

ZTE

ZTE **AXON** 30Ultra 

**User Manual**

## About This Manual

Thank you for choosing this ZTE mobile device. In order to keep your device in its best condition, please read this manual and keep it for future reference.

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## Instructional Icons



### **NOTE**

Additional information, supplementary instruction or tips for the operation of the product.



### **CAUTION**

Safety information that, if ignored, may cause minor damage to the equipment or service interruption.



### **WARNING**

Safety information that, if ignored, may cause serious damage to the equipment or danger to personal safety.

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# Exciting New Features

## Face Recognition

With the front camera, you can use your face to unlock the screen, access Private Space, or open the apps locked by Private Space. Your phone can automatically turn on the screen and recognize your face to unlock the screen each time you raise your phone.

## Under-Display Fingerprint Identification

With the under-display fingerprint sensor you can register up to 5 fingerprints and use them to unlock the phone, access Private Space, or open a bound app when the screen is off or locked.

## Camera Features

- **Multi-camera:** Use multiple cameras to capture photos or videos at the same time.
- **8K video and 64M photo:** Capture 8K videos and photos with resolution up to 64M.
- **VLOG:** Use templates and follow the instructions to record one or several video clips. The phone will automatically produce a vlog clip with background music, ready for sharing.
- **Wide-angle camera:** Take photos or record videos with a wider vision range.

- **Macro camera:** Shoot close-ups of the subjects, such as flowers, insects, and small items.
- **AI scene recognition:** AI scene recognition can automatically adjust the colour and lighting settings to match the scene or subject. For example, if you are taking a picture of flowers, it will choose the best colour for flowers and the picture will be more vivid.
- **Refocus:** Use portrait mode to capture photos of people and you can adjust the focus and depth later.
- **Moon mode:** Capture realistic photos of the moon.

## Private Space

Private Space allows you to encrypt your files, lock your apps and manage your account passwords. To access Private Space, you need to draw a pattern, enter a password, or use your registered fingerprint or face.

## Phone Switch

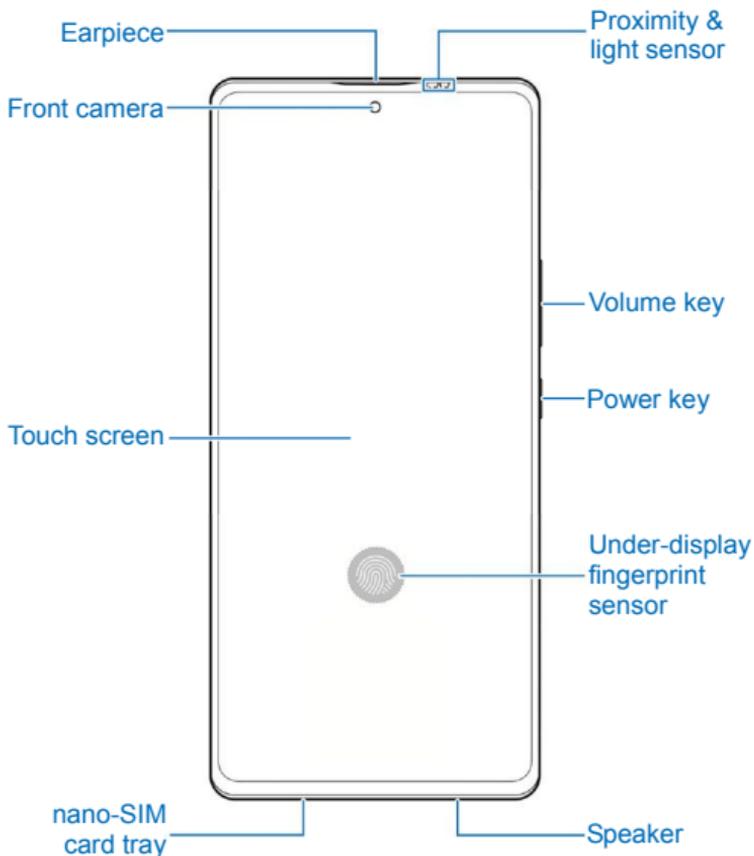
You can use Phone Switch to easily transfer data such as contacts, messages, pictures, audio, videos, etc. from your old Android phone to the new one. You need to install Phone Switch on both phones first.

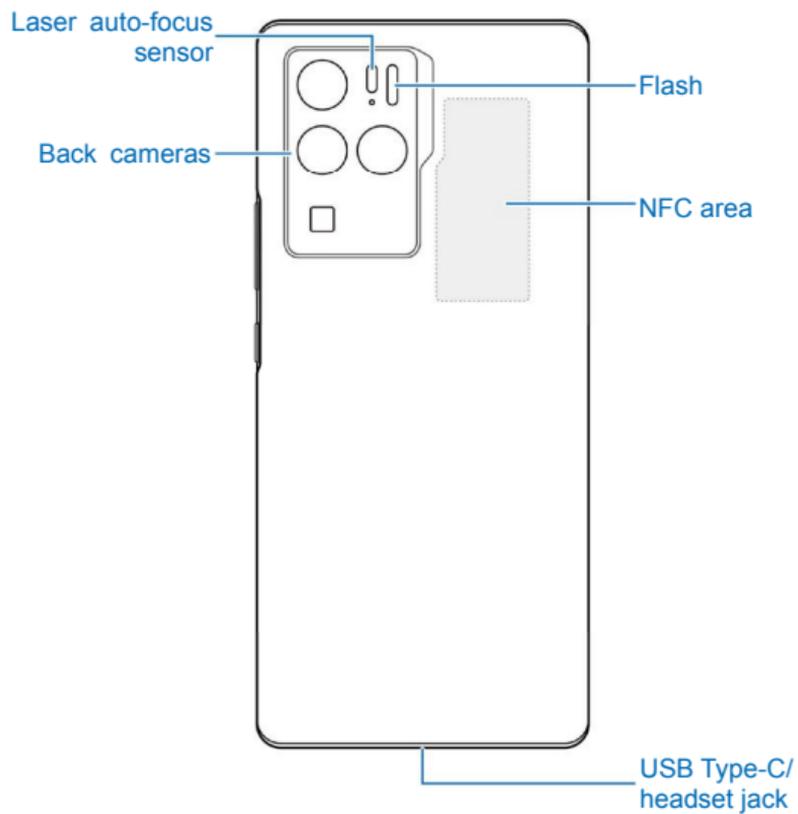
## Nearby Share

You can use Bluetooth or Wi-Fi to share things like photos, videos, documents, and links with other devices near your phone.

# Getting Started

## Getting to Know Your Phone





## Knowing the Keys

Key	Function
Power key	<ul style="list-style-type: none"><li>• Press and hold to power off or restart.</li><li>• Press to turn off or on the screen display.</li></ul>
Volume key	Press or hold either end of the key to turn the volume up or down.

### NOTES:

- You can also press and hold the **Power** key to wake up the Google Assistant. See “Wake up Google assistant” in [Features](#).
- You can use virtual keys or gestures to navigate your phone. See [Setting the Navigation Style](#).

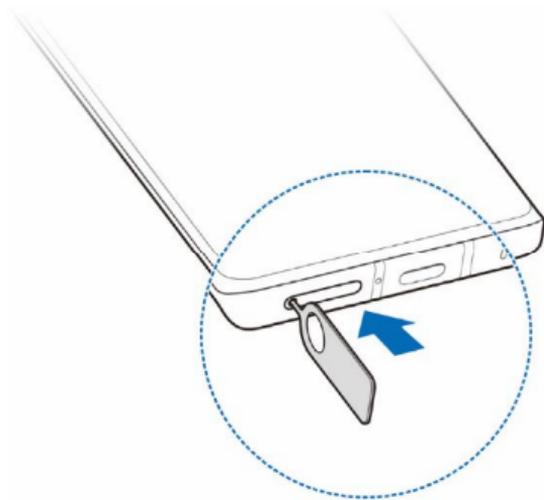
## Setting Up Your Phone

The nano-SIM card(s) can be installed or removed while the phone is turned on.

### WARNING!

To avoid damage to the phone, do not use any other kind of SIM cards, or any non-standard nano-SIM card cut from a SIM card. You can get a standard nano-SIM card from your service provider.

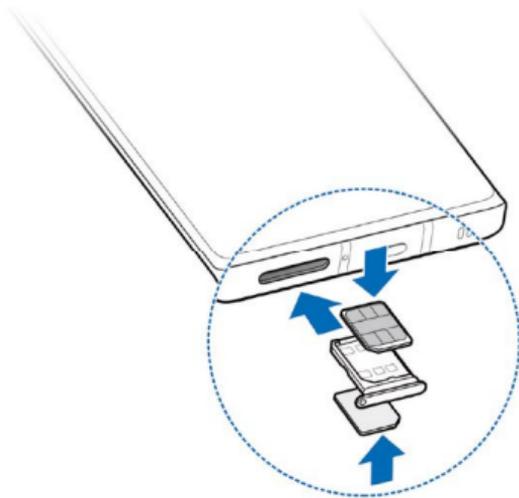
1. Insert the tip of the tray eject tool into the hole on the card tray.



**!** **CAUTION:**

Never replace the included tray eject tool with sharp objects. Ensure that the tray eject tool is perpendicular to the hole. Otherwise, the phone may be damaged.

2. Pull out the card tray and install the nano-SIM card(s) into the card slot(s) as shown. Carefully slide the tray back into place.



 **NOTE:**

Both nano-SIM card slots support 5G, 4G, 3G, and 2G network, and either card can be used for mobile data.

## Charging the Phone

Your phone's battery should have enough power for the phone to turn on, find a signal, and make a few calls. You should fully charge the battery as soon as possible.

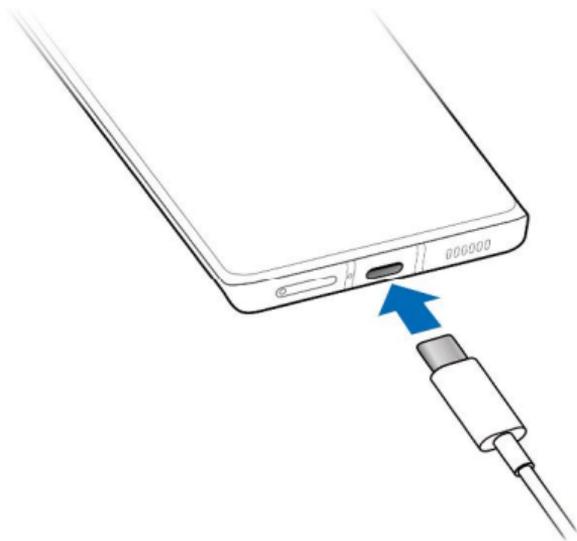
 **WARNING!**

Use only ZTE-approved chargers and USB Type-C cables. The use of unapproved accessories could damage your phone or cause the battery to explode.

 **WARNING!**

**Do not remove the back cover. The battery is not removable. Removal may cause fire or explosion.**

1. Connect the adapter to the charging jack. Do not force the connector into the jack.



2. Connect the charger to a standard AC power outlet. If the phone is on, you'll see a charging icon such as  or  appear on the status bar.

3. Disconnect the charger when the battery is fully charged.

 **NOTE:**

If the battery is extremely low, you may be unable to power on the phone even when it is being charged. In this case, try again after charging the phone for at least 20 minutes. Contact the customer service if you still cannot power on the phone after prolonged charging.

## Powering On/Off

- Press and hold the **Power** key to turn on your phone.
- To power off, press and hold the **Power** key until the options menu appears and then touch  > .

 **NOTE:**

If the screen freezes or takes too long to respond, try pressing and holding the **Power** key for over 10 seconds to restart the phone.

## Setting Up for the First Time

When you first power on your phone after you purchase it or reset it to factory settings, you need to do some settings before using it.

Select the language and follow the on-screen prompts to set up your phone.

# Locking/Unlocking the Screen and Keys

Your phone allows you to quickly lock the screen and keys (put the phone to sleep mode) when not in use and to turn the screen back on and unlock it when you need it.

## To lock the screen and keys:

To quickly turn the screen off and lock the keys, press the **Power** key.

### **NOTE:**

To save battery power, the phone automatically turns off the screen after some time of inactivity. You will still be able to receive messages and calls while the phone screen is off.

## To unlock the screen and keys:

1. Press the **Power** key to turn the screen on.
2. Swipe on the screen.

### **NOTE:**

If you have set a face verification, a fingerprint, an unlock pattern, a PIN or a password for your phone (see [Using Face Recognition](#), [Using Your Fingerprint](#) and [Protecting Your Phone With Screen Locks](#)), you'll need to use your face or fingerprint, draw the pattern, or enter the PIN/password to unlock your screen.

## Getting to Know the Home Screen

Your home screen is extendable, providing more space for apps, widgets, or folders. Simply swipe left or right on the home screen to see the extended panels. You can also add or remove home screen panels, or set the main home screen panel.



### **NOTE:**

Swipe right on the left-most panel to use the Google app.

### **To add a new home screen panel:**

Touch and hold an item such as an app or a folder on the home screen and drag it to the right edge of the screen to create a new home screen panel and put the item on it.

### **To delete a home screen panel:**

Touch and hold the shortcuts, folders, and widgets on the panel and select **Delete**. The empty panel is then deleted automatically.

### **To set the main home screen panel:**

1. Touch and hold an empty area of the home screen. You can slide left or right to view the home screen panels.
2. Touch  at the top of a home screen panel to set it as the main home screen.

# Personalizing

## Selecting the Home Screen Mode

You can change the home screen mode by displaying all apps on the home screen or in the app list, or use a simple home screen layout.

1. Touch and hold an empty place on the home screen and touch **Settings**.
2. Touch **Home screen mode** and choose the home screen mode you like.
  - ▶ **Display Home screen and all apps:** You can swipe up on the home screen to open the app list and find all your apps.
  - ▶ **Display Home screen only:** All your apps are put on the home screen. Swipe left or right on the home screen to find them.
  - ▶ **Easy Home screen:** This mode adopts a simple home screen layout with larger icons and font size for easy navigation. You can swipe up on the home screen to open the app list and find all your apps.

### **NOTE:**

To organize apps quickly on the home screen, see [Organizing Home Screen Icons](#). When the home screen mode is set to **Display Home screen only**, you can hide apps on the home screen. See [Hiding Apps](#).

## Setting the Navigation Style

You can set the navigation style as virtual navigation or gesture navigation.

### Use Virtual Navigation

To enable virtual navigation:

1. Open **Settings** and touch **Features > System navigation**.
2. Select **Virtual navigation**.

 **NOTE:**

Touch  beside **Virtual navigation** to change the navigation key layout, or turn on or off the concealable navigation bar. To hide the navigation bar, switch off **Always show navigation bar** and touch  on the navigation bar. To display the navigation bar again, swipe up from the bottom of the screen.

To use virtual navigation:

- Touch  (the **Home** key) to return to the home screen from any application or screen.
- Touch and hold  to use the Google Assistant.
- Touch  (the **Back** key) to go to the previous screen.
- Touch  (the **Recent apps** key) to see recently used apps.
- Touch  twice to switch to the most recent application.

## Use Gesture Navigation

### To enable gesture navigation:

1. Open **Settings** and touch **Features > System navigation**.
2. Select **Gestures**.

### **NOTE:**

Touch  beside **Gestures** to set whether you can open the Google Assistant when using gesture navigation, enable the avoid mis-operation option, display or hide the bottom indicator, and adjust the back sensitivity of screen edges for gesture navigation.

### To use gesture navigation:

- Swipe up from the bottom of your screen to return to the home screen from any application or screen.
- Swipe up from the bottom of your screen to the middle and hold to see recently used apps.
- Swipe left or right along the bottom of your screen to switch among recently used apps.
- Swipe inside from the left or right edge of your screen to go to the previous screen.
- Swipe up from the bottom left or bottom right of your screen to activate the Google Assistant.

## Changing the System Language

1. Open **Settings** and touch **System and update > Languages & input > Languages**. The first language in the list is the default system language.
2. Touch **Add a language** and then the language you need. Select the regional variant of the language if prompted.
3. Touch and hold a language and move it to the top to switch to that language.

### **NOTE:**

To remove languages from the list, touch **⋮ > Remove** and select the languages you want to delete.

## Switching to Vibration or Silent Mode

You can set the phone to vibration or silent mode by using one of the following methods.

- Press the **Volume** key up or down and then touch the icon below the slider to switch the phone to vibration or silent mode or turn on the sound.
- Press the **Volume up** key and the **Power** key at the same time to switch to silent mode or vibration mode.

### **NOTE:**

You can select to switch to silent or vibration mode by opening **Settings > Sound and vibration > Switch to silent/vibrate** and choosing **Mute** or **Vibrate**.

- Swipe down from the status bar to open the notification panel and drag the panel downwards. Touch **Ring**, **Vibrate**, or **Silent** to switch the phone to vibration or silent mode or turn on the sound.
- Open **Settings** and touch **Sound and vibration > Sound mode**, and then select **Vibrate** or **Silent** to switch to vibration or silent mode.

## Using Do Not Disturb Mode

You can limit interruptions with Do Not Disturb mode. This mode can mute sound, stop vibration, and block visual disturbances. You can pick what to block and what to allow.

### Turn On or Off Do Not Disturb Mode

1. Open **Settings** and touch **Sound and vibration > Do Not Disturb**.
2. Touch **Turn on now** or **Turn off now**.

### Set the Exceptions for Do Not Disturb Mode

1. Open **Settings** and touch **Sound and vibration > Do Not Disturb**.
2. Select the following options and choose what to allow.
  - ▶ **People:** Allow calls, messages, or conversations.
  - ▶ **Apps:** Choose which apps can send you notifications.
  - ▶ **Alarms & other interruptions:** Allow alarms, media sounds, touch sounds, reminders, or calendar events.

## Set an Automatic Schedule

You can set automatic schedules to activate Do Not Disturb mode for specific times or events.

1. Open **Settings** and touch **Sound and vibration > Do Not Disturb > Schedules**.
2. Touch an existing schedule to turn it on or off, or touch  next to the schedule to customize it.  
- or -  
Touch **Add more** to create your own schedules.

## Set How Long Do Not Disturb Mode Lasts

1. Open **Settings** and touch **Sound and vibration > Do Not Disturb > Duration for Quick Settings**.
2. Set how long Do Not Disturb mode will stay on when you turn it on.

## Choose Settings for Hidden Notifications

1. Open **Settings** and touch **Sound and vibration > Do Not Disturb > Display options for hidden notifications**.
2. Set notification behaviour in Do Not Disturb mode. You can block sound or visuals from notifications, or customize more restrictions.

## Choosing Your Wallpaper

You can set the wallpaper for the home screen or lock screen.

1. Touch and hold an empty place on the home screen and then touch **Wallpaper**.
2. Select a pre-set wallpaper, or touch **GALLERY** to select a picture and pan and zoom on it to select the area for the wallpaper.
3. Touch **SET AS** and choose where the wallpaper should be used.

### **NOTE:**

Alternatively, you can open **Settings** and touch **Home screen & lock screen > Wallpapers** to set the wallpaper.

## Using ZTE Locker

ZTE Locker allows you to switch the lock screen wallpapers automatically.

1. Open **Settings** and touch **Home screen & lock screen > ZTE Locker**.
2. Turn on the switch at the top to enable ZTE Locker.
3. If necessary, choose to update the lock screen wallpapers over Wi-Fi only automatically and add more pictures from Photos as the lock screen wallpapers.

## Using Always-On Display

If the Always-on display feature is enabled, you can always view information, such as time and date, battery level and notification icons on the screen when the screen is turned off.

1. Open **Settings** and touch **Home screen & lock screen > Always-on display**.
2. Turn on the switch at the top to enable the Always-on display feature.
3. In the **Enable time settings** section, you can select to enable the Always-on display feature all the time or for 10 seconds, or customize a schedule for this feature.
4. If necessary, switch on **Auto-off when battery is low** to turn off this feature automatically when the battery is low.

### **NOTE:**

Touch **MORE STYLES** to select the information style you like.

## Setting Screen Refresh Rate

A higher screen refresh rate will help deliver a smoother visual experience, which may consume more battery power. Some apps may have compatibility issues with high refresh rate, so these apps will always run at a refresh rate of 60 Hz.

1. Open **Settings** and touch **Display > Screen refresh rate**.
2. Select **Auto**, **60Hz**, **90Hz**, **120Hz** or **144Hz** as you need.

## Using Dark Mode

When Dark mode is enabled, your phone will turn the screen to dark with white text on a black background, relieving eye irritation caused by screen glare at night.

1. Open **Settings** and touch **Display > Dark mode**.
2. Switch on **Turn on now** to enable Dark mode.

- or -

If you want to set a schedule when Dark mode will be turned on automatically, touch **Turn on automatically** to enable automatic Dark mode and select an option.



### **NOTE:**

Not all apps support Dark mode.

## Using Read Mode

When Read mode is enabled, your phone will automatically adjust screen colour, which makes it easier to look at your screen or read on the phone. You can add apps to this mode.

### **To enable Read mode for the entire phone:**

1. Open **Settings** and touch **Display > Read mode**.
2. Switch on **For entire device**.

### **To enable Read mode for certain apps:**

1. Open **Settings** and touch **Display > Read mode**.
2. Switch on **Custom apps** and ensure that **For entire device** is turned off.

3. Touch **Add apps to this mode**.
4. Select the apps you want to use in Read mode and touch **ADD**.

## Using Night Light

You can enable Night Light to tint the screen amber and reduce the intensity of bright colours for eye protection, or set a schedule when Night Light will be turned on.

1. Open **Settings** and touch **Display > Night Light**.
2. Switch on **Turn on now** to enable Night Light.  
- or -

If you want to set a schedule when Night Light will be turned on automatically, touch **Turn on automatically** to enable automatic Night Light and select an option.

3. Drag the sliders below **Intensity of filter** to adjust the eye protection effect when Night Light is on.

## Enabling Full-Screen Display

If an app cannot automatically adapt to display in full screen, you can switch on the full-screen display option to make it fit the screen.

Enabling full-screen display may cause the apps to be stretched improperly and some UI elements of the apps may disappear behind the front camera.

## To make an app adapt to display in full screen manually:

1. Open **Settings** and touch **Display > Full-screen display settings**.
2. Turn on the switch beside the app you need.

## Using One-Handed Mode

You can enable one-handed mode to comfortably operate your phone with one hand.

1. Open **Settings**, touch **Features > One-handed mode** and turn on the switch.



### NOTE:

The One-handed mode option is not available when gesture navigation is enabled.

2. Touch and hold  to enter one-handed mode. You can do the following.
  - ▶ Touch  or  to move the small screen to the right or left.
  - ▶ Drag  or  at the top corner of the small screen to resize the screen.
  - ▶ Touch the empty area outside the small screen to exit one-handed mode.

# Knowing the Basics

## Phone Status Icons

The status bar at the top of the home screen provides phone and service status icons on the right side. Below are some of the icons you may see.

	3G connected		No signal
	4G connected		Signal strength
	5G connected		Mobile data in use
	Vibration on		Airplane mode
	Silent mode on		Connected to a Wi-Fi® network
	Do Not Disturb mode on		Speaker on
	Battery low		Phone microphone off
	Battery full		Location service active
	Battery charging		Alarm set
	Wired headset connected		VoLTE on

## Notification Icons

The status bar at the top of the home screen provides notification icons on the left. Below are some of the icons you may see.

	New message(s) from the Messages app		New Wi-Fi network detected
	Missed call		USB connected
	Call in progress		Song playing
	Call on hold		

## Using Quick Settings

The Quick Settings make it convenient to view or change the most common settings for your phone.

Swipe down from the status bar and drag the notification panel downwards to open the Quick Settings panel.

### To turn on or off settings quickly:

1. Open the Quick Settings panel.
2. To turn on or off a setting, touch its tile. Touch and hold certain tiles to access more setting options. For example, touch and hold the Wi-Fi tile to open Wi-Fi settings.

## To customize the Quick Settings panel:

You can add, remove or rearrange the tiles on the Quick Settings panel.

1. Open the Quick Settings panel.
2. Touch  at the top and do one of the following.
  - ▶ Touch and hold a tile and drag it to the position you want.
  - ▶ Touch and hold a tile and drag it to the section below to hide it.
  - ▶ In the **Hold and drag to add shortcuts** section, drag a tile up to show it in the Quick Settings panel.

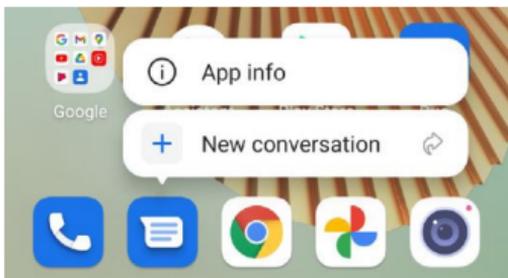
## Using App Shortcuts

The app shortcuts feature allows you to quickly access common app functions from the home screen and the app list screen.

### **NOTE:**

Not all apps support the app shortcuts feature.

1. Touch and hold an app on the home screen.
2. From the displayed menu, touch the function you want to use in the app.



### **NOTE:**

You can also touch and hold a function with the icon  next to it, and drag it to a home screen panel to create a shortcut of the function.

## Notification Dots

Some apps will display a dot when they have notifications. Touch and hold an app with a dot on the home screen to preview its notifications. You can swipe a notification left or right to dismiss it.



**To choose between badge numbers and dots:**

1. Open **Settings** and touch **Notification & status bar > Home screen badge app icon**.

 **NOTE:**

You can also access the menu from the home screen. Touch and hold an empty place on the home screen and touch **Settings > Home screen badge app icon**.

2. Touch **Show badge as > Number/Dot**.

**To turn on/off notification dots for all apps:**

1. Open **Settings** and touch **Notification & status bar > Home screen badge app icon**.
2. Touch the **On/Off** switch to turn it on or off.

**To turn on/off notification dots for specific apps:**

1. Open **Settings** and touch **Notification & status bar > Home screen badge app icon**.
2. Touch the **On/Off** switch to turn it on.
3. Open **Settings** and touch **Apps > SEE ALL [number] APPS**.
4. Touch the app you want to customize.
5. Touch **Notifications** and touch the **Allow notification dot** switch.

## Switching Apps

1. Open the recent apps list. The apps you've used recently are displayed in a series of cards. Swipe left and right to see all the cards.

 **NOTE:**

To view how to see recently used apps in different navigation styles, see [Setting the Navigation Style](#).

2. Touch a card to open that app.

 **NOTE:**

You can swipe a card up to remove it from the screen, which will free up running memory on the phone.

## Hiding Apps

When the home screen mode is set to **Display Home screen only** (see [Selecting the Home Screen Mode](#)), you can hide the apps on the home screen.

1. Spread on the home screen to access the Hidden apps screen.
2. Touch .
3. Select the apps you want to hide and touch **OK**.

 **NOTE:**

Spread on the home screen to find all hidden apps. You can touch and hold an app on the Hidden apps screen and touch **Unhide** to show it on the home screen again.

## Organizing Home Screen Icons

You can move or align several apps quickly on the home screen.

**To move several apps to another home screen panel quickly:**

1. Touch and hold an empty place on the home screen.
2. Find and check the apps you want to move, and then the home screen thumbnails are shown at the bottom.
3. Touch and hold any one of the apps and drag the apps to

another home screen thumbnail. The apps will be moved to that home screen panel.

### **To align the apps on a home screen panel automatically:**

1. Touch and hold an empty place on the home screen.
2. Check any app on the home screen to show the home screen thumbnails at the bottom.
3. Swipe left or right to select the home screen panel you want to organize.
4. Touch **Align with top** or **Align with bottom** to align all the apps on the home screen panel.

## Using Split-Screen Mode

You can work with two apps at the same time in split-screen mode.

### **NOTE:**

Some apps may not support split-screen mode.

1. Open the first app you want to use and then open the recent apps list.
2. Find that app card and touch  at its top.
3. Return to the home screen or open the app list to select the second app.

To exit split-screen mode, drag the border separating the two apps to the top or bottom of the screen.

# Security

## Protecting Your Phone With Screen Locks

You can protect your phone by creating a screen lock. When it is enabled, you need to swipe up on the screen, draw a pattern or enter a numeric PIN or password to unlock the phone's screen and keys.

1. Open **Settings** and touch **Password and security > Screen lock**.
2. Touch **None, Swipe, Pattern, PIN** or **Complex password**.
  - ▶ Touch **None** to disable the screen lock.
  - ▶ Touch **Swipe** to enable screen lock and allow unlocking with a “swipe” gesture. You can unlock the screen by touching the display and sliding up.
  - ▶ Touch **Pattern** to create a pattern that you must draw to unlock the screen.
  - ▶ Touch **PIN** or **Complex password** to set a numeric PIN or a password that you must enter to unlock the screen.

### CAUTION:

Remember the pattern, PIN or password you set. Otherwise, you will have to contact the customer service to reflash the phone software to use your phone, and all data in your phone will be erased.

## Using Your Fingerprint

With the under-display fingerprint sensor you can register up to 5 fingerprints and use them to unlock the phone, access Private Space and apps locked by Private Space, or open a bound app when the screen is off or locked.

### **NOTES:**

- The fingerprint feature is usable only when a screen lock (**Pattern**, **PIN**, or **Complex password**) is enabled. When the screen lock is reset to **None** or **Swipe**, all registered fingerprints are erased.
- If you restart your phone, you need to enter the screen lock pattern, PIN or password you set to unlock the screen for the first time.

## Register a Fingerprint

1. Open **Settings** and touch **Password and security > Fingerprint**.
2. Enter the screen lock pattern, PIN or password you set. If you haven't set a screen lock, follow the prompts to set it.
3. Touch **REGISTER** or **Add fingerprint**.
4. Follow the prompts to record the centre and the edges of a finger.
5. Touch **OK**.

### **NOTE:**

Touch an existing fingerprint record to rename or delete it.

## Set Fingerprint Functions

1. Open **Settings** and touch **Password and security > Fingerprint**.
2. Enter the screen lock pattern, PIN or password you set.
3. You can set the following options.
  - ▶ **Unlock your phone:** Unlock the phone with a registered fingerprint when the screen is off or locked.
  - ▶ **Show fingerprint icon:** Show a fingerprint icon on the screen if you touch the screen or lift your phone while the screen is off.
  - ▶ **Fingerprint animation style:** Select the animation style you like for fingerprint unlocking.
  - ▶ **Access Private Space:** When this feature is enabled, you can access Private Space and apps locked by Private Space with a registered fingerprint. See [Private Space](#).
  - ▶ **Simple touch:** When the screen is off or locked, you can quickly open an app with a registered fingerprint by holding on the fingerprint icon and then swiping towards the shortcut icon of the app.

## Using Face Recognition

You can use face recognition to unlock the screen, access Private Space, or open the apps locked by Private Space.

To improve security of your phone, a high-level security option of face recognition is enabled by default (which means that if the screen lock pattern, PIN or password you set is not used for 24 hours, you will need to enter the pattern, PIN or password for

authentication). You can go to the security settings of face recognition, and change the security level to normal (which means that you will need to enter the screen lock pattern, PIN or password every 72 hours), and this may lower the phone security.

#### **NOTES:**

- The security strength of face recognition is lower than that of PIN, password, pattern or fingerprint.
- If you restart your phone, you need to enter the screen lock pattern, PIN or password you set to unlock the screen for the first time.

## **Create a Face**

1. Open **Settings** and touch **Password and security > Face recognition**.
2. Enter the screen lock pattern, PIN or password you set. If you have not set a screen lock, choose one backup screen lock method to set the screen lock pattern, PIN or password.
3. Read the disclaimer for face recognition and touch **ACCEPT**.
4. Check or uncheck **Turn on Raise to wake to improve user experience of face unlock**. If this option is enabled, your phone will turn on the screen and recognize your face to unlock the screen automatically each time you raise your phone and hold it to your face.
5. Touch **CREATE NOW** and follow the prompts to register your face.

## Use Face Recognition to Unlock the Screen

After creating your face, you can unlock the screen with face recognition.

1. Press the **Power** key to turn on the screen display if the screen is off.



### NOTE:

You can also pick up your phone to turn on the screen. To enable this feature, open **Settings** and touch **Features > Gesture & motion** and switch on **Raise to wake**.

2. Put your face in front of the screen. If the face recognition fails, touch 😊 to try again.

## Set Face Recognition Options

You can set what face recognition can do on your phone.

1. Open **Settings** and touch **Password and security > Face recognition**.
2. Enter the screen lock pattern, PIN or password you set.
3. You can set the following options.
  - ▶ **Unlock phone:** Select how the screen is unlocked with your face.
  - ▶ **Unlock apps:** If this option is enabled, you can use face recognition to open the apps locked by Private Space. See [Private Space](#).
  - ▶ **Access Private Space:** If this option is enabled, you can use face recognition to access Private Space.
  - ▶ **Do not recognize face when eyes are closed:** If this

option is enabled, you cannot use face recognition to unlock the phone when you close your eyes.

- ▶ **Screen brightness compensation:** If this option is enabled, the phone will increase screen brightness automatically in a dim light to help verify your face.
- ▶ **Delete facial data:** Delete your recorded face data.
- ▶ **Security settings:** Change the security level to high or normal. The high security level is set by default.

## Protecting Your Phone With App Pinning

You can pin an app's screen to keep it in view until you unpin it. This feature can be used, for example, to let a trusted friend play a specific game.

### **NOTE:**

When an app is pinned, the pinned app may open other apps and your personal data may be accessible.

## Turn On App Pinning

1. Open **Settings** and touch **Password and security > App pinning**.
2. Touch the **On/Off** switch.
3. Read the on-screen prompts and touch **OK**.
4. To add security for unpinning, switch on **Lock device when unpinning** and set up a screen lock with or without fingerprint as prompted, or switch on **Ask for unlock pattern before**

**unpinning, Ask for PIN before unpinning, or Ask for password before unpinning** if you've set a screen lock already.

## Pin an App

1. Ensure that app pinning is turned on.
2. Open the recent apps list. If the app you want to keep in view is not in recent apps, open it first.
3. Swipe left or right to find the app card. Then touch  at the top of the card and select **Pin**.

## Unpin the App

1. To unpin the app and return to normal use, touch and hold both  and  for virtual navigation; swipe up from the bottom of the screen and hold for a while for gesture navigation.
2. If screen lock is enabled for app pinning, swipe up on the lock screen and draw the pattern or enter the PIN/password. You can also unlock the screen with your fingerprint or face if you have registered it on the phone.

# Connecting to Networks

## Connecting to Mobile Networks

### Manage the nano-SIM Cards

When two nano-SIM cards are installed, you can enable/disable one or both of the cards, select the card for mobile data, or choose the default card for calls.

#### To enable or disable a card:

1. Open **Settings** and touch **Mobile network > SIM cards**.
2. In the Dual SIM settings section, touch the switch on the right to enable or disable a card.

#### To turn on/off mobile data:

1. Open **Settings** and touch **Mobile network > SIM cards**.
2. In the Data/Call settings section, touch one of the two **Mobile data** switches.

#### **NOTE:**

Switch on **Dual sim smart switch** if you want to use the other card for mobile data when the network status of the card you select for mobile data is poor.

#### To set the default card for calls:

1. Open **Settings** and touch **Mobile network > SIM cards**.
2. Touch **Default SIM for calling** to set the preferred SIM for outgoing calls.

## Control Mobile Data Use

1. Open **Settings** and touch **Mobile network > Mobile data**.
2. Touch the nano-SIM card name.
3. Touch the **Mobile data** switch to enable or disable mobile data use.

## Enable 5G

5G networks are only available in some countries and regions. For detailed information, please contact your mobile service provider.

1. Open **Settings** and touch **Mobile network > Mobile data**.
2. Touch the nano-SIM card name.
3. Switch on **Enable 5G**.

- or -

1. Open **Settings** and touch **Mobile network > Mobile data**.
2. Touch the nano-SIM card name.
3. Touch **Preferred network type** and select **5G/4G/3G/2G auto**.

## Use Adaptive 5G

When the Adaptive 5G feature is enabled, your phone will automatically switch between 5G and 4G networks to save battery power according to the app running status and mobile data speed.

1. Open **Settings** and touch **Mobile network > Mobile data**.
2. Touch the nano-SIM card name.

3. Touch **Adaptive 5G** and turn on the switch at the top.
4. You can also touch **Add Application** and add apps to the 5G preferred list, which will make them always connect to 5G networks when the phone screen is on and the apps are running in the foreground.



#### **NOTE:**

It's recommended to keep this feature turned on as it will not affect the use of 5G networks and the battery life will be significantly reduced if it is turned off.

## **Select Preferred Network Type**

1. Open **Settings** and touch **Mobile network > Mobile data**.
2. Touch the nano-SIM card name.
3. Touch **Preferred network type** and select the type of network you prefer the phone to connect to.

## **Set Access Point Names**

To connect to the Internet, you can use the default Access Point Names (APN). And if you want to add a new APN, please contact the service provider to get the necessary information.

1. Open **Settings** and touch **Mobile network > Mobile data**.
2. Touch the nano-SIM card name.
3. Touch **Access Point Names** and then touch **+**.
4. Touch each item to enter the information you get from your service provider.
5. Touch **⋮ > Save** to complete.

## **NOTE:**

To set the APN to default settings, touch  > **Reset to default**.

## Connecting to Wi-Fi

Wi-Fi is a wireless networking technology that can provide Internet access at distances of up to 100 meters, depending on the Wi-Fi router and your surroundings.

### **To turn Wi-Fi on and connect to a Wi-Fi network:**

1. Open **Settings** and touch **Wi-Fi**.
2. Slide the **Use Wi-Fi** switch to the on position to turn on Wi-Fi.
3. Touch a Wi-Fi network name to connect to it.
4. If the network is secured, enter the password and touch **CONNECT**, or touch  to scan the QR code of the password when it is available.

## **NOTES:**

- Your phone automatically connects to previously used Wi-Fi networks when they are in range.
- Your phone can automatically use mobile data network when the Wi-Fi signal is weak. To use this feature, switch on **Auto-switch to mobile network**. Additional charges may occur.
- Your phone can connect to dual Wi-Fi networks (2.4 GHz and 5 GHz) at the same time to let you enjoy stable and high-speed network access. To use this feature, touch **Dual Wi-Fi networks speedup** and turn on the switch, and then select the auxiliary Wi-Fi network.

# Connecting to Devices

## Connecting to Bluetooth Devices

Bluetooth is a short-range wireless communication technology. Phones or other devices with Bluetooth capabilities can exchange information wirelessly within a distance of a few meters. The Bluetooth devices must be paired before the communication is performed.

1. Open **Settings** and touch **Bluetooth**.
2. Turn on the switch at the top. Your phone automatically scans for and displays the IDs of all available Bluetooth devices in range.
3. Touch the device you want to pair with.
4. If necessary, confirm that the Bluetooth passkeys are the same between the two devices and touch **PAIR**. Alternatively, enter a Bluetooth passkey and touch **PAIR**.

Pairing is successfully completed when the other device accepts the connection or the same passkey is entered.



### **NOTE:**

The Bluetooth passkey may be fixed for certain devices, such as headsets and hands-free car kits. You can try entering 0000 or 1234 (the most common passkeys), or refer to the documents for that device.

## Connecting to Your Computer via USB

You can connect your phone to a computer with a USB cable and transfer music, pictures, and other files in both directions. Your phone stores these files in the phone storage.

If you are using USB tethering, you must turn that off before you can use USB to transfer files between your phone and computer.

### Connect Your Phone to a Computer via USB

1. Connect your phone to the computer with a USB cable.
2. Open the notification panel and touch **USB** () to open the **Use USB for** options menu.
3. Choose one of the following options.
  - ▶ **Charge only:** Charge your phone via USB.
  - ▶ **Install driver:** Install the driver needed for some USB connection modes (such as MTP). You only need to install the driver on the same PC once.

 **NOTE:**

You can also install the driver on PC by running the executable file in the new CD-ROM drive.

- ▶ **Media device MTP / Android Auto:** Transfer files on Windows® PC or Mac®.
- ▶ **Camera PTP:** Transfer photos or files if MTP is not supported by your computer.

## Disconnect Your Phone From the Computer

To disconnect the phone from the computer, simply unplug the USB cable when you're finished.

## Sharing Files With Nearby Devices

With Nearby Share, you can share photos, videos, and documents with nearby devices via Bluetooth or Wi-Fi.

### Turn Sharing On or Off

1. On your phone, make sure Bluetooth, Wi-Fi and Location are turned on. See [Connecting to Bluetooth Devices](#), [Connecting to Wi-Fi](#) and [Location](#).
2. Open **Settings** and touch **More connection settings > Advanced > Nearby Share**.
3. Touch the switch at the top to turn Nearby Share on or off.

### Share Content With Someone

1. Open the content, like a photo or webpage on your phone.
2. Find and touch the Share option and then select Nearby Share.
3. Touch **Turn on** if Nearby Share is switched off.
4. Hold your phone and your friend's device which supports the Nearby Share feature close to each other.



#### **NOTE:**

Make sure both devices are unlocked, and have Nearby Share, Wi-Fi, Bluetooth and location turned on.

5. If prompted, touch the Nearby Share notification on your friend's device to make that device visible to nearby devices.
6. On your phone, your friend's device name will appear and touch the device name to send the content.
7. Accept the sharing on your friend's device.

## Get Content From Someone

1. Ask your friend to follow the [“Share Content With Someone”](#) steps above.
2. You'll get a notification that someone is sharing content with you. Touch the notification if you haven't set your phone visible to nearby devices.



### NOTE:

Make sure both devices are unlocked, and have Nearby Share, Wi-Fi, Bluetooth and location turned on.

3. Touch **Accept** to get the content.

## Choose Who Can Share Content With You

1. Open **Settings** and touch **More connection settings > Advanced > Nearby Share**.
2. Touch **Device visibility** and choose one of the following options.
  - ▶ **All Contacts:** Your phone is visible to your contacts while your phone screen is on and unlocked. You need to sign in to your Google account first.
  - ▶ **Some Contacts:** Your phone is visible to nearby contacts you choose while your phone screen is on and unlocked.

You need to sign in to your Google account first.

- ▶ **Hidden:** Your phone is only visible while Nearby Share is turned on and you need to make your phone visible manually.

## Set Data Usage for Sharing

1. Open **Settings** and touch **More connected settings > Advanced > Nearby Share**.
2. Touch **Data** and choose one of the following options.
  - ▶ **Data:** Mobile data may be used for small files. Charges may apply.
  - ▶ **Wi-Fi only:** Never use mobile data to share.
  - ▶ **Without internet:** Files will always be shared offline.

## Using USB On-The-Go (OTG)

Your phone supports USB On-The-Go. You can connect the phone and a USB peripheral device (such as a USB flash drive, a USB mouse, or a USB keyboard) with an OTG adapter.

For example, when you connect the phone with a USB flash drive, you can browse the files on the flash drive; connect the phone with a USB mouse and you can navigate the phone with the mouse.

### **NOTE:**

To safely remove a connected USB storage device (such as a USB flash drive), open **Settings**, touch **Storage** and find the name of the device. Then touch  next to it.

## Exchanging Data via NFC

Near Field Communication (NFC) allows your phone to make contactless payment with NFC-enabled terminals when they touch each other or in close proximity.

Depending on the applications that you have installed on your phone, you might be able to use your phone as a transit pass or as an access pass. To use this feature, tap the back of your phone against an NFC-enabled access point, subject to applicable terms and conditions from the particular vendor.

### To turn on and use NFC:

1. Open **Settings** and touch **More connection settings**.
2. Slide the **NFC** switch to the on position.
3. If you want to use NFC for contactless payment. Touch **Contactless payments** to select the payment app you have installed that supports NFC.

# Sharing Your Mobile Data Connection Through Tethering

You can use tethering to share your phone's Internet connection with a computer that connects to your phone via USB cable or by Bluetooth.

 **NOTE:**

You cannot transfer files between your phone and the computer when the phone is USB tethered.

1. Open **Settings** and touch **Mobile network > Hotspot & tethering**.
2. Switch on **USB tethering** or **Bluetooth tethering**.
  - ▶ For USB tethering, connect your phone to the computer with the supplied USB cable before touching **USB tethering**.
  - ▶ For Bluetooth tethering, pair your phone with the computer via Bluetooth and set the computer to obtain its network connection via Bluetooth.

 **NOTE:**

To stop sharing your data connection, switch off **USB tethering** or **Bluetooth tethering**.

# Phone Calls

## Placing Calls

### Place a Call by Dialing

1. From the home screen, touch .
2. Touch  to open the dialer and enter the phone number or the contact name with the dialpad. Touch  to delete incorrect digits.

 **NOTE:**

As you enter the phone number or the contact name, your phone searches for matching information in your contacts. If you see the number and contact you want to call, touch it to get call, messaging, and history options.

3. Touch  below the keypad to dial a voice call.

 **NOTE:**

To make an international call, touch and hold the **0** key to enter the plus (+) symbol. Next, enter the country code, followed by the city/area code and then the phone number.

### Place a Call From the Call History

The call history is a list of all the calls you've placed, received, or missed. It provides a convenient way to redial a number, return a call, or add a number to your contacts.

1. From the home screen, touch  >  (in the top search field) > **Call history**.

 **NOTE:**

Touch **Missed** to find all missed calls.

2. Touch  beside a listing to call back.

 **NOTE:**

You can also touch the contact icon in front of the listing to get more options for calling and texting.

## Call Your Contacts

1. From the home screen, touch  > the  tab to view all your contacts.
2. Touch a contact and then touch the number to place a voice call, or touch  to start a Google Duo video call.

## Answering or Rejecting Calls

### Answer a Call

When you receive a phone call, slide  up to answer the call.

- or -

If the screen is unlocked, touch **ANSWER**.

## NOTE:

To silence the ringer before answering the call, press either end of the **Volume** key.

## Reject a Call

When you receive a phone call, slide  down to reject the call. You can also touch **Reply** to reject the call and select a pre-set text message or edit one to send to the caller.

- or -

If the screen is unlocked, touch **DECLINE** to reject the call. You can also touch the caller number or name, and then touch **Reply** to reject the call and select a pre-set text message or edit one to send to the caller.

## Using Options During a Call

During a call, you will see a number of on-screen options. Touch an option to select it.

- Touch  to turn on or off the speaker.
- Touch  to mute or unmute your microphone.
- Touch  to switch to the keypad when you need to enter a code (for example, the PIN for your voicemail or bank account) during the call.
- Touch  to put the call on hold.

- Touch  to make another call separately from the first call, which is put on hold.
- Touch  to merge the separate calls into a single conference call.
- Touch  to put the caller you are speaking to on hold, and switch to the other call that has been put on hold.
- Touch  to end the current call.

 **WARNING!**

Because of higher volume levels, do not place the phone near your ear during speakerphone use.

## Managing Multi-party Calls

When the call waiting and conference call features are available, you can switch between two calls or set up a conference call.

 **NOTE:**

The call waiting and conference call features need network support and may result in additional charges. Please contact your service provider for more information.

## Switch Between Current Calls

When you're on a call and another call comes in, your phone screen informs you and displays the caller ID.

## To respond to an incoming call while you're on a call:

- Slide  up to answer the call. This puts the first caller on hold and answers the second call.
- Touch **Answer & end ongoing call** to answer the call. This ends the first call and answers the second call.
- Slide  down to reject the second call.
- Touch **Reply** to reject the second call and select a pre-set text message or edit one to send to the caller.

## To switch between two calls:

Touch .

## Set Up a Conference Call

With this feature, you can talk to multiple people at the same time.

1. Place the first call.
2. Once you have established the connection, answer an incoming call or touch  and dial the second number. This puts the first caller on hold.
3. When you're connected to the second party, touch .
4. If you need to add more parties, have them call you or touch  to dial the number, and touch  to merge the calls one by one.

### **NOTE:**

The number of calls you can merge depends on your network. Contact your mobile service provider for more information.

If one of the people you called hangs up during the call, you and the remaining callers stay connected. If you initiated the call and are the first to hang up, all callers are disconnected.

To end the conference call, touch .

## Contacts

You can add contacts on your phone and synchronize them with the contacts in your Google account.

To see your contacts, touch **Google** (folder) > **Contacts** from the home screen.

## Adding a New Contact

1. Open **Contacts**.
2. Touch  to add a new contact.
3. Enter the contact name, phone numbers, email addresses, and other information. Touch **More fields** if necessary.
4. Touch **Save**.

## Importing and Exporting Contacts

You can import contacts from your nano-SIM card, the phone storage, or external OTG storage, or export contacts to the phone or OTG storage. This is especially useful when you need to transfer contacts between different devices.

### Import Contacts From the nano-SIM Card

1. Open **Contacts**.
2. Touch  > **Settings** > **Import** > **SIM [card name]** > **OK**.

 **NOTE:**

If only one nano-SIM card is installed or enabled, touch  > **Settings > Import > SIM card > OK.**

3. Check the contacts you need and then touch **Import**.

## Import Contacts From the Phone or External Storage

1. Open **Contacts**.
2. Touch  > **Settings > Import**.
3. Select **.vcf file** and touch **OK**.
4. Touch  and find the vCard file(s) on the phone storage or external OTG storage and touch one to import contacts.

## Export Contacts to the Phone or External Storage

1. Open **Contacts**.
2. Touch  > **Settings > Export**.
3. Touch  and select the directory in which the vCard file will be saved.
4. Edit the file name if needed and touch **SAVE** to create the file.

## Setting a Ringtone for a Contact

Assign a special ringtone to a contact, so you know who is calling when you hear the ringtone.

1. Open **Contacts**.
2. Touch a contact you want to set a ringtone for and then touch  > **Set ringtone**.
3. Select the ringtone or music file you like and touch **OK**.

## Setting Call Blocking

The call blocking feature allows you to block calls and messages from certain numbers.

1. Open **Contacts**.
2. Touch  > **Settings** > **Blocked numbers**.
3. Touch **Add a number**.
4. Enter a phone number or touch  to select a number from the contact list.
5. Touch **Block**.

### **NOTES:**

- You can also block calls from unidentified callers by switching on **Unknown** in the Blocked numbers screen.
- To unblock a number, touch  next to the number and touch **Unblock**.

# Messages

You can use Messages to exchange text messages (SMS), multimedia messages (MMS), and chat messages.

## Sending a Message

1. From the home screen, touch .
2. Touch **Start chat**.
3. Add recipients by one of the following ways.
  - ▶ Manually enter the recipient's number or contact name. (You can touch  to enter numbers with a dialpad.) If the phone presents a few suggestions, touch the one you want to add.
  - ▶ Select a recipient from your contact list.
  - ▶ To add more recipients for a group conversation, touch  to choose the recipients and then touch **Next**. You can edit the group name if necessary.
4. Touch the text box and enter the message text.
5. If you want to send a multimedia message, touch  to select existing photos/videos or shoot new ones and add them to the message, or touch  to add location, voice recordings or files to the message.
6. For a multimedia message, touch and hold  to mark the message as urgent or add a message subject.

7. If two nano-SIM cards are available, you can also touch and hold  to choose the card for sending this message.
8. Touch .

### **NOTES:**

- If you add two or more recipients, the message may be sent as a group MMS where everyone can reply and see each other's messages. For group message setting, touch  > **Settings** > **[nano-SIM card name]** > **Group messaging** (when two nano-SIMs are installed) or  > **Settings** > **Advanced** > **Group messaging** (when only one nano-SIM card is installed) from the Messages screen.
- You can also include email addresses as recipients for a multimedia message.
- Do not add any attachment if you want to send a text message. Otherwise you may be charged for a multimedia message.

## Message Options

On the Messages screen, touch and hold a thread and the following options are available.

- Touch  to archive the thread. You can touch  > **Archived** from the Messages screen to find all archived messages.
- Touch  > **Delete** to delete the thread.

- Touch  to add the new number in the thread to your contacts.
- Touch  > **OK** to block the contact or number in the thread, and the thread will be moved to “Spam & blocked.” You can touch  > **Spam & blocked** from the Messages screen to find all blocked messages.



**NOTE:**

You can touch and hold a thread and touch more to select them, and then choose to archive or delete them.

# Camera

## Capturing a Photo

1. Open the **Camera** app.
2. Aim the camera at the subject and make any necessary adjustments. PHOTO (auto camera) mode is used by default.



Number	Function
1	Enable or disable AI scene recognition.
2	Change the HDR setting.
3	Change the flash setting.
4	View pictures and videos you have taken.
5	Capture a picture.
6	Switch between the front and back cameras.
7	Swipe left or right to switch among the default PHOTO mode, MULTI-CAMERA mode, VIDEO mode, NIGHT mode and PORTRAIT mode. Touch <b>MORE</b> to use other special camera modes: MANUAL, PANORAMA, MONO, MAGIC SHUTTER, LONG EXPO, WATERMARK, MACRO, 64M and MOON.
8	Zoom slider: Drag it up or down to zoom in or out; touch the dots to switch to 0.5x zoom (the wide-angle camera), 1x zoom (the standard camera), 2x zoom (the portrait camera), 5x zoom (the periscope camera), or 60x zoom.
9	Use auto-beauty mode or customize the personal options to beautify faces in the picture.

Number	Function
10	Change the aspect ratio, set the timer, show or hide grid for balanced photo composition, enable Live photo mode to shoot a dynamic photo, enable or disable the level guide, or change more camera settings.
11	Apply a filter.



### **WARNING!**

Keep a safe distance when using the flash. Do not point the flash towards the eyes of people or animals.



### **NOTE:**

You can spread or pinch on the screen to zoom in or out before taking pictures.

3. Touch the area where you want the camera to focus, or leave the camera to autofocus on the centre of the image.



### **NOTE:**

You cannot touch the viewfinder screen to focus when the wide-angle camera is in use.



### **NOTE:**

In auto camera mode, when you touch the screen to focus and the exposure icon  appears beside the focal point, you can drag  up or down to adjust the exposure. Touch and hold the focal point to lock the focus (not available for the wide-angle camera) and exposure.

4. Lightly touch .

 **NOTES:**

- You can quickly open the camera or take a snapshot by pressing the **Power** key twice quickly. To use this feature, touch  on the camera screen and touch **More Setting > Double tap Power key**.
- You can also touch and hold  to take burst shots or record a video clip. To use this feature, touch  on the camera screen and select **More Setting > Long press shutter > Video/Burst**.

## Recording a Video

You can record normal video clips in standard video mode, or choose other special video modes, such as VLOG, HDR, MOVIE MODE, SLOW MOTION and TIMELAPSE. Your phone supports up to 8K resolution and 30 FPS or 60 FPS for video recording in standard video mode. 60 FPS is available for 4K resolution and below.

1. Open the **Camera** app.
2. Touch **VIDEO** to switch to standard video mode.

 **NOTE:**

Touch **VIDEO** again to select other video modes. See [Using Other Camera Modes](#).

3. Aim the camera at the subject and you can make the following adjustments.

- ▶ Touch /// to switch to 0.5x zoom (the wide-angle camera), 1x zoom (the standard camera), 2x zoom (the portrait camera), or 5x zoom (the periscope camera).
  - ▶ Touch  to adjust the white balance.
  - ▶ Touch  and then touch an object in motion for auto-focus tracking in the viewfinder screen. This feature is not available for the wide-angle camera.
  - ▶ Touch  to change the flash setting.
  - ▶ If you record the video while holding the phone sideways, touch  and select **Front recording**, **Rear recording** or **Surround recording** to highlight the sound behind you, in front of you, or around you.
  - ▶ Touch  to use auto-beauty mode.
  - ▶ Touch  to add a filter.
  - ▶ Touch  to set the video quality and frame rate (FPS), show or hide grid for balanced video composition, or change more settings.
4. Touch  to start recording. You can touch  or  to pause or resume recording, or touch  to save the frame as a photo.
  5. Touch  to stop recording.

## NOTES:

- You can touch any area on the screen that you want the camcorder to focus on before and during recording (not available for the wide-angle camera).
- You can spread or pinch on the screen to zoom in or out before and during recording (not available for the wide-angle camera).
- When you touch the screen to focus and the exposure icon  appears beside the focal point, you can drag  up or down to adjust the exposure. Touch and hold the focal point to lock the focus (not available for the wide-angle camera) and exposure.

## Using AI Scene Recognition

AI scene recognition can automatically adjust the colour and lighting settings to match the scene or subject. For example, if you are taking a picture of flowers, it will choose the best colour for flowers and the picture will be more vivid.

1. Open the **Camera** app.
2. Highlight **AI** to enable AI scene recognition if it is turned off.
3. Aim the camera at the subject. A scene icon will appear depending on the subject detected.
4. Touch  to take the photo.

## NOTE:

AI scene recognition is only available in auto camera mode.

## Using MULTI-CAMERA Mode

In this mode, you can take pictures or record videos by using multiple cameras simultaneously.

### To take pictures in MULTI-CAMERA mode:

1. Open the **Camera** app.
2. Touch **MULTI-CAMERA**.
3. Touch the small windows below to switch among previews of 0.5x zoom, 1x zoom, or 5x zoom.
4. Touch  to take three pictures which are captured respectively by the wide-angle camera, standard camera, and periscope camera.

### To record videos in MULTI-CAMERA mode:

1. Open the **Camera** app.
2. Touch **MULTI-CAMERA** and then touch .
3. If you want to combine the videos captured by multiple cameras into one video clip, touch  at the top and switch on **Multiple Video Capture mode**. You can also switch off this option to save the videos separately.
4. Touch the preview windows to select two or three you need.
5. Touch **START SHOOTING**.

#### **NOTE:**

Before and during recording, you can change the layout of the preview windows. Touch  or  to change their

position. If you have selected two preview windows, you can touch  to enable split-screen or  to enable picture-in-picture. Touch  on a window to expand it to full screen.

6. Touch  to start recording.
7. Touch  to stop recording.

## Using PORTRAIT Mode

You can use PORTRAIT mode to focus on your subject with a depth effect and blur backgrounds. If a face is detected by the camera, you can also enable auto-beauty mode and add different portrait lighting effects.

1. Open the **Camera** app.
2. Touch **PORTRAIT**.
3. Aim the camera at the subject and you can make the following adjustments.
  - ▶ Touch  to enable auto AI framing and follow the on-screen instructions to help the camera focus on the subject.
  - ▶ Touch  to manage auto-beauty level.
  - ▶ Touch  and then select a portrait lighting effect for your photo.
  - ▶ Touch  and then adjust the slider to change the shutter aperture.

4. Touch  to take the photo.

 **NOTE:**

For a picture taken in PORTRAIT mode, you can open it in full screen, touch  > **Bokeh Refocus** or  > **Portrait lighting**, touch **Refocus** and then touch anywhere on the picture to refocus or adjust the blurriness, or touch **Lighting** to change the lighting effect if a face is detected in the picture. You need to touch  > **More Setting** and switch on **Record depth information** in PORTRAIT mode before taking pictures.

## Using Manual Camera Mode

You can use manual camera mode to adjust more camera options for your photo such as ISO, white balance, exposure, etc.

1. Open the **Camera** app.
2. Touch **MORE > MANUAL**.
3. Aim the camera at the subject and you can make the following adjustments.
  - ▶ Touch // to switch to 0.5x zoom (the wide-angle camera), 1x zoom (the standard camera), or 2x zoom (the portrait camera).
  - ▶ When you touch the screen to focus, a blue focus box appears. You can drag it to any area on the screen that you want to focus on. Touch and hold it to lock or unlock the focus.

- ▶ Drag the yellow circle to any area on the screen where you want the camera to meter exposure so as to adjust the photo brightness. Touch and hold the circle to lock or unlock exposure.
- ▶ Touch the camera option icons below and use the slider to adjust them, including shutter speed, ISO, overall exposure, white balance, interval for time lapse pictures, and focus.

4. Touch  to take the photo.

 **NOTE:**

When the wide-angle camera is in use, you cannot touch the viewfinder screen to focus or adjust the focus option.

## Using Macro Camera Mode

You can use the macro camera mode to shoot close-ups of the subjects, such as flowers, insects, and small items.

1. Open the **Camera** app.
2. Touch **MORE > MACRO**.
3. Keep the subject close to the camera.
4. Touch  to take the photo.

 **NOTE:**

You cannot touch the viewfinder screen to focus in this mode.

## Using Other Camera Modes

Your camera app offers other powerful and interesting camera modes. Touch **MORE** in the viewfinder screen to find them all.

- **NIGHT:** Capture pictures in low-light environment.
- **PANORAMA:** Capture panoramic photos either horizontally or vertically.
- **MONO:** Take a photo with only one colour visible. Touch a colour option, and then use the range slider to adjust the colour selection to achieve the desired effect. You can also replace the colour you reserved in the picture with another colour.
- **MAGIC SHUTTER:** Capture star trail in the night sky by allowing the shutter to stay open for a long time. Please use a tripod or keep your phone steady when capturing the photo.
- **LONG EXPO:** Capture flowing water, car trail, or light drawing with or without person in the picture. Please keep your phone steady when capturing the photo.
- **WATERMARK:** Add a watermark you like to your photo manually.
- **64M:** The picture resolution is set to 64M in this mode, so you can take high-quality pictures.



### **NOTE:**

You cannot zoom in or out on the screen in this mode.

- **MOON:** Put the moon in the frame as prompted on the screen to help capture realistic photos of the moon.

- **VLOG (VIDEO):** You can preview different vlog templates and choose the one you like, and then follow the instructions to record a video clip or several video clips which will be combined into one vlog with music. For some vlog templates, try not to move your phone during the recording and the camera will focus or zoom automatically.
- **HDR (VIDEO):** When recording a video in conditions where the backlight is strong or the contrast is sharp, you can use this mode to get more details and improve light and shadow effects in your video.
- **MOVIE MODE (VIDEO):** Take an ultra-wide screen video so as to have a cinematic effect. You can also enable the portrait effect to keep the person in the video in focus and the background blurred. To enable the portrait effect, touch the icon  at the top to change it to  before the recording.
- **SLOW MOTION (VIDEO):** Adjust the slow motion speed (FPS) and capture slow motion video clips. You can play back parts or all of the video in slow motion.
- **TIMELAPSE (VIDEO):** Record time lapse videos. It's recommended to use a tripod or hold your phone steady during the recording. You can touch  at the corner to adjust the recording speed.

 **NOTE:**

Some camera modes are only available for the back camera.

# Voice Recorder

**Voice Recorder** enables you to record and listen to voice memos.

## Recording a Voice Memo

1. Open **Voice Recorder**.
2. Touch  to select the audio format of the recording.
3. Touch  to start recording. During recording, you can do the following:
  - ▶ Touch  or  to pause or continue the recording.
  - ▶ Touch  or  to add a time tag or photo tag to the recording.
  - ▶ Touch an added time tag to attach a picture or add text.
4. Touch **DONE** to stop recording.
5. Edit the file name and touch **SAVE** to save the recording.

If you don't want to save the memo after recording it, touch **DELETE > DELETE** to delete it.

## Playing a Voice Memo

1. Touch  at the top right of the screen to see all recordings.
2. Touch the title of a memo to play it. During the playing, you

can touch  to change the playback speed, touch **View tag** to view all tags, touch  or  to add a time tag or photo tag, or touch and hold a tag to delete it.

## Trimming a Voice Memo

1. While playing a recording, touch  to open the editing screen.
2. Drag  or  to trim the recording. You can touch  to preview the trimmed recording.
3. Touch **TRIM**.
4. Edit the new file name and touch **SAVE**.

# Phone Switch

You can use Phone Switch to easily transfer data such as contacts, messages, pictures, audio, videos, etc. from your old Android phone to the new one. You need to install Phone Switch on both phones first.

## **NOTE:**

For detailed help information, open **Phone Switch** and touch  **> Help**.

### **To install the Phone Switch app on another phone:**

1. Open **Phone Switch**.
2. Touch **Share Phone Switch**.
3. Turn on Bluetooth on another phone.
4. Touch **SHARE** and then touch the phone name in the list to send the app installation file to that phone.
5. Install the Phone Switch app on that phone after the installation file has been received.

### **To transfer data from the old phone to the new one:**

1. Turn off the mobile data connection and enable the location service on both phones.
2. Open the Phone Switch app on the new phone and touch **NEW**. A QR code will be displayed on the screen.
3. Open the Phone Switch app on the old phone and touch **OLD**.

4. Use the old phone to scan the QR code on the new phone's screen to connect the two phones via Wi-Fi.



**NOTE:**

If the connection fails, touch **Unable to connect?** and follow the on-screen instructions to try again.

5. Check the data you need to transfer on the old phone and touch **START CHANGING**.
6. Wait until the data has been transferred and imported to the new phone. Touch **DONE**.

# Private Space

Private Space allows you to encrypt your files, lock your apps and manage your account passwords. To access Private Space, you need to draw a pattern, enter a password, or use your registered fingerprint or face.

## Opening Private Space for the First Time

When you use Private Space for the first time, you need to set a new lock pattern or password for Private Space.

1. Open **Private Space**.
2. Touch **SETUP PASSWORD**.
3. Draw and redraw a pattern that you must draw to access Private Space, or touch **Or set password** to set a password that you must enter to access Private Space.

 **NOTE:**

This pattern or password is for accessing Private Space only and can be different from the pattern or password for screen lock.

4. Select the security question and enter your answer, and then touch **DONE**.

 **NOTE:**

If you forget the pattern or password you set, you can reset it by entering the answer to the security question.

5. If you have registered a fingerprint in your phone, the phone will prompt you to use your fingerprint to access Private Space. Touch **OK** to confirm.

 **NOTE:**

You can also use face recognition to access Private Space. See [Set Face Recognition Options](#).

## Encrypting Pictures/Videos/Files

After the pictures, videos, and files are encrypted, they can be accessed only in Private Space.

1. Open **Private Space**.
2. Enter the lock pattern or password you set or use your registered fingerprint or face.
3. Touch **Pictures**, **Videos** or **Files**.
4. Touch **+** to add pictures, videos, or files from your phone storage. You can also take pictures or videos and encrypt them directly.

The added items will be moved into Private Space.

 **NOTE:**

To decrypt pictures, videos, or files, touch and hold an item and touch more to select them, and then touch  **> OK**.

## Locking Apps

After an app is locked, you need to enter the lock pattern, password or fingerprint you set before using that app. You can also use face recognition to open the locked apps. See [Set Face Recognition Options](#).

1. Open **Private Space**.
2. Enter the lock pattern or password you set or use your registered fingerprint or face.
3. Touch **App lock**.
4. Turn on the switches beside the apps you want to lock.

### **NOTE:**

Touch  on the App lock screen and touch **App lock** to turn on or off this feature, or touch **Lock mode** to set when the locked apps will be locked again after you open them.

## Using Password Book

1. Open **Private Space**.
2. Enter the lock pattern or password you set or use your registered fingerprint or face.
3. Touch **Password book**. You can add and manage your account description, user name, password and note in the password book.

## Setting Private Space

1. Open **Private Space**.
2. Enter the lock pattern or password you set or use your registered fingerprint or face.
3. Touch  and set the following options.

▶ **Password manager:**

- **Login type:** Select pattern or password as the login type to access Private Space and the locked apps.
- **Security question:** Edit your security question and answer.



**NOTE:**

If you forget the lock pattern or password, you can touch **Forgot password** on the screen and enter your answer to reset the pattern or password.

- **Pattern feedback:** Set whether the phone vibrates or whether the pattern is visible when you draw the lock pattern.
  - **Fingerprint access Private Space:** Set whether to use the fingerprint you set to access Private Space and the locked apps.
- ▶ **Private Space backup:** Back up Private Space data. If you forget the pattern or password of Private Space, you cannot restore the data.

- ▶ **Private Space restore:** Restore Private Space data.
- ▶ **Backup reminder notification:** Set whether to be notified to back up regularly when Private Space has new data.

# Settings

The **Settings** app contains most of the tools for customizing and configuring your phone.

## Wi-Fi

Open **Settings** and touch **Wi-Fi**. You can turn Wi-Fi on or off and configure your Wi-Fi connections. See [Connecting to Wi-Fi](#).

## Bluetooth

Open **Settings** and touch **Bluetooth**. You can turn Bluetooth on or off and configure your Bluetooth connections. See [Connecting to Bluetooth Devices](#).

## Mobile Network

### Airplane Mode

Open **Settings** and touch **Mobile network > Airplane mode** to turn airplane mode on or off. All the phone's radios that transmit voice or data are turned off when airplane mode is on.

### Hotspot & Tethering

Open **Settings** and touch **Mobile network > Hotspot & tethering** to share your phone's mobile data connection with

PCs or other devices. See [Sharing Your Mobile Data Connection Through Tethering](#).

## Mobile Data

Open **Settings** and touch **Mobile network > Mobile data** to control mobile data and data roaming, enable 5G, check and manage mobile data use, set network type, and set access point names and other network options. See [Connecting to Mobile Networks](#).

### NOTE:

The data usage is measured by your phone, and your carrier's data usage accounting may differ.

## SIM Cards

Open **Settings** and touch **Mobile network > SIM cards** to enable/disable installed nano-SIM cards or mobile data, or set the default card for calling when two cards are available.

## More Connection Settings

Open **Settings** and touch **More connection settings** to use the following features.

- **Cast:** Mirror your phone screen to a smart TV or TV box in the same Wi-Fi network.
- **NFC:** Turn on or off the NFC feature. See [Exchanging Data via NFC](#).

- **Contactless payments:** Manage contactless payment setting for apps using NFC for contactless payments.
- **VPN:** Set up and connect to virtual private networks.
- **Private DNS:** Turn Private DNS on or off, or change its settings. To get information from a website, your phone first asks where the website is. Private DNS is a way to help secure these questions and answers. We recommend keeping Private DNS turned on.
- **Printing (Advanced):** Use the default printing service or other printer plug-ins installed from the Google Play Store or your printer manufacturer for wireless printing.
- **Chromebook (Advanced):** Connect with your Chromebook device.
- **Nearby Share (Advanced):** Use Bluetooth or Wi-Fi to share files with other devices near your phone. You can share things like photos, videos, documents, and links. See [Sharing Files With Nearby Devices](#).
- **Android Auto (Advanced):** Connect to your vehicle and use your phone on the car's dashboard.

## Home Screen & Lock Screen

Open **Settings** and touch **Home screen & lock screen** to change the theme, set the wallpapers, configure the home screen settings, enable ZTE Locker, enable Always-on display, or configure lock screen settings.

## Notification & Status Bar

Open **Settings** and touch **Notification & status bar** to manage app notifications, status bar options, and advanced notification options.

## Display

Open **Settings** and touch **Display** to configure the display options, including brightness level, screen refresh rate, Dark mode, Read mode, Night Light, colour mode and colour temperature, full screen display settings, screen timeout, auto-rotate screen, text and display size, etc.

## Sound and Vibration

Open **Settings** and touch **Sound and vibration**. Adjust different types of volume, toggle sound mode (see [Switching to Vibration or Silent Mode](#)), set Do Not Disturb options (see [Using Do Not Disturb Mode](#)), set up ringtone and notification sound, use Headset Hi-Fi, set DTS sound effects, and set other sounds and vibrations.

## SyncMind

Open **Settings** and touch **SyncMind**. The following features are available.

- **5G smart communication:** You can check the network speed, signal quality, and signal strength of your phone, and

set the following enhancement options.

- ▶ **Dual Wi-Fi networks speedup:** Your phone can connect to dual Wi-Fi networks (2.4 GHz and 5 GHz) at the same time to let you enjoy stable and high-speed network access. See [Connecting to Wi-Fi](#).
- ▶ **Smart adaptive 5G:** When this feature is enabled, your phone will automatically switch between 5G and 4G networks to save battery power according to the app running status and mobile data speed. See [Use Adaptive 5G](#).
- **AI system engine:** Check the CPU and memory usage, ROM information, flash health index, and battery temperature, and view the introduction of AI system engine.

## Features

Open **Settings** and touch **Features**. The following features are available.

- **System navigation:** Set the navigation style as virtual navigation or gesture navigation. See [Setting the Navigation Style](#).
- **One-handed mode:** Only available when virtual navigation is in use. You can enable or disable one-handed mode. See [Using One-Handed Mode](#).
- **Z-POP:** While Z-POP is on, a floating bubble appears on the edge of the screen. You can drag the bubble to reveal navigation operations. Touch **Custom button** to customize the default and expanded buttons. Enable **Auto-move to**

**edge on full screen** to hide the floating bubble into the edge of the screen automatically when using an app in full screen.

- **Record screen:** Set sound source, video quality and the touch interaction option for screen recording.

 **NOTE:**

To record the screen and save it as a video, swipe down the status bar with two fingers and touch **Record screen** in the Quick Settings panel, touch // to mute the recording or change sound source, and then touch  to start recording and  or  to pause or stop.

- **Screen-edge mistouch prevention:** Adjust the width of edge touch area to prevent accidental touches on the screen edges.
- **Gesture & motion:** You can control the phone with special finger gestures or by moving the phone in different ways. Touch the switches to enable each function; touch each function to view how to use it or try it out.

 **NOTE:**

The use of phone cover/case may stop certain functions from working.

- **Scheduled power on/off:** Set the day and time when the phone automatically powers on or off.
- **Wake up Google assistant:** When this feature is enabled, you can wake up the Google Assistant by pressing and holding the **Power** key for about 0.5 seconds. To power off

or restart the phone, you need to press and hold the **Power** key for more than 3 seconds.

## Password and Security

Open **Settings** and touch **Password and security** to configure options that help keep your phone and data safe.

- **Screen lock:** Disable the screen lock or enable it with swipe, pattern, PIN, or password. See [Protecting Your Phone With Screen Locks](#).

Touch  beside **Screen lock** to set its options.

- **Fingerprint:** Set up to 5 fingerprints and enable them to unlock the phone, quickly open a selected app, or access Private Space. See [Using Your Fingerprint](#).
- **Face recognition:** Use face recognition to unlock the screen, access Private Space, or open the apps locked by Private Space. See [Using Face Recognition](#).
- **Google Play Protect:** Google Play Protect regularly checks your apps and phone for harmful behaviour and warns you about any detected potential harm.
- **Find My Device:** Use Find My Device to locate, lock, or wipe your lost device remotely. The lost device must be signed in to a Google account.
- **Security update:** Check for security update of your system.
- **Emergency information:** Edit your medical information and emergency contacts for first responders to read from your lock screen.

- **Smart Lock:** Keep the phone unlocked when connected to trusted devices, in trusted places, or unlocked when your phone is being carried on the body.

 **NOTE:**

You need to sign in to your Google account on the phone to use all the **Smart Lock** features.

- **Device admin apps:** View or deactivate apps you have authorized to be device administrators.
- **SIM card lock:**
  - ▶ **Lock SIM card:** Activate or deactivate the PIN lock to require the PIN before accessing the nano-SIM card.
  - ▶ **Change SIM PIN:** Change the PIN used to access the nano-SIM card.

 **NOTE:**

Put all your confidential passwords in a safe place for future use. If you enter the wrong SIM PIN more times than allowed, your nano-SIM card will be locked and you cannot access the mobile phone network. Contact your operator for a PIN Unlock Key (PUK) to restore the nano-SIM card.

- **Encryption & credentials:** Check the encryption status of your phone and set the credential storage options.
- **Trust agents:** View or deactivate trust agents.
- **App pinning:** Pin an app's screen to keep it in view until you unpin it. This feature can be used, for example, to let a trusted friend play a specific game. See [Protecting Your Phone With App Pinning](#).

# Apps

## App Info

Open **Settings** and touch **Apps**. View recently opened apps at the top or touch **SEE ALL [number] APPS** to see all apps installed on your phone and manage them. Touch an app to see its information and configure the available options.

## Screen Time

Open **Settings** and touch **Apps > Screen time** to find out how much time you spend on apps and set the total time per day that you can use an app. When you reach your limit, the app closes and its icon dims.

## Default Apps

Open **Settings** and touch **Apps > Default apps** to select the default app for web browsing, phone calling, messaging, etc. Touch **Opening links** to set Instant apps options, or touch an installed app to check its supported links and set whether to open the links in the app, and clear the app's defaults.

## Permission Manager

Open **Settings** and touch **Apps > Permission manager** to check what apps have been allowed to access certain permissions. You can also change the app permissions.

## **WARNING!**

Changing the app permissions may result in the app not working correctly or as originally intended.

## **Wireless Emergency Alerts**

Open **Settings** and touch **Apps > Wireless emergency alerts** to configure the emergency broadcast notifications.

## **Special App Access**

Open **Settings** and touch **Apps > Special app access** to set special access options of apps.

## **Battery**

Open **Settings** and touch **Battery** to view the battery level, enable different battery saving modes, check what has been using the battery, manage apps intelligently, or set more options to improve battery life.

## **Storage**

Open **Settings** and touch **Storage** to view the memory information of the internal phone storage. You can get a detailed breakdown of space usage by type.

When you connect a USB storage device (such as a USB flash) to your phone with an OTG adapter cable, you can view its storage status, unmount it, or erase all data on it. See [Using USB On-The-Go \(OTG\)](#).

## Location

Open **Settings** and touch **Location** to manage location services, which help your phone and apps determine your location. To use location-related applications, such as finding your location on Google Maps, you must have location services enabled on your phone.

## Privacy

Open **Settings** and touch **Privacy** to configure the privacy settings.

- **Permission manager:** Check what apps have been allowed to access certain permissions. You can also change the app permissions.



### **WARNING!**

Changing the app permissions may result in the app not working correctly or as originally intended.

- **Show passwords:** Display passwords as you enter them.
- **Notifications on lock screen:** Choose what notification contents will be shown on the lock screen.
- **Autofill service from Google:** Set the options of Autofill with Google. With a single touch, you can fill in passwords, addresses, credit cards, and other information saved to your Google account.

- **Advanced:** Set advanced options such as Google location history, activity controls, ads personalization, and usage & diagnostics.

## Users and Accounts

Open **Settings** and touch **Users and accounts** to add multiple users on your phone, or manage your accounts and synchronization. Touch **Add account** to sign in to or create accounts on your phone. Touch an account you have added to adjust its settings.

## Accessibility

Open **Settings** and touch **Accessibility** to configure accessibility options and services on your phone, such as using **Color correction** or **Text and display size** for users with sight problems.

## Digital Wellbeing & Parental Controls

Open **Settings** and touch **Digital Wellbeing & parental controls** to get information about how you spend time on your phone, like how often you unlock it and how long you use each app. You can use that information to improve your digital wellbeing. You can also help your child balance their screen time with the Family Link app.

- Touch **Show your data** to get information on how you spend time on your phone and apps.

- ▶ **Dashboard:** Check the screen time, number of notifications, and opened times of each app. You can set daily timers for the most-used apps to avoid indulgence (see [Screen Time](#).)
- ▶ **Bedtime mode:** Set a bedtime schedule to disconnect and avoid interruptions while you sleep.
- ▶ **Focus mode:** Select distracting apps and turn on focus mode to pause these apps when you need time to focus.
- ▶ **REDUCE INTERRUPTIONS:** Manage app notifications and Do Not Disturb settings to reduce interruptions from your important tasks.
- ▶ **Show icon in the app list:** Display or hide the Digital Wellbeing app in the app list.
- In the Parental controls section, touch **Set up parental controls** to add content restrictions and set other limits for your child with the Family Link app.

## Google

Open **Settings** and touch **Google** to manage settings for Google apps and services.

# System and Update

## System Update

Open **Settings** and touch **System and update > System update** to check for system updates and install them when they become available.

## Languages & Input

Open **Settings** and touch **System and update > Languages & input** to configure options related to system language, input methods and assistance, speech output as well as mouse/trackpad input.

## Date & Time

Open **Settings** and touch **System and update > Date & time** to set date, time, time zone, and the time format. You can also use network-provided data.

## Downloads

Open **Settings** and touch **System and update > Downloads** to view and manage your downloaded files.

## Backup

Open **Settings** and touch **System and update > Backup** to manage data backup options. To easily restore or switch phones at any time, you can sign in to your Google account and enable automatic backup to Google Drive of important data.

## Reset Options

Open **Settings** and touch **System and update > Reset options** to reset network settings, app preferences, or the phone to factory default status.

## About Phone

Open **Settings** and touch **About phone** to view phone status, nano-SIM card status, legal information, and other information.

# For Your Safety

## General Safety

	Don't make or receive phone calls while driving. Never text while driving.
	Keep your phone at least 5 mm away from your body while making calls.
	Small parts may cause choking.
	Your phone can produce a loud sound.
	To prevent possible hearing damage, do not listen at high volume levels for long periods. Exercise caution when holding your phone near your ear while the loudspeaker is in use.
	Avoid contact with anything magnetic.
	Keep away from pacemakers and other electronic medical devices.
	Turn off when asked to in hospitals and medical facilities.

	Turn off when told to on aircraft and at airports.
	Turn off when near explosive materials or liquids.
	Don't use at gas stations.
	Your phone may produce a bright or flashing light.
	Don't dispose of your phone in fire.
	Avoid extreme temperatures.
	Avoid contact with liquids. Keep your phone dry.
	Do not attempt to disassemble your phone.
	Only use approved accessories.
	For pluggable equipment, the socket-outlet shall be installed near the equipment and shall be easily accessible.
	Don't rely on your phone as a primary device for emergency communications.

# Radio Frequency (RF) Energy

## General Statement on RF Energy

Your phone contains a transmitter and a receiver. When it is ON, it receives and transmits RF energy. When you communicate with your phone, the system handling your call controls the power level at which your phone transmits.

## Specific Absorption Rate (SAR)

Your mobile device is a radio transmitter and receiver. It is designed not to exceed the limits for exposure to radio waves recommended by international guidelines. These guidelines were developed by the independent scientific organization ICNIRP and include safety margins designed to assure the protection of all persons, regardless of age and health.

The guidelines use a unit of measurement known as Specific Absorption Rate, or SAR. The SAR limit for mobile devices is 2 W/kg and the highest SAR value for this device when tested at the head was 0.963 W/kg\*, and when tested at the body was 1.570 W/kg\* with 5 mm distance. As mobile devices offer a range of functions, they can be used in other positions, such as on the body as described in this guide\*\*.

As SAR is measured utilizing the device's highest transmitting power, the actual SAR of this device while operating is typically below that indicated above. This is due to automatic changes to the power level of the device to ensure it only uses the minimum power required to communicate with the network.

\* The tests are carried out in accordance with EN 50360, EN 50566, EN 50663, EN 62209-1 and EN 62209-2.

\*\* Please see body worn operation.

## **Body Worn Operation**

Important safety information regarding radio frequency radiation (RF) exposure:

To ensure compliance with RF exposure guidelines the phone must be used with a minimum of 5 mm separation from the body.

Failure to observe these instructions could result in your RF exposure exceeding the relevant guideline limits.

## **Limiting Exposure to Radio Frequency (RF) Fields**

For individuals concerned about limiting their exposure to RF fields, the World Health Organisation (WHO) provides the following advice:

Precautionary measures: Present scientific information does not indicate the need for any special precautions for the use of mobile phones. If individuals are concerned, they might choose to limit their own or their children's RF exposure by limiting the length of calls, or using 'hands-free' devices to keep mobile phones away from the head and body.

Further information on this subject can be obtained from the WHO home page <http://www.who.int/peh-emf> (WHO Fact sheet 193: June 2000).

## Distractions

### Driving

Full attention must be given to driving at all times in order to reduce the risk of an accident. Using a phone while driving (even with a hands-free kit) can cause distraction and lead to an accident. You must comply with local laws and regulations restricting the use of wireless devices while driving.

### Operating Machinery

Full attention must be given to operating the machinery in order to reduce the risk of an accident.

## Product Handling

### General Statement on Handling and Use

You alone are responsible for how you use your phone and any consequences of its use.

You must always switch off your phone wherever the use of a phone is prohibited. Use of your phone is subject to safety measures designed to protect users and their environment.

- Always treat your phone and its accessories with care and keep them in a clean place.
- Keep the screen and camera lens clean. An unclean screen or camera lens may slow down the phone's reaction to your

operations or interfere with the image quality.

- Clean your phone and its accessories with a soft material such as cleaning cloth for eyeglass lenses. Do not use alcohol or other corrosive substances for cleaning or allow them to get inside.
- Do not expose your phone or its accessories to open flames or lit tobacco products.
- Do not expose your phone or its accessories to liquid, moisture or high humidity.
- Do not drop, throw or try to bend your phone or its accessories.
- Do not use harsh chemicals, cleaning solvents, or aerosols to clean the phone or its accessories.
- Do not paint your phone or its accessories.
- Do not attempt to disassemble your phone or its accessories. Only authorized personnel can do so.
- Do not place your phone inside or near heating equipment or high-pressure containers, such as water heaters, microwave ovens, or hot cooking utensils. Otherwise, your phone may be damaged.
- Please check local regulations for disposal of electronic products.
- Do not carry your phone in your back pocket as it could break when you sit down.

## Battery Safety

- Using ZTE-unapproved or incompatible battery, charger or power adapter may damage your device, shorten its lifespan or cause a fire, explosion or other hazards.
- The recommended operating temperatures are 0 °C to 35 °C and the storage temperatures are -20 °C to +45 °C. Extreme temperatures can damage the device and reduce the charging capacity and lifespan of your device and battery.



### **WARNING!**

**Do not remove the back cover. The battery is not removable. Removal may cause fire or explosion.**

- Do not change or replace the built-in rechargeable battery in your device by yourself. The battery can only be changed or replaced by ZTE or ZTE authorized service provider.
- Do not place the device or the battery in or near heating equipment, such as microwave ovens, stoves or radiators. Keep the device and the battery away from excessive heat and direct sunlight. If not, the device or the battery may overheat and cause explosion or fire.
- Do not disassemble, squeeze or puncture the device, as this can cause explosion or fire.
- Do not throw the device into a fire to avoid explosion.
- Please disconnect the charger when the battery is fully charged. Overcharging may shorten the battery life.

- When not using the device for a long period, please charge the battery about half and then store the device in a cool dry place.
- If the battery damages or shows signs of swelling or leakage, please stop use immediately and contact ZTE or ZTE authorized service provider for replacement.

## **Small Children**

Do not leave your phone and its accessories within the reach of small children or allow them to play with it. They could hurt themselves or others, or could accidentally damage the phone.

Your phone contains small parts with sharp edges that may cause an injury or may become detached and create a choking hazard.

## **Demagnetization**

To avoid the risk of demagnetization, do not allow electronic devices or magnetic media close to your phone for a long time.

## **Electrostatic Discharge (ESD)**

Do not touch the metallic connectors of the nano-SIM card.

## **Antenna**

Do not touch the antenna unnecessarily.

## **Normal Use Position**

When placing or receiving a phone call, hold your phone to your ear, with the bottom towards your mouth.

## **Airbags**

Do not place a phone in the area over an airbag or in the airbag deployment area, as an airbag inflates with great force and serious injury could result. Store the phone in a safe and secure area before driving your vehicle.

## **Seizures/Blackouts**

Your phone can produce a bright or flashing light. A small percentage of people may be susceptible to blackouts or seizures (even if they have never had one before) when exposed to flashing lights or light patterns such as when playing games or watching videos. If you have experienced seizures or blackouts or have a family history of such occurrences, please consult a physician. To reduce the risk of blackouts or seizures, use your phone in a well-lit room and take frequent breaks.

## **Repetitive Strain Injuries**

To minimize the risk of Repetitive Strain Injury (RSI) when texting or playing games with your phone:

- Do not grip the phone too tightly.
- Press the buttons lightly.

- Use the special features which are designed to minimize the times of pressing buttons, such as Message Templates and Predictive Text.
- Take frequent breaks to stretch and relax.

## **Emergency Calls**

This phone, like any other wireless phone, operates using radio signals, which cannot guarantee connection in all conditions. Therefore, you must never rely solely on any wireless phone for emergency communications.

## **Loud Noise**

This phone is capable of producing loud noises, which may damage your hearing. Turn down the volume before using headphones, Bluetooth headsets or other audio devices.

## **Phone Heating**

Your phone may become warm during charging and during normal use.

## **Electrical Safety**

### **Accessories**

Use only approved accessories.

Do not connect with incompatible products or accessories.

Take care not to allow metal objects, such as coins or key rings, to contact or short-circuit the charging jack. Never puncture the surface of the phone with sharp objects.

## **Connection to Vehicles**

Seek professional advice when connecting a phone interface to the vehicle electrical system.

## **Faulty and Damaged Products**

Do not attempt to disassemble the phone or its accessories. Only qualified personnel can service or repair the phone or its accessories. If your phone (or its accessories) has been submerged in water, punctured, or subjected to a severe fall, do not use it until you have taken it to be checked at an authorized service centre.

## **Radio Frequency Interference**

### **General Statement on Interference**

Care must be taken when using your phone in close proximity to personal medical devices, such as pacemakers and hearing aids.

Please consult your doctor and the device manufacturers to determine if the operation of your phone may interfere with the operation of your medical devices.

## **Pacemakers**

Pacemaker manufacturers recommend that a minimum separation of 15 cm be maintained between a mobile phone and a pacemaker to avoid potential interference with the pacemaker. To achieve this, use the phone on the opposite ear to your pacemaker and do not carry it in a breast pocket.

## **Hearing Aids**

People with hearing aids or other cochlear implants may experience interfering noises when using wireless devices or when one is nearby.

The level of interference depends on the type of the hearing device and the distance from the interference source. Increasing the separation between them may reduce the interference. You may also consult your hearing aid manufacturer to discuss alternatives.

## **Medical Equipment**

Switch off your wireless device when you are requested to do so in hospitals, clinics or healthcare facilities. These requests are designed to prevent possible interference with sensitive medical equipment.

## **Aircraft**

Switch off your wireless device whenever you are instructed to do so by airport or airline staff.

Consult the airline staff about the use of wireless devices onboard the aircraft and enable airplane mode of your phone when boarding an aircraft.

## **Interference in Vehicles**

Please note that because of possible interference with electronic equipment, some vehicle manufacturers forbid the use of mobile phones in their vehicles unless a hands-free kit with an external antenna is included in the installation.

## **Explosive Environments**

### **Gas Stations and Explosive Atmospheres**

In locations with potentially explosive atmospheres, obey all posted signs to turn off wireless devices such as your phone or other radio equipment.

Areas with potentially explosive atmospheres include fuelling areas, below decks on boats, fuel or chemical transfer or storage facilities, and areas where the air contains chemicals or particles, such as grain, dust, or metal powders.

### **Blasting Caps and Areas**

Power off your mobile phone or wireless device when in a blasting area or in areas where signs are posted to power off “two-way radios” or “electronic devices” to avoid interfering with blasting operations.

## Specification

<p>EUT tested radios application</p>	<p>GSM900/1800  WCDMA Band 1,8  FDD LTE Band 1,3,7,8,20,28  TDD LTE Band 38,40,41  5G NR Band N1,3,28,41,78  802.11a/b/g/n/ac/ax  Bluetooth V5.0+BR/EDR/LE  NFC  GPS</p>
	<p>WCDMA Version Rel.9  LTE Version Rel.15</p>
<p>Maximum RF output power</p>	<p>GSM900: 32.5 dBm  GSM1800: 29.5 dBm  WCDMA Band 1/8: 24 dBm  FDD LTE Band 1/3/7: 24 dBm  FDD LTE Band 8/20/28: 24.5 dBm  TDD LTE Band 38/40: 24 dBm  TDD LTE Band 41: 26 dBm  5G NR Band N1/N3/N28: 23 dBm  5G NR Band N41/N78: 26 dBm  802.11b/g/n/ax: 18 dBm  802.11a/n/ac/ax: 19 dBm  Bluetooth BR/EDR: 10 dBm  Bluetooth LE: 8.5 dBm  NFC: -16.921 dBμA/m @10m  GPS (RX Only)</p>

# CE Caution

## Battery Caution

- There is a risk of explosion if battery is replaced by an incorrect type.
- Dispose of used batteries according to the instructions.
- Do not dispose of a battery into fire or a hot oven, or mechanically crush or cut a battery. Doing so can result in an explosion.
- Leaving a battery in an extremely high temperature surrounding environment can result in an explosion or the leakage of flammable liquid or gas.
- A battery subjected to extremely low air pressure may result in an explosion or the leakage of flammable liquid or gas.

## USB Port

This product shall only be connected to a USB interface of version USB 3.1.

## Proper Use

As described in this guide, your device can be used only in right location. If possible, please do not touch the antenna area on your device.

Do not expose your device to extreme temperatures lower than - 10 °C and higher than + 45 °C.

## Disposal of Your Old Appliance

	<ol style="list-style-type: none"><li>1. When this crossed-out wheeled bin symbol is attached to a product, it means the product is covered by the European Directive 2012/19/EU.</li><li>2. All electrical and electronic products should be disposed of separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities.</li><li>3. The correct disposal of your old appliance will help prevent potential negative consequences for the environment and human health.</li></ol>
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For this product's recycling information based on WEEE directive, please send an e-mail to [weee@zte.com.cn](mailto:weee@zte.com.cn)

# EU DECLARATION OF CONFORMITY



Hereby, ZTE Corporation declares that the radio equipment type ZTE A2022PG is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following Internet address: <https://certification.ztedevices.com>

The device is restricted to indoor use only when operating in the 5150 to 5350 MHz frequency range.

	AT	BE	BG	HR	CY	CZ	DK
	EE	FI	FR	DE	EL	HU	IE
	IT	LV	LT	LU	MT	NL	PL
	PT	RO	SK	SI	ES	SE	UK(NI)

## ErP Conformity

The external power supply of this product conforms to the Energy-related Product Directive (ErP) 2009/125/EC of the European Parliament and the Council.

Manufacturer's name, commercial registration number, and address	ZTE Corporation 9144030027939873X7 ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan District, Shenzhen, China
Model identifier	STC-A59152050AC-A
Input voltage	100 V ~ 240 V
Input AC frequency	50/60 Hz
Output voltage	5.0 V & 9.0 V & 15.0 V & 20.0 V PPS: 5.0 V & 11.0 V
Output current	3.0 A (5.0 V & 9.0 V & 15.0 V) & 3.25 A (20.0 V) PPS: 3.25A (5.0 V) & 5.0 A (5.0 V & 11.0 V)
Output power	15.0 W (5.0 V) & 27.0 W (9.0 V) & 45.0 W (15.0 V) & 65.0 W (20.0 V) PPS: 16.25 W (5.0 V) & 25.0 W (5.0 V) & 55.0 W (11.0 V)

Average active efficiency	81.7% (5.0 V) & 86.9% (9.0 V) & 88.0% (15.0 V) & 88.3% (20.0 V) PPS: 82.2% (5.0 V) & 84.5% (5.0 V) & 88.3% (11.0 V)
Efficiency at low load (10%)	15.0% (5.0 V) & 27.0% (9.0 V) & 45.0% (15.0 V) & 78.3% (20.0 V) PPS: 73.3% (5.0 V) & 75.8% (5.0 V) & 78.3% (11.0 V)
No-load power consumption	0.21 W