SIMs**, and then tap **ERASE**.
 - To free up space on the device, tap **Erase all data (factory reset) > Erase all data**.

14.5 Upgrade the System

CAUTION


- Use the official software only to upgrade the system, to prevent equipment failure, data loss, or damage to the system security.
- Back up your data before upgrade.
- Ensure that the battery power is more than 30% before upgrading.

Prerequisites

You have connected the device to the MDM according to [10.6 Connect to the MDM](#).

Procedure

When an upgrade package is available, upgrade the system.

- Manual upgrade
 - Tap , go to **System > System upgrade**, and tap **Check for update**, and then follow the on-screen instructions to upgrade the device.
 - When the **System upgrade** dialog box appears on the screen, tap **OK** to download the upgrade package. After the download is completed, the device starts to upgrade.
- Automatic upgrade
 - The device automatically downloads the upgrade package, and then starts to upgrade.
 - After you receive a system upgrade notification, the device automatically downloads the upgrade package, and then starts to upgrade.

15. Troubleshooting

Phenomena	Analysis	Solution
The device cannot be turned on.	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 dirtied or damaged battery contacts.	Clean the battery contacts.
The touch screen fails to respond to any taps.	Too many apps may be running.	Forcibly stop some apps or restart the device.
The keys, screens, or LED indicators do not work normally.	The keys, screens, or LED indicators may fail to function temporarily.	Restart the device.
	The keys, screens, or LED indicators may be damaged.	Contact your dealer or Hytera technicians for maintenance.
The touch screen fails to be unlocked.	The unlock pattern you draw or password you input may be incorrect.	Contact your dealer or Hytera technicians for maintenance.
The device cannot access the mobile network.	The SIM card may be abnormal or out of service due to unpaid charges.	<ul style="list-style-type: none"> ● Make sure the SIM card functions properly. ● Pay the charges, and then restart the device.
	The Mobile Data feature may be not enabled for the SIM card.	Contact the carrier.
	The signal may be weak.	Make sure the device is within the network coverage.
	Both the mobile data and WLAN network may be turned on, but the WLAN connection is unstable.	Turn the WLAN off.
The sound is too low, unstable, or muted.	The signal may be weak.	Make sure call participants are within the communication range.

Phenomena	Analysis	Solution
	The volume may be too low.	Increase the volume.
	The speaker may be blocked or damaged.	Clean or replace the speaker.
The camera does not work.	The device may not detect the front or rear camera.	Restart the device.
	The storage space may be insufficient.	Free up the storage space.
The device fails to detect the SIM card or SD card.	The SIM card or SD card may be installed improperly.	Remove and reattach the SIM card or SD card.
	The SIM card or SD card may suffer from poor contact caused by dirtied or damaged metal contacts.	Clean the metal contacts of the SIM card or SD card.
The device cannot locate your position.	The device may be at an improper position. For example, the signal may be blocked by tall buildings or frustrated in the underground areas.	Move to an open and flat area, and try again.
The battery fails to be charged.	The data cable may be connected improperly.	Remove and re-connect the data cable.
	The power adapter plug may be inserted improperly into the socket.	Remove and reinsert the plug.

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

16. Care and Cleaning

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

16.1 Product Care

- Do not pierce or scrape the device (including the screen) with hard or sharp objects.
- Do not drop the device or collide with other objects.
- Keep the device far away from substances that can corrode the circuitry.
- Do not hold the device by the earpiece cable.

16.2 Product Cleaning

CAUTION

Turn the device off and remove the battery before cleaning.

- Clean up the dust and fine particles on the device surface and charging contacts with a clean and dry lint-free cloth or a brush regularly.
- Use neutral cleanser and a non-woven fabric to clean the screen, keys, 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 device is completely dry before use.

17. Optional Accessories

CAUTION

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

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

18. Statements

18.1 Copyright Information

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If you have any suggestions or would like to receive more information, please visit our website at: <https://www.hytera.com>.

19. Abbreviations

Abbreviation	Full Name
GPS	Global Positioning System
LCD	Liquid-Crystal Display
LED	Light-Emitting Diode
MDM	Mobile Device Management
PC	Personal Computer
PTT	Push-To-Talk
SIM	Subscriber Identity Module
USB	Universal Serial Bus
WLAN	Wireless Local Area Networks



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