

HUAWEI P20 Pro

User Guide



HUAWEI

Contents

Exciting Features

Featured Usage Tips	1
Camera Tips	2
More Features	7

New Device

New Device Configuration	10
--------------------------	----

Gestures and Operations

Screenshots and Screen Recording	12
----------------------------------	----

Home Screen

Navigation Bar	16
Notification Panel and Status Bar	17
Set a Lock Screen Password to Protect Your Privacy	17
Home Screen Management	18

Contacts

Managing Business Cards	22
Managing Contacts	23
Merging Third-party App Contacts	24

Dialing

Basic Calling Functions	26
VoLTE	27

Message

Basic Messaging Functions	28
---------------------------	----

Camera

Basic Camera Functions	29
Use Portrait Mode to Take Stunning Portraits	31
Use AR lens to Add Effects to Your Photos	31
Use Panorama Mode to Take Panoramic Photos	32
Use 3D Panorama to Take 360-degree Photos	32
Pro Mode	33
Take Black and White Photos	35
Light Painting Mode	36
Take Moving Pictures	40

Gallery

Customize Highlights Albums	42
Organize Photo Albums	43

Phone Manager

Enable Smart Power-Saving Management to Optimize Power Consumption	45
--	----

Email

Manage Email Accounts	46
Set Auto Response for Exchange Email	46

Calendar

Navigate the Calendar	47
-----------------------	----

Utilities

Use Recorder to Make Audio Notes	49
----------------------------------	----

Multiple Users

Set and Use Multiple Users	50
----------------------------	----

Device Connection

Connect Your Phone to Bluetooth Devices	52
NFC	53
Desktop Mode	55
Transfer Data between Your Phone and Computer	59

Security and Privacy

Face Unlock	60
Fingerprint	61
Enable or Disable Location Services	63
PrivateSpace	64
Enable App Lock	66

Backup and Restoration

Restore Your Backup Data	68
--------------------------	----

Wi-Fi and Network

Wi-Fi	69
Configure the Dual-SIM Settings	71
Share Your Mobile Network with Other Devices	71

Apps and Notifications

App Twin: Log In to Two Social Media Accounts at Once	73
Customize App Permissions to Use Your Phone Your Way	73

Sound and Display

Configure Do Not Disturb Mode	74
Configure Your Sound Settings	74
Use Shortcuts to Access Frequently Used Features	75

Storage

Enable Memory Cleanup	76
-----------------------	----

Smart Assistance

Access Phone Functions from Anywhere with Navigation Dock	77
---	----

System

Change the Input Method	78
Enable Color Correction	78
General Settings	78

System Update

Performing an Online Update	82
-----------------------------	----

Legal Notice


Legal Notice	83
Personal Information and Data Security	85
Obtaining help	85

Exciting Features


Featured Usage Tips


Enroll Your Facial Information to Enable Face Unlock


Face unlock allows you to quickly unlock your Phone by holding it up to your face.

- ⚠️ • Only the owner can enable Face unlock. This feature is not available for users or guests, and not supported in PrivateSpace either.
 - Face unlock is not available if the screen unlock password has not been entered for three or more days in a row, or if your Phone has been remotely locked, or has been restarted.
 - When using Face unlock to unlock your Phone, keep your eyes open, face yourself directly towards your Phone, and keep your face at a distance of 20 cm (7.87 in.) to 50 cm (19.69 in.) from your device. In order to scan your face accurately, avoid using this feature when you are in a dark environment or when facing direct light.
- 1 Open  **Settings**. Go to **Security & privacy > Face recognition** and enter your screen unlock password.
 - 2 You can select **Enable Pick up to wake to enhance the Face unlock experience**. In this case, your Phone will turn on the screen and identify your facial features to unlock the screen automatically whenever you pick up your Phone and hold it to your face. If you do not wish to use this feature, you can disable this option. Touch **Enroll face** and follow the onscreen instructions to enroll your face.
 - 3 Methods to set Face unlock:
 - **Direct unlock**: Turn on the screen. Your Phone identifies your facial features and unlocks the screen.
 - **Swipe to unlock**: Turn on the screen. After your Phone identifies your facial features, swipe the lock screen to unlock your device.
 - **Smart display of lock screen notifications**: Enable **Slide to unlock** and **Smart lock screen notifications**. On the lock screen, your Phone hides notification details by default and displays them only after identifying the device owner's face.
 - **Access app lock**: Enable **Access app lock** to access apps and locked apps using Face unlock.

Pick Up to Unlock


Open  **Settings**, and go to **Security & privacy > Face recognition**. When enrolling facial data, select **Enable Pick up to wake to enhance the Face unlock experience**, and set the Face unlock method to **Direct unlock**. Once the setup is complete, you can simply raise your Phone to unlock the screen, without a password or fingerprint.

If you haven't selected **Enable Pick up to wake to enhance the Face unlock experience** when enrolling facial data, you can open  **Settings**, go to **Security & privacy > Face recognition**, and

set the Face unlock method to **Direct unlock**. Then, open  **Settings**, go to **Smart assistance > Motion control > Pick up**, and select **Wake device**.

Access Phone Functions from Anywhere with Navigation Dock

In order to close an app or return to the home screen, you must use the navigation bar at the bottom of your Phone. You can enable the Navigation dock feature on your Phone to avoid using navigation buttons and to comfortably operate your device with one hand.



Open  **Settings**. Go to **System > System navigation > Navigation dock** and enable **Navigation dock**. The Navigation dock will appear on the screen. You can then drag it to your preferred location. The Navigation dock can perform the following actions:

- **Back**: Touch the Navigation dock once to go back one step, or touch it twice to go back two steps.
- **Home**: Touch and hold the Navigation dock and then release it to go to the home screen.
- **View background apps**: Touch and hold the Navigation dock and then swipe left or right to view any apps that are running in the background.

Camera Tips

Take Black and White Photos







The world is an amazingly colorful place. But sometimes too many colors can be distracting. Monochrome mode filters out color, helping to bring out light and shadows, and give photos more mood and atmosphere.

Open  **Camera > More > Monochrome**, and then touch  to take photos in black and white.



Use 3D Panorama to Take 360-degree Photos

Try the 3D panorama function to capture a 360-degree view of a scene or person.

- Shooting objects:** Go to  **Camera > More > 3D panorama**. Touch and hold , then follow the onscreen prompts to slowly move your Phone around your subject in one direction. Release  to stop shooting. After shooting, touch the camera thumbnail, and then touch **3D** above the photo to generate a 3D panoramic photo.
- Shooting scenery:** Go to  **Camera > More > 3D panorama**. Touch and hold , then follow the onscreen prompts to slowly move your Phone around your subject in one direction. Release  to stop shooting. After shooting, touch the camera thumbnail, and then touch **3D** above the photo to generate a 3D panoramic photo.





After a 3D panorama has been generated, you can tilt your Phone or drag the photo to view the 3D effect.

Use Panorama Mode to Take Panoramic Photos

Panoramas provide a wider viewing angle than ordinary photos, letting you take sweeping landscape shots.

To capture a panorama shot, the camera takes multiple photos of objects within our visual field and stitches them together into a single photo.


- i** When taking a panorama, find a wide, open space that is some distance away from the subject and try to avoid backgrounds that are all in one color.

- 1** Go to  **Camera > More > Panorama.**
- 2** Touch  at the bottom of the screen to configure the shooting direction.
- 3** Hold your Phone steady, and then touch  to start shooting. Slowly move the Phone in the direction indicated, holding the device steady and ensuring that the arrow stays level with the center line.
- 4** Touch  when you are finished. The camera will automatically stitch the photos together to create a panorama.









Use AR lens to Add Effects to Your Photos

Tired of taking boring pictures? You can use **AR lens** to add a variety of stickers or change the background of your photos to make them look more interesting.

Open  **Camera > More > AR lens.**


There are several effects to choose from to make your photos stand out:

- **Taking group photos with your 3D objects:** Touch **3D objects** and select a 3D object that you like. Then touch  to take a group photo of you and your 3D object, or touch  and then touch  to record a video.
- **Adding customized effects for your photos or videos:** Touch **Gesture effects**, and then touch , , or . Then follow the onscreen instructions to add customized backgrounds to your photos or videos.

Use Pro Mode to Take Scenic Photos



Want to make your scenic photos more vibrant and interesting? Use Pro mode to take unique and personalized scenic photos.

Open  **Camera > Pro** to enter Pro mode.





Select a metering mode based on the shooting subject: On the Pro mode screen, touch , and select a metering mode accordingly.

Metering mode	Application scenario
Matrix	Broad landscapes and seas
Center	The subject is in the center of the picture, and stands out from the background.
Spot	The subject to be highlighted in the picture is relatively small, such as a flower or a tree.

Adjust brightness based on the shooting environment:


- **Adjust ISO:** On the Pro mode screen, touch ^{ISO}, and swipe left or right on the ISO slider to adjust its value.
 -  To avoid excessive noises, the recommended ISO is below 400. The recommended ISO for the daytime is between 100 and 200 and above 400 for night scenes.
- **Adjust the shutter speed:** On the Pro mode screen, touch ^S (shutter speed), slide on the shutter speed slider, and drag your desired speed to the center.
 -  The recommended shutter speed for static scenes (such as mountains) is between 1/80 and 1/125; and faster (less than 1 second) for moving subjects (such as waves). For the best result, using a tripod when shooting a moving subject.
- **Adjust EV compensation:** On the Pro mode screen, touch ^{EV}, slide on the EV slider and drag the selected value to the center.


Adjust AWB: On the Pro mode screen, touch ^{AWB}, slide on the AWB slider and drag the selected value to the center.


-  • When shooting under sunlight, you can select . In a weak light environment, you can select .
- Touch  to adjust the color temperature. If you want to give your photo a cozy, nostalgic tone, increase the K value. For a cold, calm or futuristic tone, select a lower K value.

Adjust AF based on the shooting subject: On the Pro mode screen, touch ^{AF}, slide on the AF slider and drag your desired mode to the center.

AF modes	Application scenario
AF-S mode	Static scenes (such as mountains).
AF-C mode	Moving scenes (such as flowing water and sea waves).
MF mode	Protruding objects (such as a close-up of a flower).

Hold your device steady when shooting: In Pro mode, touch  and enable **Horizontal level**. After this feature is enabled, two horizontal guiding lines will appear in the viewfinder. When the dotted line overlaps with the solid line, it indicates that the camera is horizontally aligned.



Save RAW format pictures: In Pro mode, touch  > **Resolution**, and enable **RAW format**. After this function is enabled, pictures taken in Pro mode will be saved in both RAW and standard JPG formats.

-  • Some settings in Pro mode may change after you change a setting. You may adjust them based on your actual needs.
- The recommended settings above are for reference only. You may adjust them based on the actual condition to achieve your desired effect.

Use Pro Mode to Capture Portraits

Want to take more professional portraits? The Pro mode allows you to adjust your camera settings to shoot professional portraits.

Open  **Camera > Pro**.



Select a Metering mode:  or  mode is recommended for taking portraits. Place your shooting subjects (their faces for example) in the center of the viewfinder.

Adjust brightness based on the shooting environment

- **Adjust ISO:** To avoid excessive noises, it is recommended that you adjust the ISO to a low level when shooting portraits. You may adjust the ISO based on the actual shooting environments.

Shooting Environment	Recommended ISO
Outdoors	Between 100 and 200
Indoors	Around 400
Night scenes	Between 400 and 800

- **Adjust shutter speed:** The shutter speed should be slow if the ambient light is low and fast when the ambient light is strong. The recommended shutter speed for static portraits is between 1/80 and 1/125. To shoot moving subjects, select a shutter speed at or above 1/125.
- **Adjust EV compensation:** You may increase the EV compensation if the light on the subjects or background is low, and decrease the EV compensation if there is too much light.

Adjust AWB: Select AWB depending on the lighting conditions. When shooting under sunlight, you can select . In a low light environment, you can select .


Adjust Focus: To better highlight a subject, it is recommended that you use manual focus (MF) when shooting portraits. In the viewfinder, touch to focus on the part (the subject's face for example) you want to highlight.

- In Pro mode, some settings may change after you change a setting. You may adjust them based on your actual needs.
- The recommended settings above are for reference only. You may adjust them based on the actual usage conditions to achieve your desired effect.


More Features

Enable App Lock

App lock allows you to set a password for your important apps. Once you restart your Phone or unlock the screen, you will be asked to enter your App lock password when opening the apps for the first time. App lock enhances the protection of your private information and prevents unauthorized access to important apps on your device.

Enable App lock: Open  **Settings**. Go to **Security & privacy > App lock**. When you access the app for the first time, follow the onscreen instructions to set the password and enter the app lock. In subsequent access, you can directly enter the app lock password. On the App lock screen, enable App lock for the apps you want to protect. When accessing a locked app for the first time, you need to enter the password in the password text box. If you forget the password, touch **Forgot password**, enter the answer in the password protection question box, and reset the password. If you have not set the password protection, the **Forgot password** option is not available.

- If you have set up a fingerprint and facial recognition to unlock your Phone and are opening App lock for the first time, you can follow the onscreen instructions to associate your fingerprint and facial recognition with App lock for easier app unlocking.

Modify your App lock password and password protection: Touch  on the App lock screen, and then touch **Change password** or **Change password protection** to modify your App lock password or password protection.



Set Your Home Screen Wallpaper

Tired of default wallpapers? Set a photo you like as your home screen wallpaper to personalize your home screen.

Open  **Settings**, and then go to **Home screen & wallpaper > Wallpaper**. You can:

Set a picture as your home screen wallpaper: Touch **Gallery** or select a preset wallpaper in your device, and follow the onscreen instructions to select **Lock screen**, **Home screen** or **Both**.

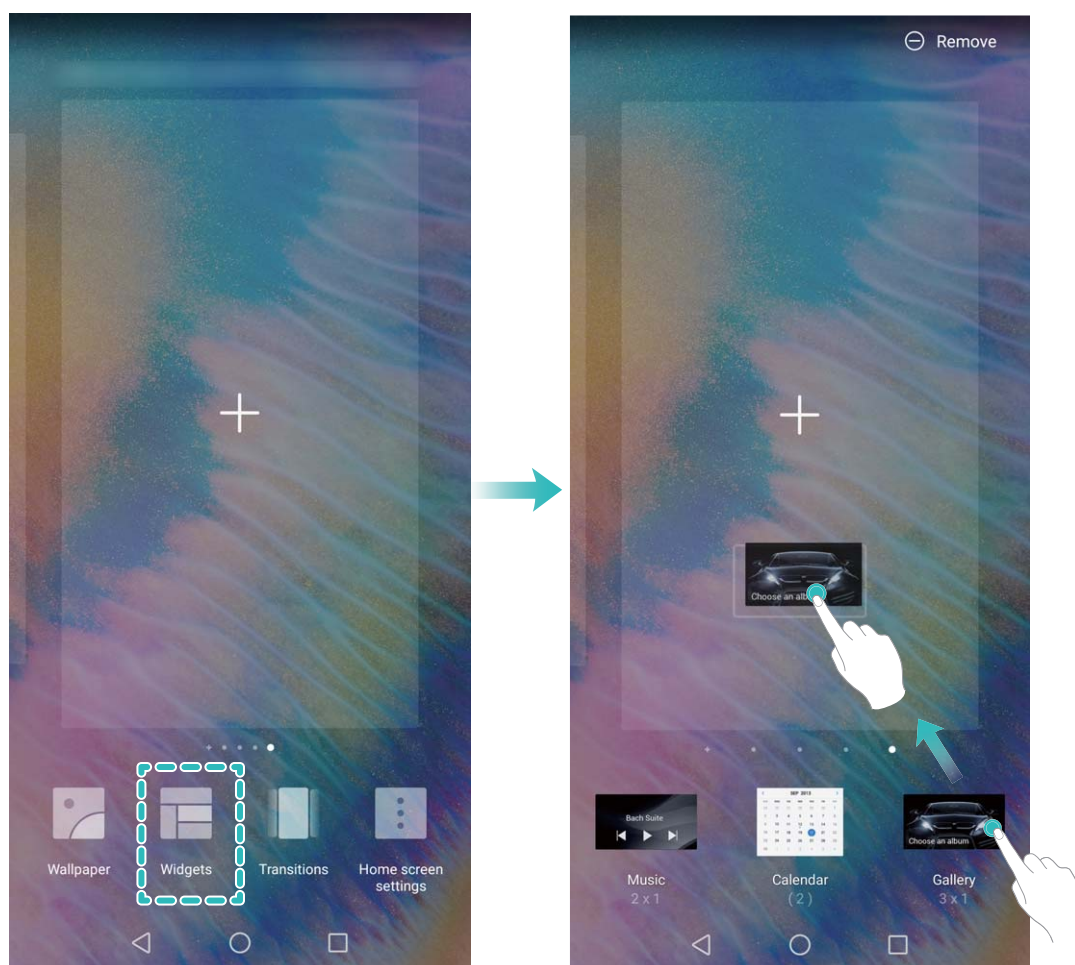
Set a photo as your wallpaper from Gallery: Have a great photo you want to set as your

wallpaper? In  **Gallery**, open the photo that you like, go to  > **Set as > Wallpaper**, and follow the onscreen instructions to set the photo as your home screen wallpaper.

Manage Your Home Screen Widgets

Want to quickly add widgets such as screen lock, weather, notepad, clock, contacts, or calendar to your home screen? You can add, move or delete home screen widgets to tidy up your home screen and ease your usage experience.

Add widgets: Touch and hold an empty area on the home screen to enter home screen editing mode. Touch **Widgets**, touch and hold a widget and drag it to an empty area on the home screen, or touch the widget you want.




- i Check that there are enough empty spaces on the home screen for the widget. If there is not enough space, add an empty screen page or free up some space on the current home screen page.



Delete widgets: Touch and hold a widget on the home screen until your Phone vibrates, and then select **Remove**.

Move widgets: Touch and hold a widget on the home screen until your Phone vibrates. Drag the widget to any position on the screen.

Use App Drawer to Store Apps


Want to store your apps in one location on your home screen to make your home screen look cleaner? You can enable app drawer on your home screen to store all your apps and free up space on your home screen.

Open  **Settings**, go to **Home screen & wallpaper > Home screen style**, and select **Drawer**. If you want to switch back to a standard home screen, select **Standard**.

 **Add an app icon from app drawer to the home screen:** After you enable app drawer, touch  on the home screen to enter the app list. From the app list, touch and hold the app icon that you want to add until your Phone vibrates, and then drag it to the desired position on the home screen.

Enable Memory Cleanup

Your Phone may slow down over time as your storage space gets smaller. You can use memory cleanup to free up storage space, improve system performance, and keep your Phone running smoothly.

Open  **Phone Manager**. Touch **Cleanup** to clear memory and cache and optimize performance. If your storage space is still low, you can perform a deep clean to free up additional storage space.


New Device

New Device Configuration


Enroll Your Facial Information to Enable Face Unlock


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 - **Smart display of lock screen notifications**: Enable **Slide to unlock** and **Smart lock screen notifications**. On the lock screen, your Phone hides notification details by default and displays them only after identifying the device owner's face.
 - **Access app lock**: Enable **Access app lock** to access apps and locked apps using Face unlock.

Pick Up to Unlock


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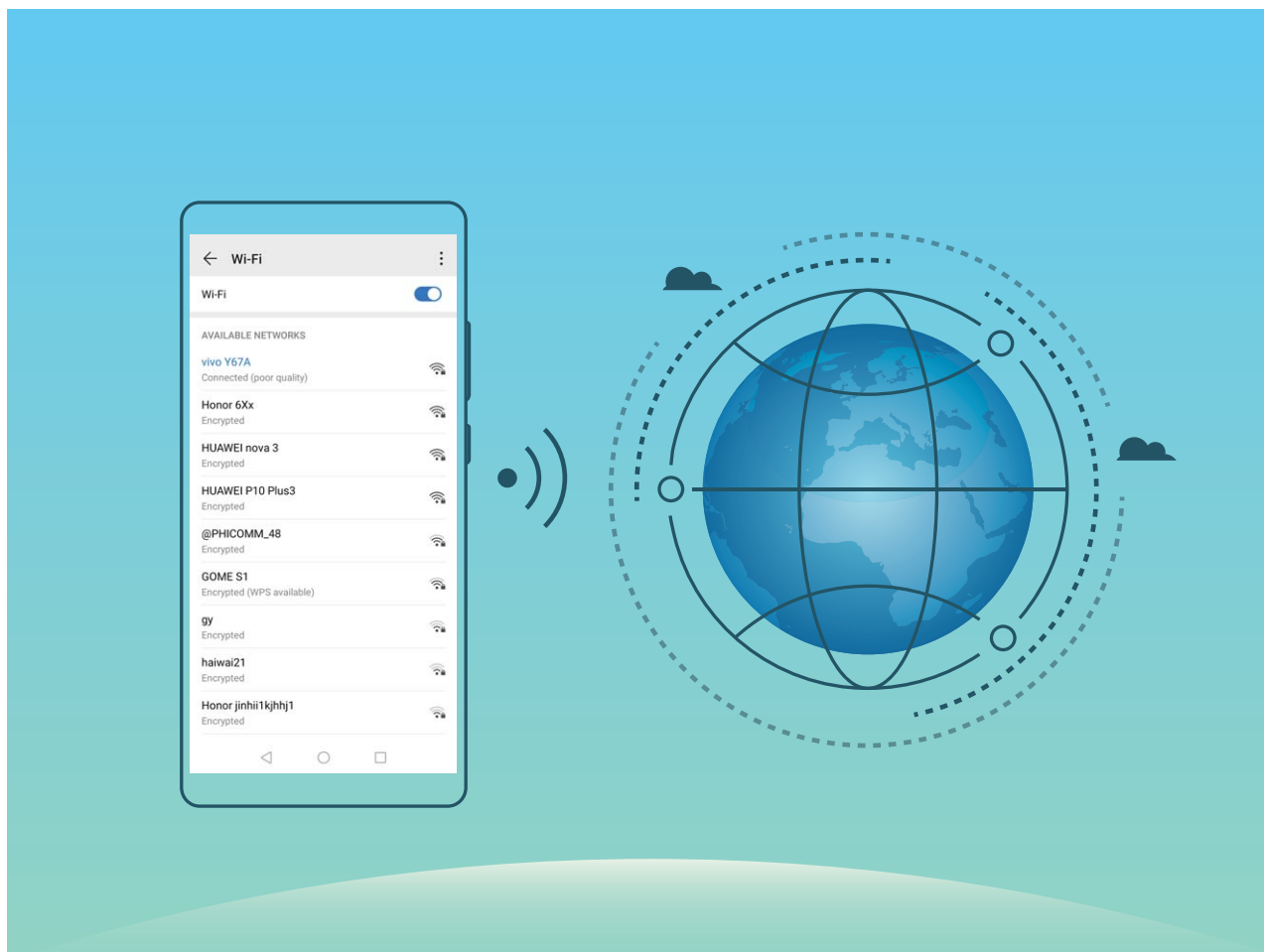
If you haven't selected **Enable Pick up to wake to enhance the Face unlock experience** when enrolling facial data, you can open  **Settings**, go to **Security & privacy > Face recognition**, and


set the Face unlock method to **Direct unlock**. Then, open  **Settings**, go to **Smart assistance** > **Motion control** > **Pick up**, and select **Wake device**.

Connect to Wi-Fi

By connecting your device to a Wi-Fi network, you can effectively save mobile data.

-  To avoid potential security risks (such as unauthorized access to your personal data and financial information), please exercise caution when connecting to a public Wi-Fi network.



Connect to a Wi-Fi Network: Open  **Settings**, go to **Wireless & networks** > **Wi-Fi**, and enable **Wi-Fi**. Touch a Wi-Fi network to access it, and enter the network password or complete the authentication if required. Alternatively, you can scroll to the bottom of the menu, touch **Add network**, and follow the onscreen instructions to add a network hotspot by entering its name and password.



Gestures and Operations

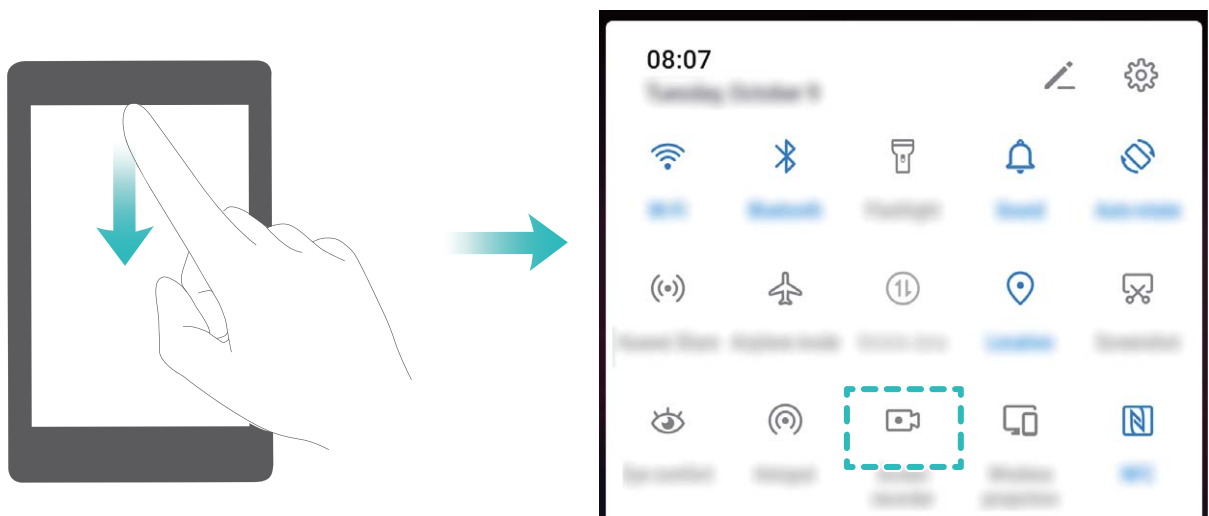
Screenshots and Screen Recording

Record Exciting Moments on Your Screen

The screen recording feature comes in handy when you are making tutorial videos or if you want to record your gaming exploits to share with your friends using your Phone.

- Screen recording will end if you make or answer a call.
- If you are using the sound recording function of your Phone before screen recording, **Enable microphone** is disabled by default.
- If you have enabled **Enable microphone**, your device will record all ambient sounds in the recording. It is recommended that you record your screen in a quiet environment.

Use shortcut to start recording: Swipe down from the status bar to open the notification panel, and then touch  to start recording the screen. You can enable or disable **Enable microphone** based on your needs. To end the recording, touch  in the upper left corner of the screen.



Use key combination to start recording: Simultaneously press and hold the **Power** button and the **Volume up** button to begin recording. You can enable or disable **Enable microphone** based on your needs. To end the recording, simultaneously press and hold the **Power** button and the **Volume up** button again.




Use knuckle to start recording: Knock the screen twice in quick succession with two knuckles to start recording. You can enable or disable **Enable microphone** based on your needs. To end the recording, gently and rapidly knock the screen twice with two knuckles again.



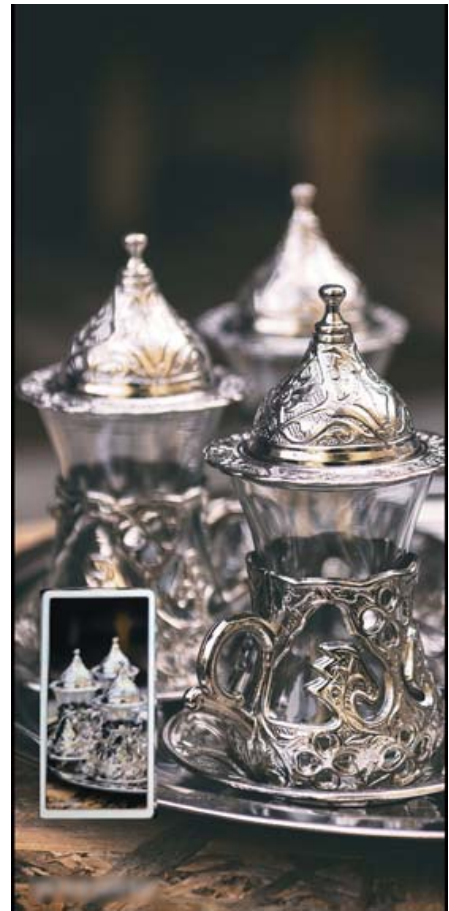
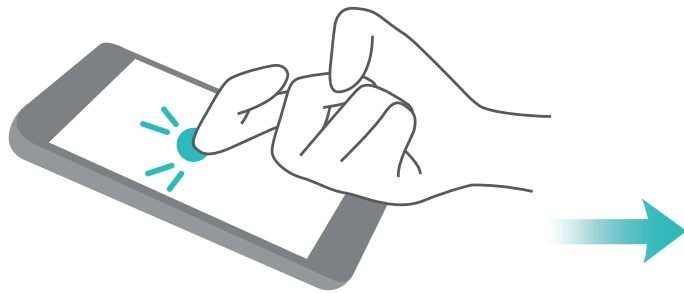
You can view your screen recordings in **Gallery**.

Take a Screenshot of Your Entire Screen

Use combo key to take screenshot: Simultaneously press and hold the Power button and the Volume down button to take a screenshot of the full screen.

Use shortcut switch to take screenshot: Swipe down from the status bar and open the shortcuts panel, then touch  to take a screenshot of the full screen.

Use knuckle to take screenshot: Use a knuckle to gently double-tap the screen in quick succession to take a screenshot of the full screen.




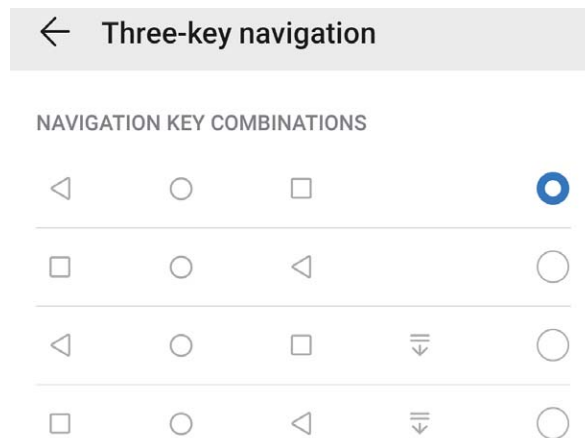
Home Screen





Navigation Bar

Configure Your Navigation Bar Layout

Using the navigation bar, you can conveniently access the home screen, return to the previous page, exit an app, or view recent apps used.


To configure your navigation bar layout, touch  **Settings**, then go to **System > System navigation > Three key navigation > Settings**, and select the navigation key combination and enable or disable **Hide navigation keys** based on your usage habits.




-  **Back key:** Touch to return to the previous page or exit an app. Touch to close the onscreen keyboard when inputting text.
-  **Home key:** Touch to return to the home screen. Touch and hold to display the HiVoice icon and swipe upwards on the icon to enable HiVoice features.
-  **Recent key:** Touch to open a list of recently used apps. Touch and hold to enable split screen mode.
-  **Downward swipe notification key:** Touch to open the notification panel.

Use the Recent Key to Manage Background Apps

If you want to quickly switch to a recently used app, you might try using the Recent key. The Recent key can help you quickly switch between several recently used apps. You can also use it to close your background apps to increase your Phone's operating speed.

Touch  . You can view, switch to, close, or lock recently used background apps:


- **View recently used apps:** Recently used apps will be displayed on the screen and you can check them by swiping left or right.

- **Switch to a recently used app:** Swipe left or right on the screen to find the app you want to use, and touch the app tab.
- **Close an app:** Swipe up on an app tab to close the corresponding app.
- **Close all apps:** Touch  to close all apps.

Notification Panel and Status Bar

Disable Disruptive App Notifications

Find it annoying to receive so many different types of app notifications? You can set and disable app notifications to prevent this from happening.

Open  **Settings**, and go to **Notifications**. You can:

- **Disable push notifications from an app:** On the **Notifications** screen, find and touch the desired app, and then turn off .
- **Prevent all apps from pushing notifications:** Touch **Batch management**, and then turn off **All**.

Customize Notifications


Not a fan of the default notification reminders? You can customize your notification reminders so that you get your notifications the way you want them.

Open  **Settings**, then go to **Notifications > More notification settings**. From here, you can:

- **Enable Notifications turn on screen:** Enable **Notifications turn on screen**. When your Phone screen is off, it will turn on when a notification is received.
- **Set Pulse notifications light:** Turn on **Pulse notification light**, and the notification light will flash whenever you receive new notifications.
- **Set notification method:** Touch **Notification method**. Depending on your preferences, you can select **Icons**, **Numbers**, or **None**.

Set a Lock Screen Password to Protect Your Privacy

Your Phone stores a lot of sensitive information, such as personal photos, contact information, banking apps (for example, Alipay). Set a lock screen password so that a password is required each time you unlock your Phone. A lock screen password helps to protect your private information if your Phone is lost or accessed by an unauthorized user.

Set a lock screen password: Open  **Settings**, go to **Security & privacy > Lock screen password**, and set the type of lock screen password you prefer.

- **Set a PIN:** A PIN number is a sequence of digits. Entering a PIN to unlock your Phone is quick and simple. For better security, use a long sequence of random numbers as your PIN. Go to **Set lock screen password**, follow the prompts to set up a PIN. Alternatively, touch **Change unlock method**, and set **4-digit PIN** or **Custom PIN**.

- **Set a pattern:** Unlock your Phone by drawing a preset pattern on the screen. For better security, use a pattern that includes overlapping line segments. Go to **Set lock screen password > Change unlock method > Pattern** and draw the same pattern twice. The pattern must connect at least 4 dots.
- **Set a password:** A password made up of numbers, letters, and special characters is more secure than a PIN or pattern. For better security, use a password with 8 or more characters that includes numbers, letters, and special characters. Be sure to memorize the password so that you don't get locked out of your Phone if you forget it. Go to **Set lock screen password > Change unlock method > Password**, follow the prompts to set up a password.
- **Unlock your device using a smart band:** If your device supports unlocking with a smart band, the screen will automatically light up when the band comes within 80 cm of your device. Swiping on the screen of your Phone will instantly unlock the device. Touch **Smart unlock**, and follow the onscreen prompts to complete the setup.
- **Unlock your device using a fingerprint:** If your device supports fingerprint unlock, this is the recommended unlock method. Using a fingerprint is a secure and quick way to unlock the device. After setting a lock screen password, touch **Enroll** in the dialog box that pops up and follow the onscreen prompts to enroll your fingerprints.
- **For security reasons, please do not disable the lock screen password:** A lock screen password prevents unauthorized access to your device. For the security of your device, do not select **Disable lock screen password** as the screen lock method.
- **Regular password prompts help you to remember your password:** If you have not entered your screen lock password for 3 days, the system will require that you enter the password to unlock your device.


Home Screen Management

Manage Home Screen Icons

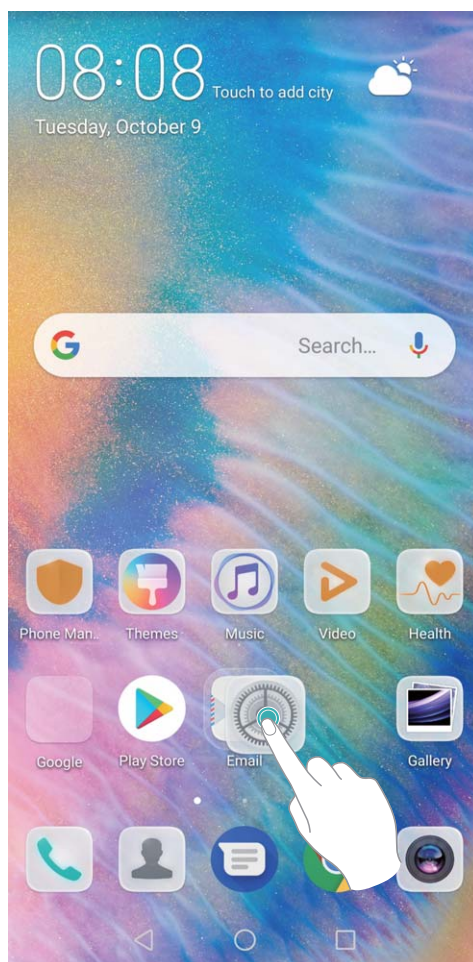
Is your home screen cluttered with app icons? You can move or delete icons from the home screen or sort and move them to folders for more convenient use.

Move a home screen icon: From the home screen, touch and hold an app icon until your Phone vibrates, then drag it to any position on the home screen.

Delete an app: From the home screen, touch and hold the icon of the app you want to uninstall until your Phone vibrates, and then touch **Uninstall**. Follow the onscreen prompts to delete the app.

 To ensure that the system runs normally, some preinstalled system apps cannot be uninstalled.

Create a folder: From the home screen, touch and hold an app icon until your Phone vibrates, then drag it on top of another icon. The two icons will now be placed in a new folder.



Delete a folder: Open the folder, touch $+$, deselect all the apps, then touch **OK**. The folder will be deleted automatically and all the app icons in the folder will be moved to your home screen.

Rename a folder: Open the folder, touch the folder name and enter a new name.

Add or remove app icons from a folder: Open the folder, touch $+$, select or deselect apps and then touch **OK**. The selected app icons will be automatically added to the folder while the deselected apps will be removed from the folder.

i Another way to remove an app icon from a folder is to touch and hold the icon in the folder until your Phone vibrates, and then drag it to the home screen.


Manage Your Home Screen

Too many icons on your home screen? You can add a new page to your home screen and customize it to your liking.

Touch and hold an empty area on the home screen to enter home screen editing mode. You can do the following:

- **Add a new screen page:** Touch $+$ at the left or right side of the screen to add a new screen page.
- **Delete an empty screen page:** Touch \times to delete the page.

i Screen pages with app icons or widgets on them cannot be deleted.

- **Modify screen page order:** Touch and hold the screen page you want to move, then drag it to the desired position.
- **Set a default home screen page:** Touch  in the upper part of the home screen to set the selected screen page as your default home screen page.



Set Your Home Screen Wallpaper

Tired of default wallpapers? Set a photo you like as your home screen wallpaper to personalize your home screen.

Open  **Settings**, and then go to **Home screen & wallpaper > Wallpaper**. You can:

Set a picture as your home screen wallpaper: Touch **Gallery** or select a preset wallpaper in your device, and follow the onscreen instructions to select **Lock screen**, **Home screen** or **Both**.

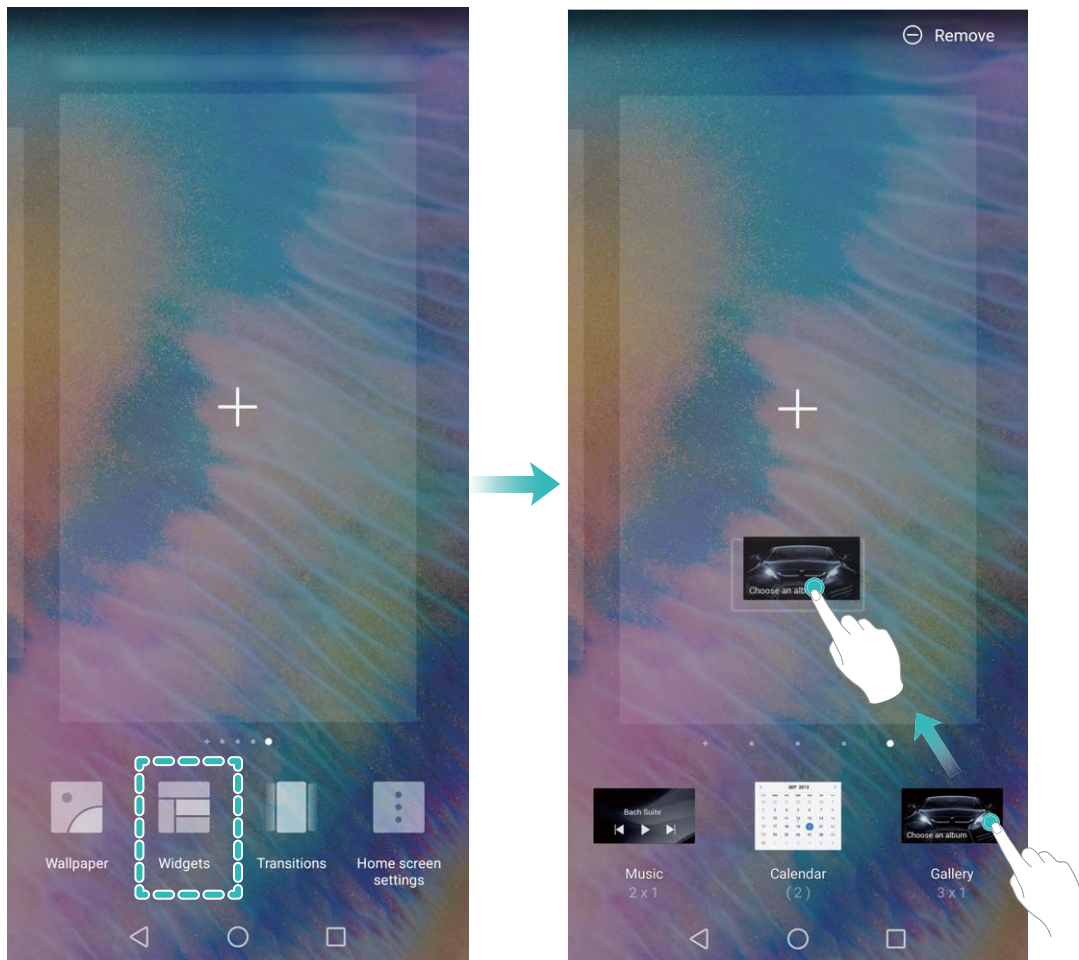
Set a photo as your wallpaper from Gallery: Have a great photo you want to set as your

wallpaper? In  **Gallery**, open the photo that you like, go to  > **Set as > Wallpaper**, and follow the onscreen instructions to set the photo as your home screen wallpaper.

Manage Your Home Screen Widgets

Want to quickly add widgets such as screen lock, weather, notepad, clock, contacts, or calendar to your home screen? You can add, move or delete home screen widgets to tidy up your home screen and ease your usage experience.

Add widgets: Touch and hold an empty area on the home screen to enter home screen editing mode. Touch **Widgets**, touch and hold a widget and drag it to an empty area on the home screen, or touch the widget you want.




- i** Check that there are enough empty spaces on the home screen for the widget. If there is not enough space, add an empty screen page or free up some space on the current home screen page.


Delete widgets: Touch and hold a widget on the home screen until your Phone vibrates, and then select **Remove**.

Move widgets: Touch and hold a widget on the home screen until your Phone vibrates. Drag the widget to any position on the screen.

Use App Drawer to Store Apps

Want to store your apps in one location on your home screen to make your home screen look cleaner? You can enable app drawer on your home screen to store all your apps and free up space on your home screen.

Open  **Settings**, go to **Home screen & wallpaper > Home screen style**, and select **Drawer**. If you want to switch back to a standard home screen, select **Standard**.


- i** **Add an app icon from app drawer to the home screen:** After you enable app drawer, touch  on the home screen to enter the app list. From the app list, touch and hold the app icon that you want to add until your Phone vibrates, and then drag it to the desired position on the home screen.

Contacts

Managing Business Cards

Scan Business Cards to Add Them to Contacts

Open  **Contacts**, go to **Business cards** > **Scan**, and you can:

- **Scan a single business card:** Place the business card on a flat surface and adjust the camera's focus frame so that the contents on the business card are clearly displayed in the viewfinder, then touch .






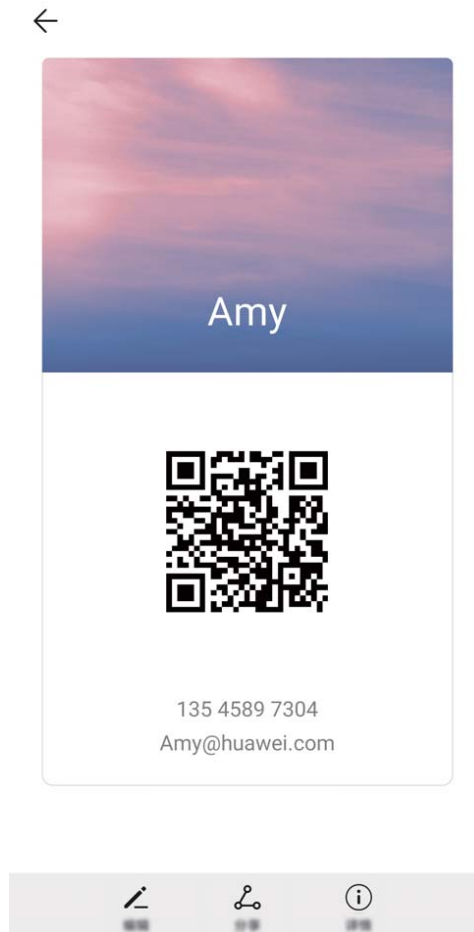
- **Scan multiple business cards:** Switch to **Multiple** mode and follow the onscreen instructions to capture multiple business cards.


The information on the business cards will be automatically converted into contact information and saved in **Business cards** in your Phone.


-  To view a business card you have saved, open  **Contacts**, select scanned contacts, then go to **Details**.

Share Contacts Using Electronic Business Cards

Share your business card: Open  **Contacts** and touch **My card** to set your profile picture and enter your name, work address, telephone number, and other information. Then touch  and your device will automatically generate your QR code business card. You can share your business card directly using the QR code. Alternatively, touch , select a sharing method, and follow the onscreen instructions to share.



Share contacts: Open  **Contacts**, select the contact you want to share, and touch the QR code icon in the upper right corner to share the contact using the QR code. You can also touch **Share**, select a sharing method, and follow the onscreen instructions to complete the sharing process.

 If the other party's device supports QR code analysis, they can directly take pictures of or scan QR codes to add contacts.

Managing Contacts

Import and Export Contacts

When you switch to a new Phone, you'll need to transfer your existing contacts.

Open  **Contacts**, go to  > **Import/Export**, and then select one of the following:


- **Import contacts:** Select **Import from storage**, **Import via Bluetooth**, or **Import from SIM** and follow the onscreen instructions.

- **Export contacts:** Select **Export to storage**, **Export to SIM**, or **Share contacts** and follow the onscreen instructions. By default, **.vcf** files exported through **Export to storage** are saved in the root directory of your device's internal storage. Open **Files** to view exported files.


Manage Your Contacts

The Contacts app gives you a host of features for managing your contacts. You can simplify your contacts list, choose to only view contacts on your Phone or SIM card, and easily find your frequent contacts.

Merge duplicate contacts: If there are duplicate contacts in your contacts list, you can use the


Merge duplicate contacts function to merge them. From the contacts list, go to  > **Organize contacts** > **Merge duplicate contacts**, select the contacts you want to merge, and then touch **Merge**.

Display contacts for different accounts: Want to only view contacts on your Phone or SIM card?

Go to  > **Display preferences**, and select the accounts that you want to display. You can also:

- **Enable Simple layout:** Want to hide the profile pictures, companies, and titles in the contacts list?

From the contacts list screen, go to  > **Display preferences**, and enable **Simple view**.



- **View contact storage space:** Want to check your contact storage space? From the contacts list, go to  > **Display preferences**. In the **Accounts** field, you can see the available and total storage space of your SIM card.

Add contacts to Favorites: Tired of constantly searching through your contacts for a particular entry? You can Favorite your frequent contacts for quick and easy access. From your Contacts list, touch the entry you want to Favorite, then touch **Favorite** to add it to the Favorites screen.

Merging Third-party App Contacts

Associate Contact Information with Your Social Account

What does each contact in your Phone do? What are their emails? What are their job titles? You can use third-party social media apps (such as LinkedIn) to find out more information about your contacts.


Associate LinkedIn account: Open  **Contacts**, go to  > **Settings** > **Associate LinkedIn account** and follow the onscreen instructions to log in to your LinkedIn account. Once logged in, your Phone will automatically update your local contacts information. To sync all your LinkedIn contacts information, from **Contacts** in LinkedIn settings screen, go to **Sync LinkedIn contacts** > **All LinkedIn contacts**, and select **Sync** or **Auto-update LinkedIn**.

View contacts information provided by LinkedIn: Open a LinkedIn contact and touch **View LinkedIn profile online**.

Disassociate LinkedIn contacts: Go to **Contacts** >  > **Settings** > **LinkedIn**, and select **Disassociate**.

View a Sender's Job Description

If you've just started a new job, you'll need to quickly figure out what all of your new colleagues do. You can associate a social media account (such as LinkedIn) with your email contacts. The job information of email senders will then be displayed on the email details screen.

From the  **Email** inbox, open an email you have received. Go to email details, then touch the sender's profile picture and select **View LinkedIn profile**.



Dialing

Basic Calling Functions

Make Emergency Calls


In an emergency situation, if your Phone is powered on and within the service area, you can make emergency calls even if the screen is locked or there is no mobile reception.





- ⚠ The emergency call feature is subject to your local regulations and Internet service provider. Network issues or environmental interference may lead to failed emergency calls. In emergency situations, do not rely on your Phone as your only method of communication.

Open  **Dialer** or touch **Emergency** on the lock screen, enter the local emergency number on the dialer, and then touch . If your location has strong mobile reception and your Phone is connected to the Internet with enabled location services, your location will be obtained and displayed on your screen for reference.

Enable Call Waiting to Never Miss Important Third-Party Calls


Receiving an incoming call while you're already on a call? Call waiting allows you to answer the new call and then switch between the two calls.



-  Some carriers may not support this feature.

Open  **Dialer**, go to  > **Settings** > **More**, and enable **Call waiting**. When receiving another call, touch  to answer the call and place your first call on hold. Touch  or the call on hold in the call list to switch between calls.

Enable Call Forwarding and Never Miss a Call



If you are unavailable to answer calls, you can set your device to forward calls to another number.

-  Some carriers may not support this feature.

Open  **Dialer**, and go to  > **Settings** > **Call forwarding**. If you have a dual-SIM device, in the **SIM 1** or **SIM 2** section, touch **Call forwarding** and select a forwarding method. Enter the number you want to forward your calls to, then confirm. When call forwarding is enabled, your device will automatically forward eligible calls to the preset number.

Activate International Roaming for Borderless Communication

When you travel abroad for work or a holiday, you can make calls when your Phone is roaming without having to dial the country code.

- 1 Contact your carrier to activate the international call or roaming service.
- 2 Open  **Dialer** or  **Contacts**, and make a call.


VoLTE

VoLTE: Make Calls and Use Data at the Same Time


VoLTE (Voice over LTE) allows both call and data services to be carried on the same 4G network, which means you can use the Internet even while making calls. VoLTE also provides you with shorter call connection times and higher quality voice and video calls.


Both of your Phone's SIM card slots support 4G, VoLTE, and VoWiFi, so there is no need to switch SIMs back and forth.

- **Dual 4G:** Both of your Phone's SIM card slots support 4G.
- **Dual VoLTE:** Both of your Phone's SIM card slots support VoLTE, allowing you to use the Internet while making HD calls.
- **Dual VoWiFi:** Both of your Phone's SIM card slots support VoWiFi, which allows calls to be made using Wi-Fi. You can use VoWiFi to make calls even in Airplane mode.


 Some carriers may not support this feature.

Enable VoLTE to Enjoy HD Calls

-  • Some carriers may not support this feature.
- Only dual-SIM phones support both SIM card slots enabling 4G, VoLTE, and VoWiFi.

Open  **Settings**, and go to **Wireless & networks > Mobile network**. In the settings section for SIM 1 or 2 (if supported by your carrier network), you can:

- **Enable 4G:** Turn on **4G**. Due to carrier customization, there may not be a **4G** switch on your device. This indicates 4G is already enabled and does not need to be turned on manually.
- **Enable VoLTE calling:** Turn on **VoLTE HD calls**.
- **Enable Wi-Fi calling:** Turn on **Wi-Fi calling**.

After the setting is complete, select the contact you want to call and touch  to make a video call.





You can also touch  on the screen during a voice call to switch to a video call.

Message

Basic Messaging Functions

Send Messages


Text messages give you a quick and easy way to communicate with friends, family and colleagues. In addition to text, you can also add emojis or insert pictures and audio files to enrich your messages.

Send a message: Open  **Messages**. From the Messaging list screen, touch  and select contacts or groups. Enter your message content, touch  to add other types of content, and touch  to send the message.


Save a draft message: Touch  **Back key** to save a message as a draft.


Manage Messages

The Messaging app makes it easy to stay on top of your messages.


Open  **Messages**. In the list of message threads, touch a contact name or phone number to view the conversation thread.

Reply to messages: Enter the message content in the text box and touch .

Archive a message: Worried about accidentally deleting an important message? Touch and hold a message and then touch  to archive the message.

Delete a message: Tired of the clutter created by too many messages? Delete unneeded conversations or messages to clean up your Messaging list. To delete conversations or messages, touch and hold the conversations or messages to enter the editing screen, select the conversation or message, and touch . Deleted messages cannot be recovered.

Search messages: Want to find a message quickly? From the Messaging list screen, enter the keywords in the search bar and the relevant results will be displayed beneath the search bar.



Block a contact: Want to stop someone from sending you spam messages? Touch and hold a message and then touch  to block the contact.


Camera

Basic Camera Functions


Use Basic Camera Features


Understand your camera's basic features to help you take better pictures.





Basic photo mode: Open  **Camera**. In the viewfinder, touch  to take a photo. You can also set the volume down key as a shutter button for your camera.


Select a camera mode: Open  **Camera**. In the viewfinder, choose a camera mode from the preinstalled ones.

Zoom your camera in or out: From the viewfinder, touch the screen with two fingers and pinch them together to zoom out or move them apart to zoom in. If you zoom in beyond your camera's optical zoom limit, the image quality will decrease. After you touch the screen with two fingers and zoom in or out, a zoom bar will appear on the side of the screen, with which you can also zoom your camera in or out.


Adjust your camera's exposure: Your camera will adjust its exposure automatically depending on the ambient light level. Increasing the exposure will make pictures appear brighter whereas decreasing the exposure will make pictures appear darker. You can adjust the exposure manually from the viewfinder by touching the screen and dragging the  icon up or down.

Enable or disable flash: Flash is used to provide extra lighting for taking photos in low light conditions. From the viewfinder, touch  to select one of the following flash modes:

-  **Auto:** The camera automatically enables or disables flash depending on the ambient light level.
-  **Off:** Disable flash.
-  **On:** Enable flash.
-  **Always on:** Flash is always on while you are in the viewfinder.

Capture smiles automatically: From the viewfinder, touch , and enable **Capture smiles**. The camera will now take a photo automatically when it detects a smile in the viewfinder.

Mute shooting: From the viewfinder, touch , and enable **Mute**.

Enable geolocation: Your geographic location will be recorded when you take a photo, and this allows you to search through your pictures by location. From the viewfinder, touch , and enable **GPS tag**.

Adjust Camera Settings



On the Camera setting screen, you can adjust a variety of camera settings, modes, and specifications to suit your needs.

Capture smiles automatically: From **Settings**, enable **Capture smiles**. The camera will now take a picture automatically when it detects a smile in the viewfinder.

Mute photography: From the **Settings** screen, enable **Mute**.

Use Assistive Grid to Compose Your Photos

Ever get annoyed that your photos turn out looking skewed or the subject always seems to be off-center? You can use your camera's assistive grid feature to help you line up the perfect shot.

To select an assistive grid, open  **Camera** and touch  to enter **Settings**. Then touch **Assistive grid** and select the type of grid or lines you want to use.

Rule of thirds composition method: Use either **Grid** or **Phi grid**. The four intersection points in the grid are the focus areas of the picture. Place the subject of your photo on one of the intersection points to achieve a good composition.








Spiral composition method: Use either **Fibonacci spiral (left)** or **Fibonacci spiral (right)**. Place the subject of your photo within the center of the spiral.



Use Portrait Mode to Take Stunning Portraits


Want to make your selfies or group shots even more beautiful? Portrait mode provides you with customized options to make every photo beautiful and memorable.

Enable Portrait mode and make your photos shine: Open  **Camera > Portrait**, and you can set the following parameters to make your photos shine. After making the adjustments, touch  to take photos.







- **Artistic bokeh:** If there is a light source in the background, touch the  icon in the viewfinder and enable the artistic bokeh effect.
- **Stage lighting:** Touch the  icon in the viewfinder and select a stage lighting effect.
- **Beauty effect:** Touch the  icon in the viewfinder and drag the slider left or right to adjust beautification settings. Larger parameter values will make the beautification effects more distinct.

Use AR lens to Add Effects to Your Photos

Tired of taking boring pictures? You can use **AR lens** to add a variety of stickers or change the background of your photos to make them look more interesting.

Open  **Camera > More > AR lens**.


There are several effects to choose from to make your photos stand out:





- **Taking group photos with your 3D objects:** Touch **3D objects** and select a 3D object that you like. Then touch  to take a group photo of you and your 3D object, or touch  and then touch  to record a video.
- **Adding customized effects for your photos or videos:** Touch **Gesture effects**, and then touch , , or . Then follow the onscreen instructions to add customized backgrounds to your photos or videos.

Use Panorama Mode to Take Panoramic Photos

Panoramas provide a wider viewing angle than ordinary photos, letting you take sweeping landscape shots.

To capture a panorama shot, the camera takes multiple photos of objects within our visual field and stitches them together into a single photo.







-  When taking a panorama, find a wide, open space that is some distance away from the subject and try to avoid backgrounds that are all in one color.

- 1 Go to  **Camera > More > Panorama**.
- 2 Touch  at the bottom of the screen to configure the shooting direction.
- 3 Hold your Phone steady, and then touch  to start shooting. Slowly move the Phone in the direction indicated, holding the device steady and ensuring that the arrow stays level with the center line.
- 4 Touch  when you are finished. The camera will automatically stitch the photos together to create a panorama.



Use 3D Panorama to Take 360-degree Photos

Try the 3D panorama function to capture a 360-degree view of a scene or person.

- **Shooting objects:** Go to  **Camera > More > 3D panorama**. Touch and hold  , then follow the onscreen prompts to slowly move your Phone around your subject in one direction. Release  to stop shooting. After shooting, touch the camera thumbnail, and then touch **3D** above the photo to generate a 3D panoramic photo.
- **Shooting scenery:** Go to  **Camera > More > 3D panorama**. Touch and hold  , then follow the onscreen prompts to slowly move your Phone around your subject in one direction. Release  to stop shooting. After shooting, touch the camera thumbnail, and then touch **3D** above the photo to generate a 3D panoramic photo.


After a 3D panorama has been generated, you can tilt your Phone or drag the photo to view the 3D effect.

Pro Mode

Use Pro Mode to Take Scenic Photos


Want to make your scenic photos more vibrant and interesting? Use Pro mode to take unique and personalized scenic photos.


Open  **Camera > Pro** to enter Pro mode.


Select a metering mode based on the shooting subject: On the Pro mode screen, touch  , and select a metering mode accordingly.


Metering mode	Application scenario
Matrix	Broad landscapes and seas
Center	The subject is in the center of the picture, and stands out from the background.
Spot	The subject to be highlighted in the picture is relatively small, such as a flower or a tree.





Adjust brightness based on the shooting environment:


- **Adjust ISO:** On the Pro mode screen, touch **ISO** , and swipe left or right on the ISO slider to adjust its value.
 -  To avoid excessive noises, the recommended ISO is below 400. The recommended ISO for the daytime is between 100 and 200 and above 400 for night scenes.
- **Adjust the shutter speed:** On the Pro mode screen, touch **S** (shutter speed), slide on the shutter speed slider, and drag your desired speed to the center.

 The recommended shutter speed for static scenes (such as mountains) is between 1/80 and 1/125; and faster (less than 1 second) for moving subjects (such as waves). For the best result, using a tripod when shooting a moving subject.


- **Adjust EV compensation:** On the Pro mode screen, touch , slide on the EV slider and drag the selected value to the center.


Adjust AWB: On the Pro mode screen, touch , slide on the AWB slider and drag the selected value to the center.


-  When shooting under sunlight, you can select . In a weak light environment, you can select .
- Touch  to adjust the color temperature. If you want to give your photo a cozy, nostalgic tone, increase the K value. For a cold, calm or futuristic tone, select a lower K value.

Adjust AF based on the shooting subject: On the Pro mode screen, touch , slide on the AF slider and drag your desired mode to the center.

AF modes	Application scenario
AF-S mode	Static scenes (such as mountains).
AF-C mode	Moving scenes (such as flowing water and sea waves).
MF mode	Protruding objects (such as a close-up of a flower).

Hold your device steady when shooting: In Pro mode, touch  and enable **Horizontal level**. After this feature is enabled, two horizontal guiding lines will appear in the viewfinder. When the dotted line overlaps with the solid line, it indicates that the camera is horizontally aligned.



Save RAW format pictures: In Pro mode, touch  > **Resolution**, and enable **RAW format**. After this function is enabled, pictures taken in Pro mode will be saved in both RAW and standard JPG formats.

-  Some settings in Pro mode may change after you change a setting. You may adjust them based on your actual needs.
- The recommended settings above are for reference only. You may adjust them based on the actual condition to achieve your desired effect.

Use Pro Mode to Capture Portraits

Want to take more professional portraits? The Pro mode allows you to adjust your camera settings to shoot professional portraits.

Open  **Camera > Pro**.



Select a Metering mode:  or  mode is recommended for taking portraits. Place your shooting subjects (their faces for example) in the center of the viewfinder.

Adjust brightness based on the shooting environment

- **Adjust ISO:** To avoid excessive noises, it is recommended that you adjust the ISO to a low level when shooting portraits. You may adjust the ISO based on the actual shooting environments.

Shooting Environment	Recommended ISO
Outdoors	Between 100 and 200
Indoors	Around 400
Night scenes	Between 400 and 800

- **Adjust shutter speed:** The shutter speed should be slow if the ambient light is low and fast when the ambient light is strong. The recommended shutter speed for static portraits is between 1/80 and 1/125. To shoot moving subjects, select a shutter speed at or above 1/125.
- **Adjust EV compensation:** You may increase the EV compensation if the light on the subjects or background is low, and decrease the EV compensation if there is too much light.



Adjust AWB: Select AWB depending on the lighting conditions. When shooting under sunlight, you can select . In a low light environment, you can select .

Adjust Focus: To better highlight a subject, it is recommended that you use manual focus (MF) when shooting portraits. In the viewfinder, touch to focus on the part (the subject's face for example) you want to highlight.

- In Pro mode, some settings may change after you change a setting. You may adjust them based on your actual needs.
- The recommended settings above are for reference only. You may adjust them based on the actual usage conditions to achieve your desired effect.

Take Black and White Photos

The world is an amazingly colorful place. But sometimes too many colors can be distracting. Monochrome mode filters out color, helping to bring out light and shadows, and give photos more mood and atmosphere.

Open  **Camera** > **More** > **Monochrome**, and then touch  to take photos in black and white.






Light Painting Mode

Use Tail Light Trails to Capture the Lights of the City

Tail light trails lets you create artistic photos of car tail lights at night.

- Shoot from a distance and slightly above your subject for best results. Ensure that car headlights do not point directly at the camera, as this can overexpose the image.
- Place your device on a tripod or solid surface so that it does not move during the exposure.




Open  **Camera > More > Light painting > Traffic trails**. Hold your Phone steady, and then touch  to start shooting. A preview of the image is displayed in the viewfinder. Touch  when you are finished.



Use Light Graffiti to Create Light Patterns

Light graffiti lets you create patterns or write words by moving a light source in front of the camera.

- Find a dark location away from other light sources and ensure that the subject's silhouette is not visible. Choose a suitably bright light source of an appropriate color, such as a small torch or glow stick.
- Place your device on a tripod or solid surface so that it does not move during the exposure.


Open  **Camera > More > Light painting > Light graffiti**. Hold your Phone steady, and then touch  to start shooting. A preview of the image is displayed in the viewfinder. Touch  when you are finished.





Use Silky Water to Capture Rivers and Waterfalls

Silky water lets you capture silky smooth photographs of waterfalls and rivers.

- For better results, find a stream or waterfall with lots of water.
- Place your device on a tripod or solid surface so that it does not move during the exposure.

1 Open  **Camera > More > Light painting > Silky water.**

2 Hold your Phone steady, and then touch  to start shooting.




3 A preview of the image is displayed in the viewfinder. Touch  when you are finished.



Use Star Track to Capture the Beauty of Stars

Star track lets you use your camera to capture the movement of stars in the night sky.

- For best results, choose a location free of light pollution with an unobstructed view of the sky, and on a clear night.
- Place your device on a tripod or solid surface so that it does not move during the exposure.




- 1 Open  **Camera > More > Light painting > Star trails.**
- 2 Hold your Phone steady, and then touch  to start shooting.
- 3 A preview of the image is displayed in the viewfinder. Touch  when you are finished.








Take Moving Pictures


Want to make your photos more interesting and dynamic? Take a moving picture and prolong life's wonderful moments.

With moving pictures, you can record a scene approximately one second before and after the shutter button is pressed. When browsing these pictures in Gallery, you can not only view the static picture taken the moment you press the shutter button, but also play the dynamic picture and sound.

Take moving pictures: Open  **Camera**, touch  on the top of your screen, then touch  to capture.

View moving pictures: The captured moving picture will be saved to **Gallery** in JPG format. Go to  **Gallery** > **Albums** > **Camera**. Touch pictures with  icon, and touch  on the top of the picture to view the dynamic effect. The moving picture automatically stops after a complete playback. You can also touch the screen to stop the playback.



Share Moving pictures: Go to  **Gallery** > **Albums** > **Camera**, touch the moving photo you want to share, then touch , select a sharing method and follow the onscreen instructions to complete the sharing.


-  Moving pictures can be shared directly through Wi-Fi, Bluetooth, Huawei Share, and more. The receiving device must be a Huawei device that supports the capture of moving pictures in order to play the moving photo effects. When you share moving pictures to third-party apps or unsupported devices, the moving pictures will be displayed as static images.


Gallery

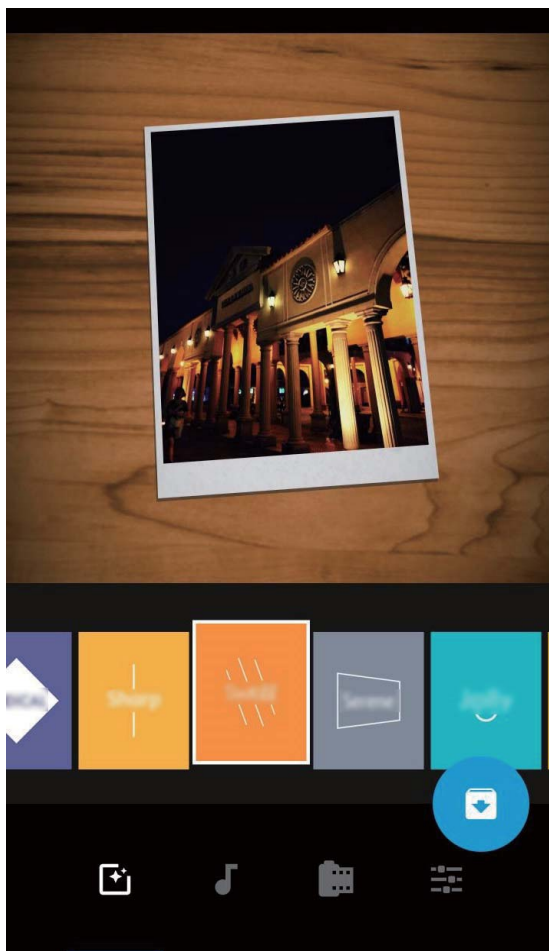
Customize Highlights Albums




Want to change the photos and videos in a Highlights album, the background music, or the video template of a Highlights video? You can edit a Highlights album by customizing photos and videos in the album and personalizing the generated video with the background music or template you like.


-  The Highlights album is generated based on the time and location of photos and videos. Your Phone will generate a video based on the time and location of photos. Before taking a photo, open **Camera**, touch  , and then enable **GPS tag**.
- Ensure that your Phone is connected to the Internet.
- When your Phone is charging in sleep mode and has more than 50% battery, it will automatically sort out photos or videos and create a Highlights album. It may take a while for your device to finish the analysis. Your device will not automatically create a Highlights album if there are insufficient photos or videos (fewer than 7 photos) in your Gallery.




Open  **Gallery**. From the **Highlights** tab, touch the Highlights album you want to view or edit. Afterwards, you can also perform the following:

- **Play or edit Highlights:** Touch  and you can edit the video's template or background music using the options bar at the bottom of the screen during playback.




- **Add or delete photos and videos in the album:** To add a photo or video, touch  and select the photo or video you want to add, then touch  to add the selected item into the album. To delete a photo or video, press and hold any photo or video in the album, then touch , and touch **Move** to delete the item from the album.


 Only videos in MP4 format can be added to the album.



- **Share photos and videos in the album:** Press and hold any photo or video in the album, then touch  to select a sharing mode and follow the onscreen instructions to complete the sharing process.
- **Rename a Highlights album:** Touch  and enter a new name.
- **Delete a Highlights album:** Touch , and then touch **Delete**.


Organize Photo Albums

Add photos or videos to a new album: From the **Albums** tab, touch **Add album**, enter an album name, and then touch **OK**. Select a photo or video and add the selected item to a new album.




Relocate photos and videos: You can move photos and videos from various locations to the same album for unified management and browsing. After entering the corresponding album, press and hold a photo or video until the  icon appears, then select the photos and videos you want to move.



Touch  , and select the album to move the items into. Once the items are moved, they will no longer be retained in their original locations.

Favorite photos and videos: Want to store your favorite photos and videos separately? You can Favorite your special photos and videos for easy viewing. Open the photo or video you want to Favorite, then touch  to store it in the **My favorites** album. The items you Favorite will remain in their original locations. However, a  icon will appear on their thumbnails.

Hide albums: Have important personal albums you don't want others to see? You can hide them to ensure personal privacy. From the **Albums** tab, go to  > **Hide albums** and turn on the switches for albums that you want to hide.

 Albums such as **Camera**, **Videos**, **My favorites**, and **Screenshots** cannot be hidden.



Delete photos and videos: Press and hold a photo or album until the  icon appears, select the items you want to delete, and then go to  > **Delete**. Deleted photos and videos will remain in the **Recently deleted** album, along with a tag indicating the number of days until the item is permanently removed from the system. To permanently delete a photo or video before it expires, from **Recently deleted**, select the photo or video you want to permanently delete and go to  > **Delete**.

Recover deleted photos and videos: Go to the **Recently deleted** album, press and hold a photo or video until the  icon appears, then select the items you want to recover, and touch  to recover them to their original albums. If the original album is deleted, the system will re-create a new album for you.

Phone Manager

Enable Smart Power-Saving Management to Optimize Power Consumption

Running out of battery at an inopportune time can cause many inconveniences. Smart power-saving management helps you to effectively extend the battery life of your Phone so that you can better enjoy your favorite games and other interests.

Open  **Phone Manager** and touch  to perform the following:

- **Comprehensive power consumption analysis and optimization:** Touch **Optimize battery usage** to check for power consumption problems and automatically optimize performance.
- **Enable Power-saving mode or Ultra power-saving mode:** Enable **Power saving mode** or **Ultra power saving mode**. Choose the appropriate power saving mode based on your Phone's battery level to extend battery life.
- **View power consumption details:** Touch **Power consumption details** to view power consumption details. In the Battery usage details section, the colored bars beneath **Charging** indicate the various points when you charge your device. Gaps between the colored bars indicate the various points when you were not charging your device. This feature does not consume power. Touch **Battery usage** to view power-intensive apps and hardware.
- **Enable smart resolution to save power:** Smart resolution is a function that automatically decreases the resolution of your device to save power. Enable **Screen resolution**, and select **Smart resolution**. Your device will automatically adjust the screen resolution based on the apps running in the background to save power. Enabling smart resolution may affect the display of the screen. You can also manually set the screen resolution to save power when high resolution is unnecessary.

To learn more about power saving settings, open  **Phone Manager** and touch  >  to perform the following:







- **Enable power-intensive apps notification:** Enable **Power consumption alert**, and you'll get notified when power-intensive apps are detected by your Phone. Then touch **Power-intensive app history** to check and manually disable such apps as you wish.
- **Display remaining battery percentage on the status bar:** Enable **Battery percentage** to display the remaining battery percentage of your device on the status bar.

Email

Manage Email Accounts



You can manage multiple email accounts concurrently on your Huawei Phone.

Open  **Email**. You can:

- **Check emails:** On the **Inbox** screen, touch , and then select an email account to view the list of your emails. Swipe down to refresh the list of emails. Open an email to read, reply, forward, or delete it. Swipe left or right on the screen to view the previous or next email. To delete multiple emails, touch and hold an email to go to the email management screen, select the emails, and touch .
- **Sync emails:** Swipe down on the **Inbox** screen to refresh the emails list. Go to  > **Settings**, touch an account, and then enable **Sync email**. To sync automatically, touch **Sync frequency** and select the syncing time to complete configuration.
- **Search emails:** On the emails list screen, touch the search bar, and enter a keyword, such as email subject and content.
- **Add multiple email accounts:** Go to  > **Settings** > **Add account**, select your email service provider, and enter your information.
- **Switch between email accounts:** On the accounts screen, touch , and then touch an account name to switch to.
- **Configure email accounts:** On the account screen, go to  > **Settings**, select an account to set **Account name**, **Default account**, and **Remove account**.

Set Auto Response for Exchange Email

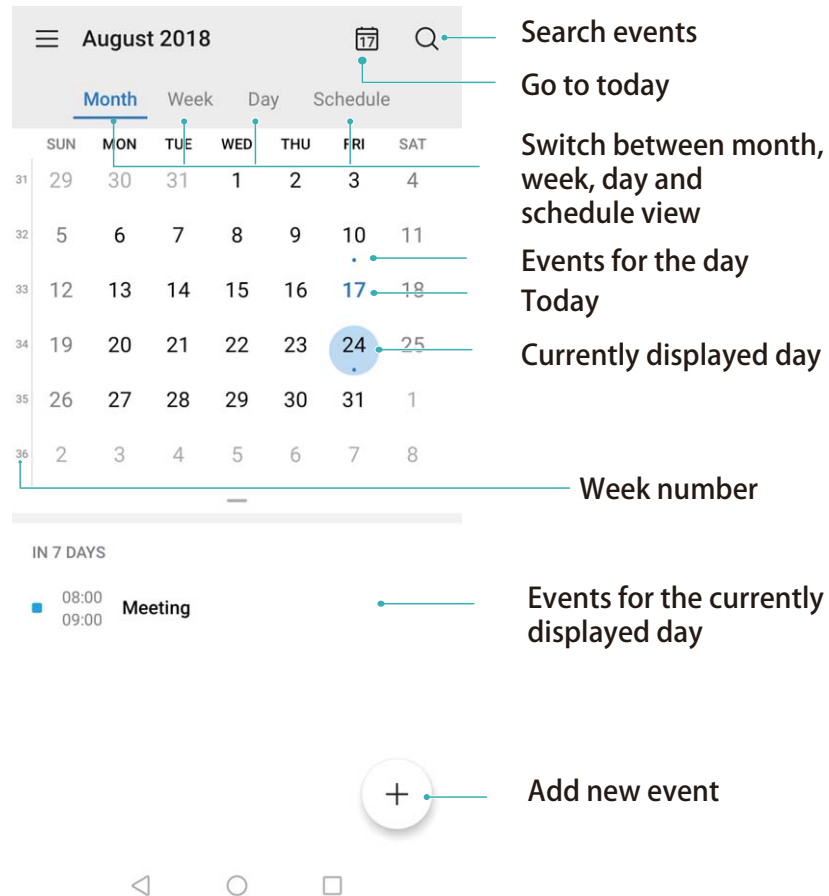
Unable to reply to emails on vacation? Enable auto responses to automatically reply to emails.




Open  **Email**, go to  > **Settings**, and select your Exchange account. Touch **Automatic replies**, enable **Automatic replies**, set the content and time of your auto reply, and then touch **Done**.


Calendar


Navigate the Calendar


Want to bring order to your busy life? Try using the app **Calendar** on your Huawei Phone to manage your daily schedule.




Create an event: Open  **Calendar**, touch , and enter your event information including title, location, and start and end times. Go to **Reminder** to add a reminder for your event, then touch .

Search events: On the **Calendar** page, touch  and enter the event keywords, such as title or location.

Configure Calendar: On the **Calendar** page, go to  > **Settings** to customize calendar display and reminders.

Check the exact location of the destination: Open  **Calendar**. In a view or schedule, touch the event where the destination has been set to view the exact location information about the event.




Query weather: Open  **Calendar**, and touch an event in a view or schedule to view the weather of the day in the event.

Check conference participants: Open  **Calendar**, and touch the conference reminder to view the participants.



Utilities

Use Recorder to Make Audio Notes

Have you ever felt like you do not have enough time to take important notes during a meeting? Do you need to sort out a pile of notes from an interview or class? Recorder lets you record audio files that you can conveniently play back later.

Open  **Recorder**, and touch  to begin recording. While recording, you can add tags at important points. Touch  to finish recording and save the audio file.

After the recording is completed, you can:


- **Play recording from tag:** In the recording file list, touch **New recording** , and then touch a recording to go to the play screen. On the play screen, you can then touch a tag that you have added and play the recording from that point.
 - **Manage recordings:** Touch and hold a recording for options such as sharing or deleting the recording.
-  In the recording file list, touch and hold a recording file, and then touch  > **Details** to view its storage location.


Multiple Users

Set and Use Multiple Users


Want to have more than one user account on your Phone to keep your work and personal life separate? You can add multiple users to your Phone and switch between them with a single touch.


Add Users or Guests

 A maximum of three users and one guest can be added.

Add a user: Touch  **Settings**, and go to **Users & accounts > Users**. Touch **Add user**, enter a name for the user and touch **ADD**. After you add a new user, you can switch to the new user and follow the onscreen instructions to configure the user's account settings.



Add a guest: Touch  **Settings**, and go to **Users & accounts > Users**. Touch **Add guest > ADD** to create a guest.

Set a user account name and profile picture: After adding a user, you can set a user account name and a profile picture for the user. To do this, switch to the relevant user, and touch . Follow the onscreen instructions to change the user name and profile picture.

Allow a user to make calls, send messages, and share call records: The basic call functions can still be used after you switch to a different user mode. The added new user can make calls, send messages, and share call records with the phone owner. The guest user can make calls and share call records with the phone owner. To do this, log in with the owner account, and touch  **Settings**, and then go to **Users & accounts > Users**. Select the desired user, and touch **Allow calls, messages, and sharing of communication history**.

Delete Users or Guests


To delete a user, select one of the following methods:


- Log in with the owner account, touch  **Settings**, and then go to **Users & accounts > Users**. Select the desired user, and touch **Delete user > Delete**.
- Log in with the owner account, swipe down from the status bar, and then go to  **> More settings**. Select the desired user, and touch **Delete user > Delete**.

To delete a guest, touch  **Settings**. Go to **Users & accounts > Users**, and then touch **Guest > Delete guest > DELETE**.

Switch Between the Owner Account, User, and Guest Modes

To switch between the owner account, user, and guest modes, select one of the following methods:

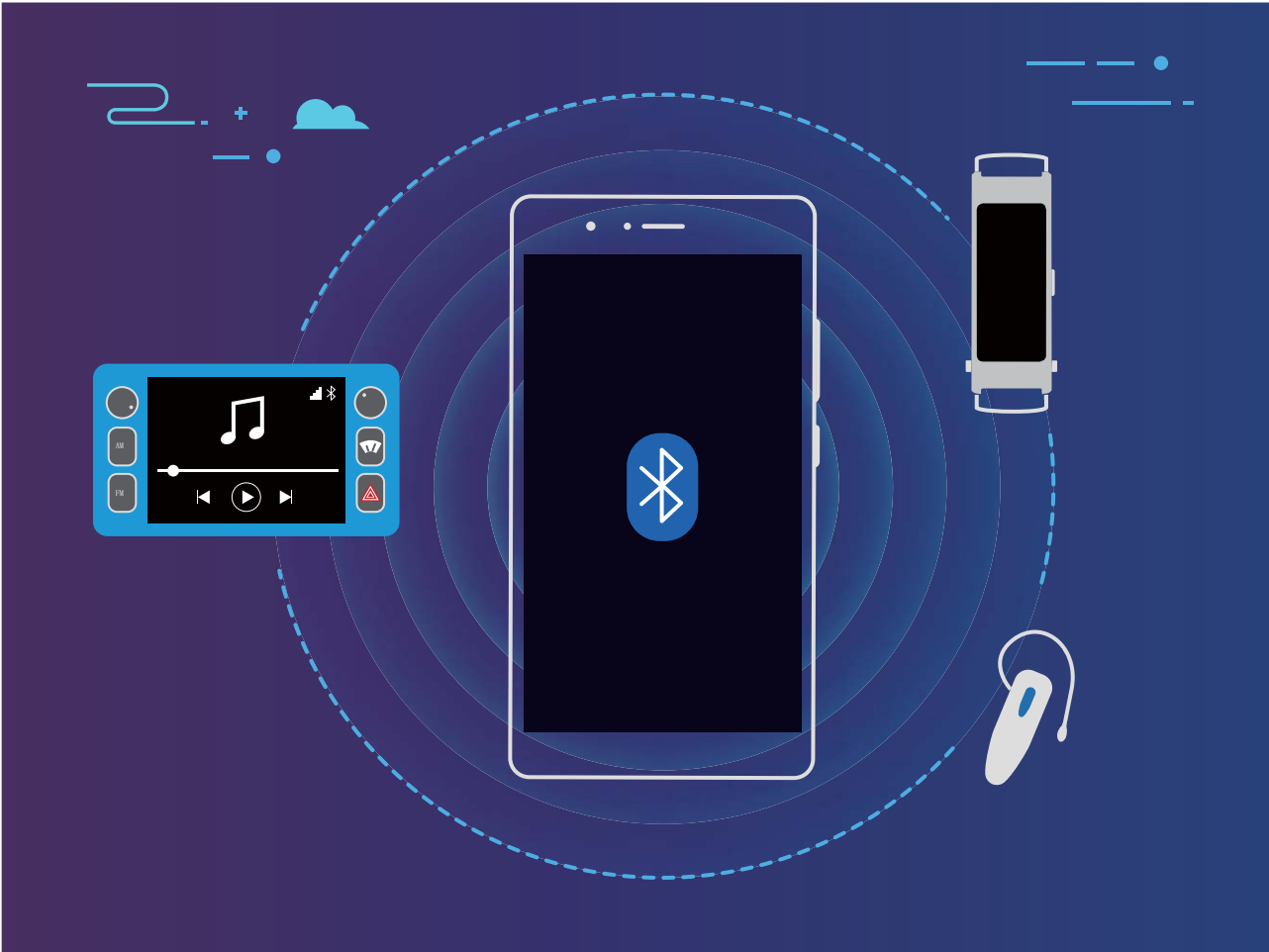
- Swipe down from the status bar, and touch . Then, touch the profile picture of the desired user.

- Touch  **Settings**, and go to **Users & accounts > Users**. Then, touch the user name or profile picture of the desired user.
- ⚠ You will be prompted to enter the password to unlock the screen when switching back to the owner from another user.

Device Connection

Connect Your Phone to Bluetooth Devices



Use Bluetooth to connect your Phone to Bluetooth headsets and in-car Bluetooth to navigate or listen to music while you drive. You can also connect your Phone to Bluetooth wearables to record and manage fitness data. Connecting Bluetooth devices to your Phone does not increase power consumption significantly.




Bluetooth protocols used by Huawei devices and their functions:

HFP, HSP	Make calls
A2DP	Play music
AVRCP	Control music playback
OPP	Transfer files
PBAP	Sync contacts
MAP	Sync text messages
HID	Operate Bluetooth keyboards and mouses


PAN	Tethering
BLE	Connect to Bluetooth Low Energy (BLE) devices

Enable or disable Bluetooth: From the home screen, swipe down from the status bar, open the shortcuts panel, and then touch  to enable or disable Bluetooth. Touch and hold  to open the Bluetooth settings screen.

Pair a Bluetooth device: Enable **Bluetooth** from the Bluetooth device's settings screen. Check that the Bluetooth device is set to visible. From **Available devices**, touch the device you want to pair and then follow the onscreen instructions to complete pairing.

Unpair a Bluetooth device: Enable **Bluetooth** from the Bluetooth device's settings screen. Touch  next to the name of the paired device and then touch **Unpair**.

Change Bluetooth device name: From the Bluetooth settings screen, enable **Bluetooth**. Touch **Device name**, enter a new name for the device, and then touch **Save**.


View Bluetooth help: From the Bluetooth settings screen, touch  to view information on how to establish Bluetooth connections with in-car systems, headsets, speakers, wearables, phones, tablets, and computers.


NFC

Use NFC to Share Data Quickly

NFC lets you share data across two devices quickly without the hassle of pairing. Simply place the NFC detection areas of both your devices in close proximity to each other, and then you can transfer files and other data quickly between the two NFC-enabled devices.



Use NFC to send data: Open  **Settings**, touch **Device connectivity** and enable **NFC** and **Huawei Beam**. Select the files you want to send and touch **Share** > **Huawei Beam**. Keep your Phone unlocked and the screen on. Place the NFC detection areas of both devices close together. Once a connection is established, the transmitting device will play an audio alert and minimize the sharing screen. Touch the transmitting device's screen to send files.

Receive files over NFC: Open  **Settings**, then touch **Device connectivity** and enable **NFC** and **Huawei Beam**. Keep your Phone unlocked and the screen on. Place the NFC detection areas of both devices close together. Once a connection is established, the transmitting device will play an audio prompt. After the prompt, please wait for the file transfer to complete. Received files are saved by default to the **Beam** folder of your **Files**.

-  If there is an option to enable **Read and write/P2P** on the NFC screen, ensure that it is enabled.
Features may vary depending on your carrier.

Use NFC to Quickly Establish Connections between Devices.

Place the NFC detection areas of two devices close together to quickly establish a Bluetooth or Wi-Fi connection between them. You can also use this method to establish a Wi-Fi Direct connection or share a Wi-Fi hotspot without searching for devices, pairing and entering connection details manually.



Using Bluetooth pairing as an example, enable NFC, Huawei Beam, and Bluetooth on both devices. Open the Bluetooth pairing screen on both devices and place the NFC detection areas of devices close together. When the sending device plays an audio prompt and content on the screen shrinks, follow the onscreen instructions and touch the screen on the sending device to establish a Bluetooth connection.

- i If there is a **Read and write/P2P** switch on the NFC screen, ensure it is also enabled. Features may vary depending on your carrier.

Desktop Mode

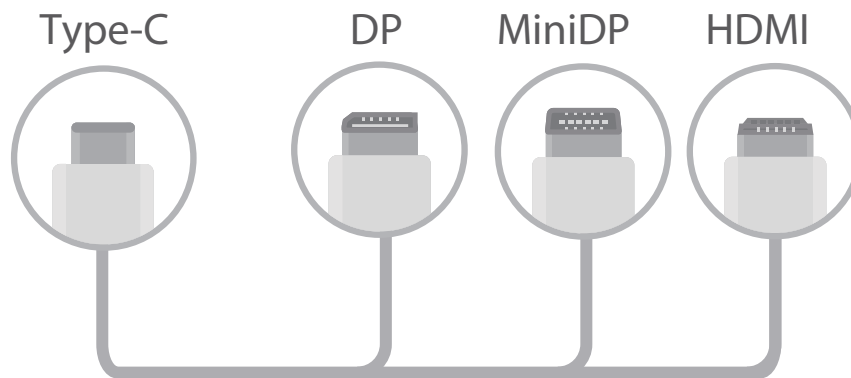
Connect Your Phone to an External Display


By using a cable, your Phone can be connected to an external display.


Use a docking station without USB ports to connect your Phone to an external display, or a docking station with USB ports to connect your Phone to a display, keyboard, and mouse simultaneously.

- **Docking station without USB ports:** supports the conversion of USB Type-C to one interface, such as USB Type-C to HDMI. If your external display has an HDMI port, use a USB Type-C to HDMI adapter to connect your device to the external display.
- **Docking station with USB ports:** supports the conversion of USB Type-C to multiple interfaces, such as USB Type-C to HDMI/USB/USB. If your external display has an HDMI port, but you also want to connect a mouse and keyboard to your device, use a USB Type-C to HDMI/USB/USB adapter.

Alternatively, use a USB Type-C to DisplayPort/HDMI cable to directly connect your device to the external display.




 If you connect the adapter to too many devices, it may not function properly.

-  • To ensure full compatibility, visit Vmall and buy an adapter that is designed to work with your device.
- When your Phone is connected to an external display via an adapter, you can plug the adapter into a charger to charge your Phone. The charger must meet Huawei's charging specification. Devices with a power output of less than 5 V/2 A should not be used.
- You can also use Bluetooth to connect a mouse or keyboard to your Phone directly.
- If the desktop screen does not fit onto the external display, go to the settings menu on the display device to change the image adjustment mode to automatic. You can also right-click the screen and adjust the screen mode you want on the desktop of the external display. The settings vary with TVs or projectors. The actual display of your TV or projector prevails.

In a wireless manner, your Phone can be connected to an external display.

By using one of the following methods, your Phone can be connected to an external display:

- If the external display supports Miracast, you can turn on the Wi-Fi of your Phone and connect your Phone to the external display.
- If the external display does not support Miracast, you can use a wireless HDMI adapter to connect your Phone and the display. Insert the wireless HDMI adapter into the HDMI interface of the external display and connect the power cable to the wireless HDMI adapter. After the wireless HDMI adapter works properly, open  **Settings** on your Phone, go to **Device connectivity > Easy Projection**, and enable **Wireless projection** to connect your Phone to the network of the wireless HDMI adapter.

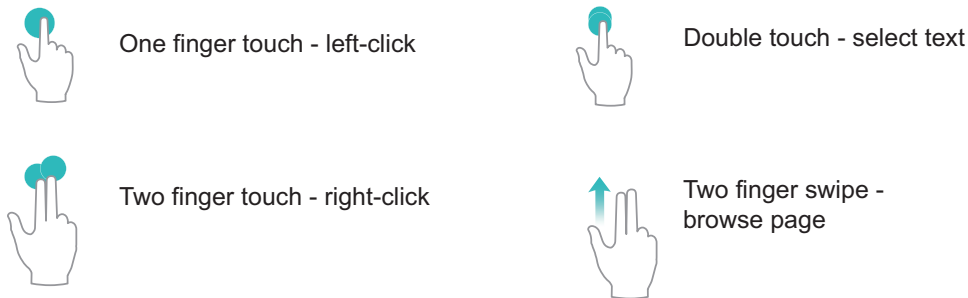
Drag down from the status bar on your Phone, or open the notification center on the external display to switch between **Phone** and **Desktop**.

Use Your Phone as a Touchpad


Now that you've connected your Phone to an external display, what happens if you don't have a keyboard or mouse with you? You can turn your Phone into a touchpad in a few simple steps.

Swipe down from the status bar of your Phone and touch **Virtual keyboard and mouse** in the notification panel. Use touch gestures to simulate mouse commands.

- Use touch gestures to simulate mouse commands.

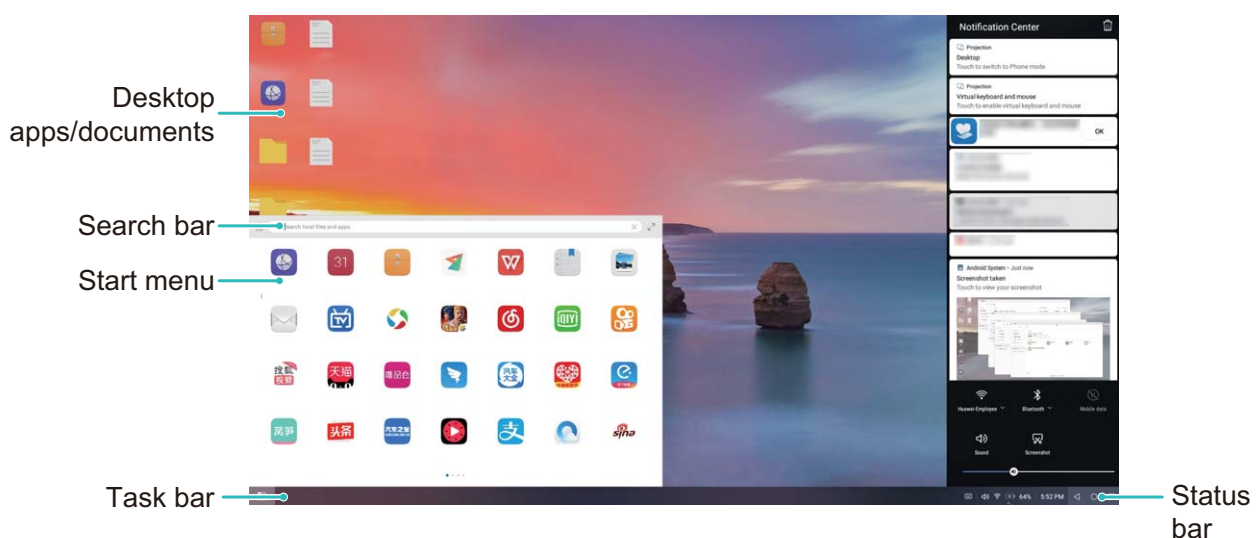


- Enter text using a virtual keyboard when an external keyboard is not connected.

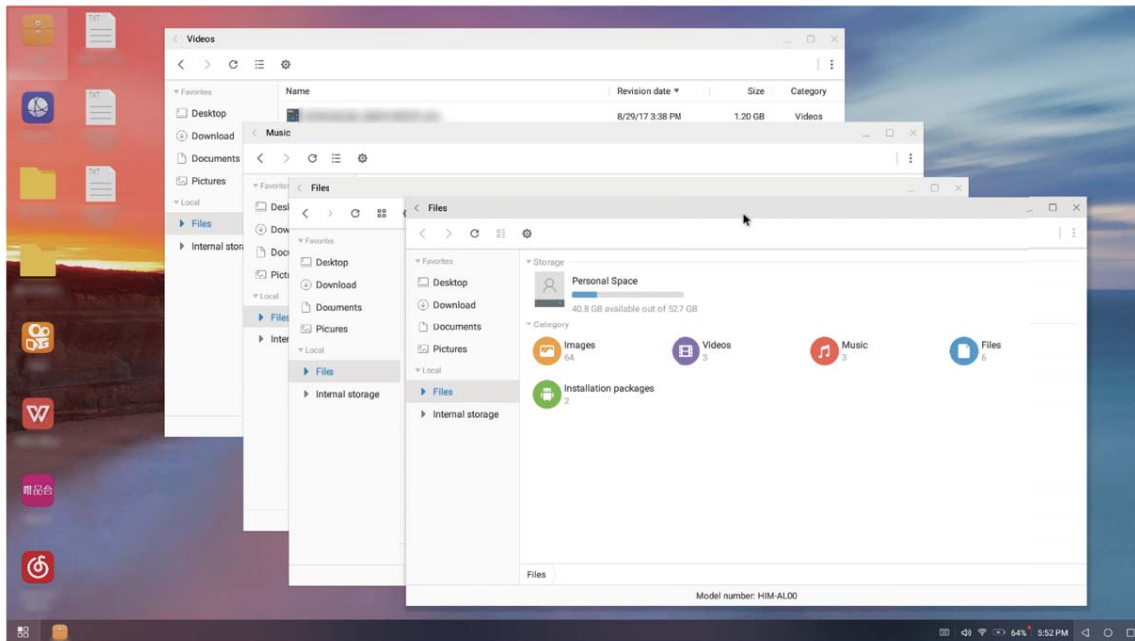
 The virtual keyboard is unavailable when an external keyboard is connected.

Project Your Phone Screen onto an External Display

Desktop layout: View content on your Phone in a desktop layout. Touch the signal status icon in the status bar to open the notification center; touch the time to open the calendar; or touch the onscreen navigation icons as you would in the navigation bar.



Multiple windows: When you're working on something important, open more than one window so that you can cross reference documents and increase your productivity.



File management: Manage your files conveniently. You can save files to the desktop, create new files or folders, and rename or delete files.

Quick search: Locate files in a flash. Search for documents, multimedia files, and start menu apps from the start menu search bar.

Change your desktop wallpaper: An inspiring desktop can brighten your mood and boost your productivity. Right-click the mouse on the desktop to change the desktop wallpaper.

Create app shortcuts: Want to open an app quickly from the desktop? From the start menu, you can touch and hold an app and then drag it to the desktop to create a shortcut. You can also right-click the app icon and choose Send to Desktop to create an app shortcut.

Audio output: Want to change the audio output device? You can select the external display or your Phone as an audio output device.

Large-screen conference: You can project a PPT on a large screen. With the touchpad, laser pointer, and fluorescent pen supported simultaneously, you can write directly on the PPT when it is projected on the large screen to make your presentation more vivid.

Quick app projection: On your Phone, touch and hold an app icon. After the projection menu is displayed, you can project the app to the large screen and open the app.

Separate management of screens: When using the external display for work, you can use online chat apps or answer calls on your Phone. The large screen can also be used for audiovisual entertainment.

Transfer Data between Your Phone and Computer

Use a USB cable to connect your Phone to your computer and transfer data.

Select USB connection mode

Use a USB cable to connect your Phone to the computer, you can then select a default connection method. You can transfer photos and files between your Phone and computer, or charge your Phone through the USB connection to your computer.

Swipe down from the status bar to open the notification panel, then touch **Settings** and select a method for connecting your device and your computer.

- **Transfer photos:** Transfer photos between your Phone and computer.
- **Transfer files:** Transfer files between your Phone and computer.
- **Charge only:** Charge your Phone with just a USB cable.
- **Reverse charging:** Connect your Phone to another device with a USB Type-C cable to charge the other device.
- **Input MIDI:** Use your Phone as a MIDI input device and play music on your computer.

Transfer data over a USB port

Connect your Phone to your Computer using a USB cable to transfer data and perform other tasks.

- **Transfer files:** Media Transfer Protocol (MTP) is a type of transmission protocol for media files. You can transfer files between your Phone and computer using this connection method. First, install Windows Media Player 11 or later on your computer.

Swipe down from the status bar to open the notification panel, and then set your USB connection method to **Transfer files**. Your computer will automatically install the necessary drivers. After the installation is complete, click the new drive icon named Phone on the computer to view the files on your Phone. You can use Windows Media Player to view the media files on your Phone.

- **Transfer images:** Picture Transfer Protocol (PTP) is a protocol that allows you to transfer images. You can upload and share photos between your Phone and computer using this connection method.

Swipe down from the status bar to open the notification panel, and then set your USB connection method to **Transfer photos**. Your computer will automatically install the necessary drivers. After the installation is complete, click the new drive icon named Phone on the computer to view the images on your Phone.

- **Transfer MIDI data to your Phone:** MIDI (Musical Instrument Digital Interface) is an industry standard audio format for composing music established by electronic instrument manufacturers. Swipe down from the status bar to open the notification panel, and then set your USB connection method to **Input MIDI**. You can then use Phone to receive and process MIDI messages transmitted by other devices.


Security and Privacy

Face Unlock

Enroll Your Facial Information to Enable Face Unlock


Face unlock allows you to quickly unlock your Phone by holding it up to your face.

- ⚠️ • Only the owner can enable Face unlock. This feature is not available for users or guests, and not supported in PrivateSpace either.
- Face unlock is not available if the screen unlock password has not been entered for three or more days in a row, or if your Phone has been remotely locked, or has been restarted.
- When using Face unlock to unlock your Phone, keep your eyes open, face yourself directly towards your Phone, and keep your face at a distance of 20 cm (7.87 in.) to 50 cm (19.69 in.) from your device. In order to scan your face accurately, avoid using this feature when you are in a dark environment or when facing direct light.


- 1 Open  **Settings**. Go to **Security & privacy > Face recognition** and enter your screen unlock password.
- 2 You can select **Enable Pick up to wake to enhance the Face unlock experience**. In this case, your Phone will turn on the screen and identify your facial features to unlock the screen automatically whenever you pick up your Phone and hold it to your face. If you do not wish to use this feature, you can disable this option. Touch **Enroll face** and follow the onscreen instructions to enroll your face.
- 3 Methods to set Face unlock:
 - **Direct unlock**: Turn on the screen. Your Phone identifies your facial features and unlocks the screen.
 - **Swipe to unlock**: Turn on the screen. After your Phone identifies your facial features, swipe the lock screen to unlock your device.
 - **Smart display of lock screen notifications**: Enable **Slide to unlock** and **Smart lock screen notifications**. On the lock screen, your Phone hides notification details by default and displays them only after identifying the device owner's face.
 - **Access app lock**: Enable **Access app lock** to access apps and locked apps using Face unlock.



Delete Face Data

If you no longer use Face unlock or want re-input your face data, you can delete the current face data.

Open  **Settings**, go to **Security & privacy > Face recognition**, follow the onscreen instructions and enter the lock screen password, then touch **Delete facial data** and follow the onscreen instructions to delete your current face data.

Pick Up to Unlock

Open  **Settings**, and go to **Security & privacy > Face recognition**. When enrolling facial data, select **Enable Pick up to wake to enhance the Face unlock experience**, and set the Face unlock method to **Direct unlock**. Once the setup is complete, you can simply raise your Phone to unlock the screen, without a password or fingerprint.

If you haven't selected **Enable Pick up to wake to enhance the Face unlock experience** when enrolling facial data, you can open  **Settings**, go to **Security & privacy > Face recognition**, and set the Face unlock method to **Direct unlock**. Then, open  **Settings**, go to **Smart assistance > Motion control > Pick up**, and select **Wake device**.

Fingerprint

Fingerprint Recognition: Enjoy Faster Navigation and Enhanced Security

Fingerprint recognition not only allows you to unlock your Phone faster, it also provides added security to your personal information.

You can use your fingerprint to:


- **Unlock your screen with a single touch:** Want to avoid the hassle of using PIN codes and patterns to unlock your screen? Use your fingerprint to quickly and securely unlock your screen with a single touch.
- **Access your private files:** Afraid of forgetting your password for the Safe or app lock, or having it fall into the hands of someone you don't trust? Set fingerprint access for the Safe and app lock to keep your files and apps secure and accessible by only you.



Enroll a Fingerprint

You can enroll a fingerprint on your Phone and then use your fingerprint to unlock your screen or access your Safe or App Lock without a password.


- ⚠ • Fingerprint unlocking is only available when your unlock method is set to **Pattern, 4-digit PIN, Custom PIN, or Password**. You will be required to unlock your Phone using the screen unlock password after the device is restarted or if your fingerprint is not recognized.
- Before enrolling a fingerprint, make sure your finger is clean and dry.

- 1** Open  **Settings**.
- 2** Go to **Security & privacy > Fingerprint ID > Change unlock method**, select **Pattern, 4-digit PIN, Custom PIN, or Password**, and then follow the onscreen instructions to set an unlock password.
- 3** Once you have set an unlock password, touch **New fingerprint** to enroll a fingerprint.
- 4** Place your fingertip on the fingerprint sensor. Press down lightly on the sensor until your device vibrates. Repeat this step using different parts of your fingertip.
- 5** After enrollment is complete, touch **OK**.

To unlock the screen, simply place your fingertip on the fingerprint sensor.


Add or Modify a Fingerprint

You can enroll a maximum of five fingerprints on your device. You can also delete or rename your fingerprints.


- 1 Open  **Settings**.
- 2 Go to **Security & privacy > Fingerprint ID**.
- 3 Enter the screen unlock password and then follow the onscreen instructions to enter the fingerprint configuration screen.
- 4 In the **Fingerprint list** section, you can:
 - **Enroll a new fingerprint:** Touch **New fingerprint** to enroll a new fingerprint.
 - **Rename or delete a fingerprint:** Touch a previously enrolled fingerprint to rename or delete it.
 - **Identify a fingerprint:** Touch **Identify fingerprint** to identify and highlight enrolled fingerprints.

Use a Fingerprint to Quickly Access Private Information

Tired of having to enter a password each time you want to access private information in your Safe or a locked app? You can use your fingerprint to quickly access your private information. This method is convenient and safe.


- 1 Open  **Settings**.
- 2 Go to **Security & privacy > Fingerprint ID**.
- 3 Enter the screen unlock password and then follow the onscreen instructions to enter the fingerprint configuration screen. Enable **Access safe** and **Access app lock**, and then follow the onscreen instructions to enter the passwords.

Now you can:


- **Use a fingerprint to access the Safe:** Open  **Files** and touch **Safe**, you can then access the Safe using your fingerprint.
- **Use a fingerprint to access apps locked by App lock:** You can now open locked apps on your home screen using your fingerprint.

Enable or Disable Location Services

After obtaining the location information permission, apps can obtain your location at any time. If your location information is obtained by a malicious app, you may be at risk of harm or fraud. You can enable or disable location services as needed and regularly monitor and manage the allowed permissions for your apps to protect your privacy and security.

Enable or disable location services: Open  **Settings**, go to **Security & privacy > Location access**, and enable or disable **Access my location**. When location services are disabled, aside for pre-installed software, your Phone will stop all apps and services from collecting and using your location information. The system will ask you to enable location services when you attempt to use these apps.

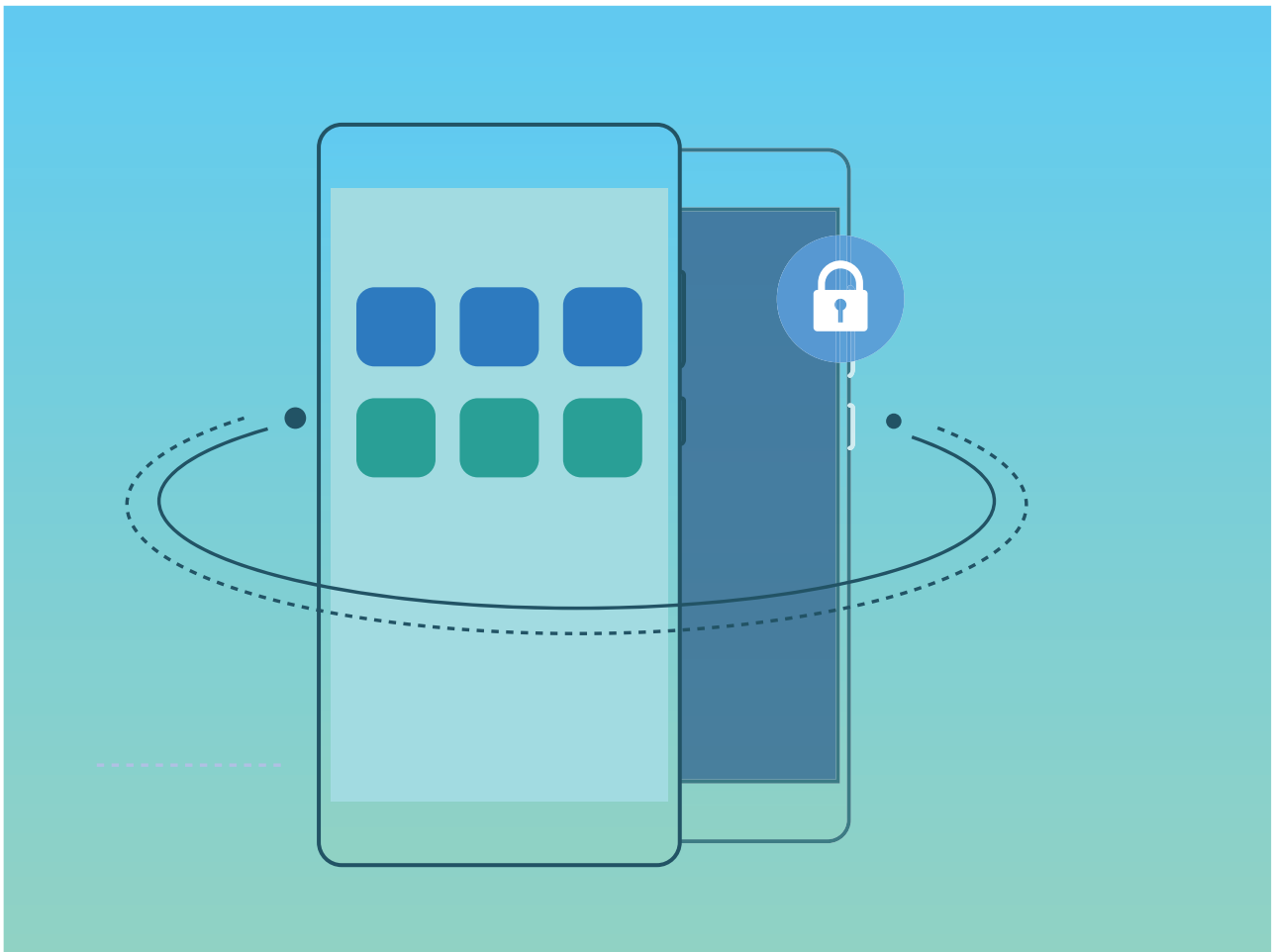
- Features may vary depending on your carrier.
- Huawei only uses location data to provide you with necessary functions and services, not for the purpose of identifying and collecting your private information.

Set indoor positioning assistance: Open  **Settings**, go to **Security & privacy > Location access > Advanced settings**, and enable or disable Wi-Fi and Bluetooth scanning. Scanning Wi-Fi networks and Bluetooth devices will improve the accuracy of indoor positioning.

PrivateSpace


PrivateSpace: Keep Your Private Information Hidden

PrivateSpace is a feature that allows you to create an independent space on your Phone to store your private information. Files and apps stored in PrivateSpace cannot be accessed from the MainSpace.




PrivateSpace provides you with the following features:

- **Hide access to your PrivateSpace:** Want to keep your PrivateSpace hidden from other people? You can hide access to your PrivateSpace in the MainSpace to keep your PrivateSpace out of sight.
- **Quickly switch between MainSpace and PrivateSpace:** From the lock screen, you can quickly switch between spaces using different fingerprints or passwords. The Wi-Fi and Bluetooth information set in the MainSpace or PrivateSpace can be automatically identified and connected in other spaces.

- **Transfer files between MainSpace and PrivateSpace:** You can transfer private files (such as pictures and videos) between MainSpace and PrivateSpace.
 - **Reset the PrivateSpace password:** It is understandable to forget passwords occasionally. To reset your PrivateSpace password, you can enable password protection function by entering your MainSpace password and answering security questions.
 - **PrivateSpace data backup:** Use the space clone function in the PrivateSpace to copy your PrivateSpace to another device.
-  If you want to switch directly to PrivateSpace from the lock screen using a password or fingerprint, the PrivateSpace password must be of the same type as your MainSpace password with a different content, or else you will not be able to access PrivateSpace from the lock screen.



Hide the Entrance to Your PrivateSpace

Want to keep all traces of your PrivateSpace hidden from other people? You can hide the entrance to your PrivateSpace in the MainSpace, keeping your PrivateSpace hidden and secret.

After entering your PrivateSpace, open  **Settings**, go to **Security & privacy > PrivateSpace**, and enable **Hide PrivateSpace**. After you hide the entrance to your PrivateSpace, you can only enter the space by using your fingerprint or password on the lock screen.

Transfer Files Between Your PrivateSpace and MainSpace


Want to quickly transfer private photos, music, or videos to your PrivateSpace, or from your PrivateSpace to your MainSpace?




- 1 After entering your PrivateSpace, open  **Settings**, and go to **Security & privacy > PrivateSpace**.
- 2 Touch **MainSpace to PrivateSpace** or **PrivateSpace to MainSpace**.
- 3 Follow the onscreen instructions to select the files and transfer them to the target location.
 -  Files stored on your device or memory card can be transferred from your MainSpace to your PrivateSpace, but only files stored locally on your device can be transferred from your PrivateSpace to your MainSpace. This is because memory cards are blocked in PrivateSpace. Files stored in the cloud cannot be transferred between your PrivateSpace and your MainSpace. Not all devices support memory cards.

By default, transferred image files are stored at **Gallery > Shared images**, video files are stored at **Gallery > Shared videos**, and audio files are stored at **Files > Move files > Share audio**.

Transfer Your PrivateSpace Data to Your New Device


You can clone your PrivateSpace to quickly transfer your private files to another device.

-  • Before transferring your data, ensure that the new device has enough storage space remaining.
- You can transfer the following data from one device to another: pictures, audio files and videos.


- 1 Enter PrivateSpace on your new device and open  **Settings**. Go to **Security & privacy > PrivateSpace > Space Clone > THIS IS THE NEW PHONE** to generate a QR code.
 - 2 Enter PrivateSpace on your old device and open  **Settings**. Go to **Security & privacy > PrivateSpace > Space Clone > THIS IS THE OLD PHONE**. Follow the onscreen instructions to scan the QR code displayed on your new device. Alternatively, connect your old device to your new device's Wi-Fi hotspot manually. After establishing a connection, select and transfer data from your old device to your new device.
-  You can cancel the file transfer anytime during the transfer process and continue your progress when you re-establish a connection.



Reset Your PrivateSpace Password



You can set a security question so that when you forget your PrivateSpace password, you can answer the security question to quickly reset your PrivateSpace password.

Enable the security question feature: Enter your PrivateSpace and open  **Settings**. Go to **Security & privacy > PrivateSpace**. Touch **Password protection** and follow the onscreen instructions to enter your MainSpace and PrivateSpace passwords. Enter the set security question screen.

Set your security question: Touch the security question and either select one of the preset security questions or create your own. Enter the security question answer and touch **Finish** to enable the security question feature.


-  After you enable the security question feature, you can also modify the security question and its answer.

Modify your PrivateSpace password: Enter the MainSpace, open  **Settings** and go to **Security & privacy > PrivateSpace**. Touch  **> Reset password**. Follow the onscreen instructions to enter your MainSpace password, security question answer, and then set your PrivateSpace password.


-  • In case the entrance to PrivateSpace is hidden and you cannot enter the reset PrivateSpace screen, enter the MainSpace and open  **Settings**. Go to **Security & privacy > More settings > Show all settings** and touch **OK** to display the entrance to PrivateSpace.


Enable App Lock

App lock allows you to set a password for your important apps. Once you restart your Phone or unlock the screen, you will be asked to enter your App lock password when opening the apps for the first time. App lock enhances the protection of your private information and prevents unauthorized access to important apps on your device.

Enable App lock: Open  **Settings**. Go to **Security & privacy > App lock**. When you access the app for the first time, follow the onscreen instructions to set the password and enter the app lock. In subsequent access, you can directly enter the app lock password. On the App lock screen, enable App

lock for the apps you want to protect. When accessing a locked app for the first time, you need to enter the password in the password text box. If you forget the password, touch **Forgot password**, enter the answer in the password protection question box, and reset the password. If you have not set the password protection, the **Forgot password** option is not available.

-  If you have set up a fingerprint and facial recognition to unlock your Phone and are opening App lock for the first time, you can follow the onscreen instructions to associate your fingerprint and facial recognition with App lock for easier app unlocking.

Modify your App lock password and password protection: Touch  on the App lock screen, and then touch **Change password** or **Change password protection** to modify your App lock password or password protection.

Backup and Restoration

Restore Your Backup Data

You need to select the corresponding method to the original backup method to restore the data on your Phone.


- 1** Open  **Settings**, then touch **System > Back up & restore > Data backup > external storage**.
- 2** Select the location from which your backup data will be restored:
 - a** If you are using a USB storage device for backup, ensure that your Phone has been connected to a USB storage device. Then touch **USB storage** and select an appropriate backup record to access.
 - b** If you are using a shared folder for backup, ensure that your Phone has detected the shared folder on your computer or home NAS devices through Wi-Fi scanning. Then touch **Shared folder** and select an appropriate backup record to access.
-  Your Phone stores the last three backup records (including automatic and manual backups). When there are more than three backup records, the earliest records will be deleted.
- 3** Select the data you want to restore and touch **Restore**. If you have enabled **Encrypt backups**, enter the password as prompted and restore your data.

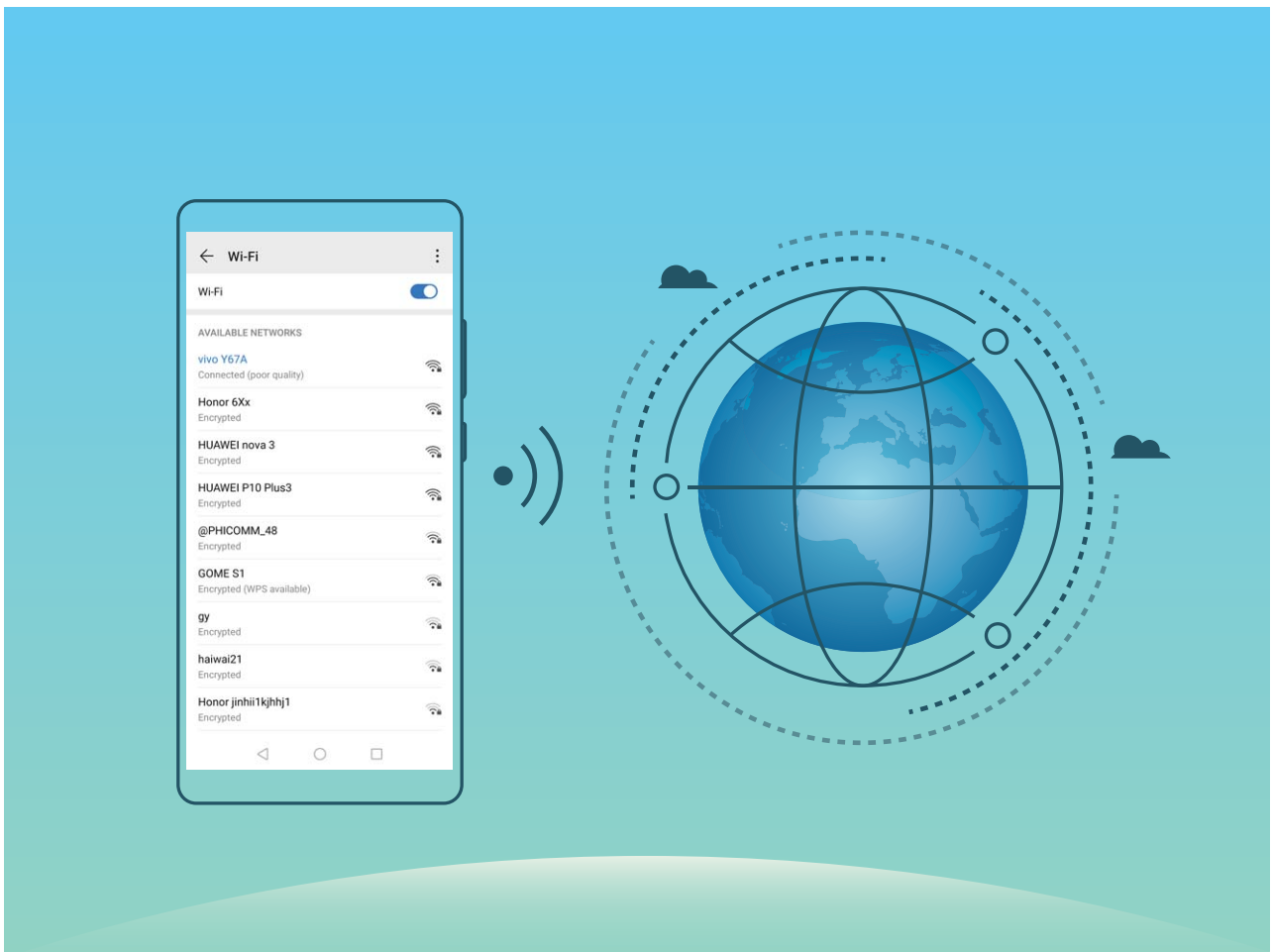
Wi-Fi and Network


Wi-Fi

Connect to Wi-Fi

By connecting your device to a Wi-Fi network, you can effectively save mobile data.

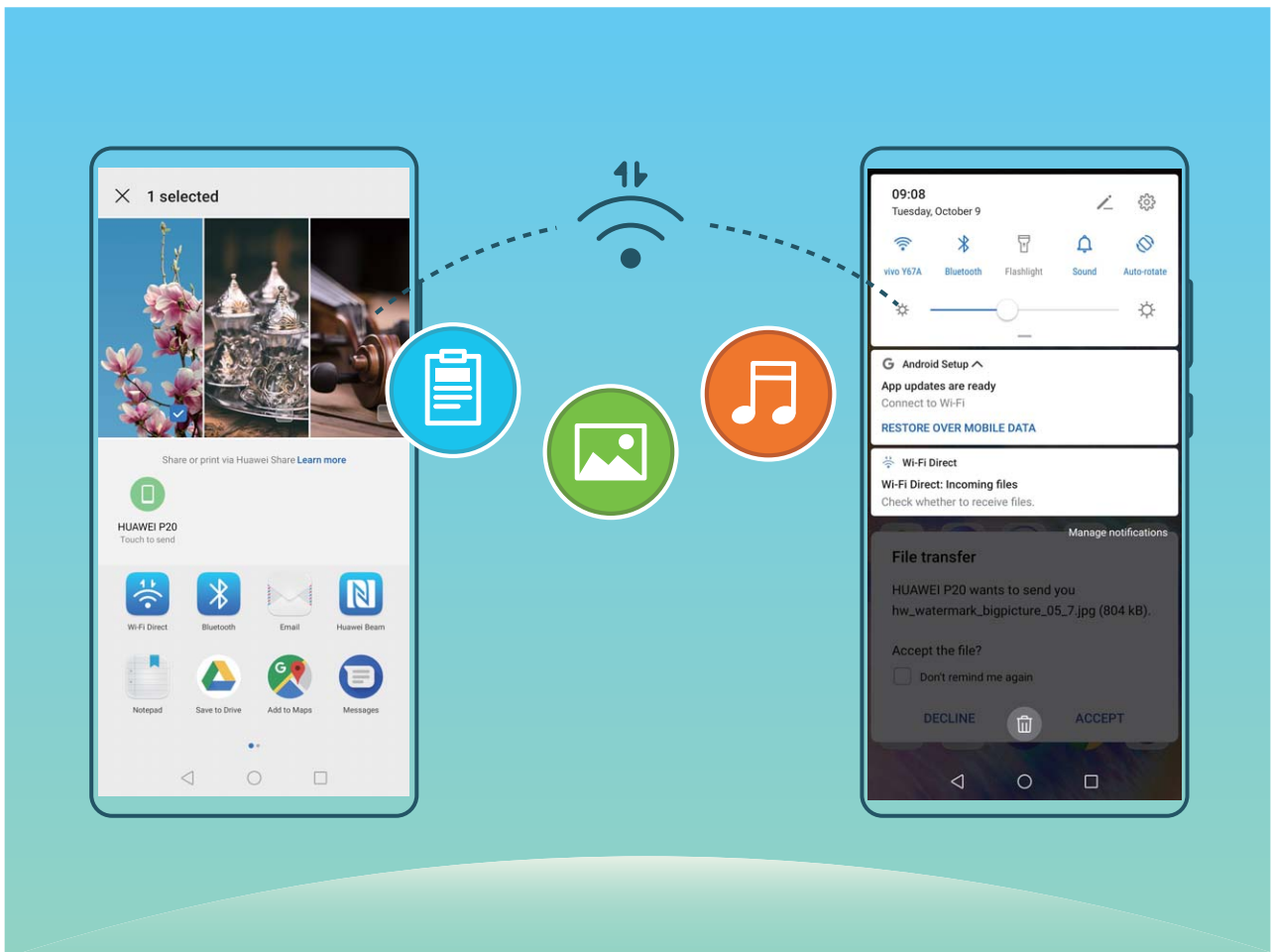
-  To avoid potential security risks (such as unauthorized access to your personal data and financial information), please exercise caution when connecting to a public Wi-Fi network.





Connect to a Wi-Fi Network: Open  **Settings**, go to **Wireless & networks > Wi-Fi**, and enable **Wi-Fi**. Touch a Wi-Fi network to access it, and enter the network password or complete the authentication if required. Alternatively, you can scroll to the bottom of the menu, touch **Add network**, and follow the onscreen instructions to add a network hotspot by entering its name and password.

Transfer Data Using Wi-Fi Direct

Wi-Fi Direct allows you to rapidly transfer data between Huawei devices. Wi-Fi Direct is faster than Bluetooth and does not require devices to be paired. It is better suited to transferring large files over short distances.




Send files with Wi-Fi Direct: Open  **Files**, touch and hold a file you want to send, and go to **More > Share > Wi-Fi Direct**. When another device is detected, touch its name to establish the connection and begin file transfer.

Receive files with Wi-Fi direct: Enable **Wi-Fi**. In the Wi-Fi settings screen, touch  > **Wi-Fi Direct** to enable detection. When you receive an incoming file prompt, touch **Accept** to begin the transfer. The received file will be saved under **Files** in the **Wi-Fi Direct** folder by default.


Turn Wi-Fi+ On or Off

Open  **Settings**, go to **Wireless & networks > Wi-Fi >  > Settings > Wi-Fi+**, and choose to enable or disable **Wi-Fi+**.

-  • Your Phone will automatically connect to the optimal network available after Wi-Fi+ is enabled.
- Wi-Fi+ may automatically switch to your mobile data network, depending on strength of Wi-Fi+ signals in your area. Note that using mobile data to download or view videos and other large files may incur additional data usage fees. To avoid excessive data charges, purchase an appropriate data plan.
- After Wi-Fi+ is enabled, even if Wi-Fi is disabled manually, the device may automatically switch to a Wi-Fi network when it detects a viable Wi-Fi network you have previously connected to.


Configure the Dual-SIM Settings

Use the dual SIM settings to enable and disable SIM cards and configure which card to use for mobile data and calls.

If your Phone has two SIM cards, go to  **Settings** and touch **Wireless & networks**. Touch **Dual SIM settings** to configure the settings for each card. If you disable a SIM card, you will be unable to use it to make calls, send messages, or access the Internet.

Enable the secondary SIM card to access mobile data during calls: If your Phone and secondary SIM card support VoLTE (Voice over LTE), enable **Internet access during calls** and **Dual SIM 4G** to access mobile data during calls.

Note: You cannot use both cards for calls and data services at the same time. To avoid missing calls, go to **Settings > Wireless & networks > Dual SIM settings**, and configure **Enable call forwarding between SIMs**. Calls made to the mobile data card will be automatically forwarded to the calling card.


 Some carriers may not support this feature.


Share Your Mobile Network with Other Devices



Have extra mobile data at the end of the month? You can share it with your friends.





You can use Wi-Fi hotspot or Bluetooth to share your mobile data with other devices.

Use Wi-Fi hotspot to share mobile data: Open  **Settings** and go to **Wireless & networks > Tethering & portable hotspot > Portable Wi-Fi hotspot > Configure hotspot**. Set the network name, encryption type, and password for the Wi-Fi hotspot, then touch **Save** and enable the hotspot to use it.

 **Worried other devices will have unlimited access to your hotspot data?** On the **Portable Wi-Fi hotspot** screen, touch **Data limit** to set the data limit for a single session. When the data sharing limit is reached, your device will automatically disable the hotspot.

Use Bluetooth to share mobile data: Establish a Bluetooth connection between devices before using Bluetooth to share your mobile data. Open  **Settings**, go to **Wireless & networks > Tethering & portable hotspot**, and enable **Bluetooth tethering**. On the **Bluetooth** screen of the paired device, touch  next to the paired device, and enable **Internet access** to establish an Internet connection and share your mobile data.


Use USB to share mobile data: Use a USB cable to connect your device to a computer. Open  **Settings**, go to **Wireless & networks > Tethering & portable hotspot**, and enable **USB tethering** to start sharing your mobile data.


 Depending on the operating system, you may need to install drivers or establish the relevant network connection on your computer before using this function. Refer to your computer's operating system guide for more information.

Apps and Notifications

App Twin: Log In to Two Social Media Accounts at Once

Have you ever wished you could log in to two WeChat and Facebook accounts on your Phone without the hassle of constantly switching between them? App twin lets you log in to two WeChat and Facebook accounts at the same time, allowing you to keep your work and private life separate.


-  The App twin feature is currently limited to WeChat, QQ Messenger, LINE, Facebook, Snapchat, WhatsApp, and Messenger. Please download and install the latest version of these apps before using the App twin feature.


Touch  **Settings**, and go to **Apps > App twin**. Enable App twin as required.

When App twin is enabled for an app, two app icons are displayed for the app on the home screen. This means that you can log in to two accounts at the same time. Touch and hold the twinned app icon on the home screen to quickly disable App twin.

Customize App Permissions to Use Your Phone Your Way

Worried about third-party apps obtaining too many important permissions and disclosing your personal information? You can monitor the permissions of each app and deny unwanted permissions.


-  Disabling a permission may cause an app function to become unavailable. For example, if the location permission for a map app is disabled, the app will be unable to provide you with location and navigation services.


Set app permissions: Want to deny unwanted permissions? Open  **Settings**, and go to **Apps > Permissions**. From the **Applications** tab, select an app and deny the unwanted permissions, for example, disable **Microphone** or **Camera**.

Sound and Display

Configure Do Not Disturb Mode

Do not disturb mode blocks calls from strangers and only notifies you when you receive calls and messages from chosen contacts.

Open  **Settings** and go to **Sounds > Do not disturb**. Toggle on the **Do not disturb** switch, then touch **Do not disturb mode** and select one of the following options:


- **Allow calls and messages from important contacts:** Select **Allow priority interruptions only**, and then touch **Define priority interruptions** to configure which contacts can call or message you.
 - **Allow alarm ringtones:** Select **Alarms only** to only allow alarm ringtones.
 - **Disable all interruptions:** Select **Don't interrupt** to disable ringtones and vibrations and prevent the screen from turning on for incoming calls, messages, and alarms.
-  • Some third-party apps may continue to ring when Do not disturb mode is enabled. Configure the in-app settings to mute notifications from these apps.



Time rule: Prevent interruptions at set times, such as weekends or evenings. Touch **Time** to configure the time period and repeat interval, then toggle on the **Time** switch.


Event rule: Prevent interruptions during meetings or events. Touch **Event** to enable **Do not disturb** mode during calendar events.


Configure Your Sound Settings

When you are watching movies or playing games, your device will automatically switch to stereo sound to enhance your audio experience. You can also set ringtones and audio reminders for a variety of different scenarios.

Adjust system volume: Press a volume button or move the slider to quickly adjust the media volume. Touch  to display the sound settings screen. You can then adjust the volume of the ringtone, media, and alarm.

 You can also adjust volume in your system settings. Open  **Settings**, touch **Sounds** and drag the volume slider to adjust your volume.

Switch between sound, vibration, and silent mode: Swipe down from the status bar and open the shortcuts panel. Touch  to switch quickly between **Sound**, **Silent** and **Vibration** mode.


Enable keypad and notification tones: Open  **Settings**, and go to **Sounds > More sound settings** to enable or disable keypad and notification tones and vibration on touch.

Set your Phone to Silent mode: From the **Sounds** screen, enable **Silent mode**. After you enable **Silent mode**, enable **Vibrate in silent mode**. Now when you receive an incoming call, your screen will light up and your device will vibrate.

Customize your ringtone and notification tone: From the **Sounds** screen, select a custom ringtone or use the **Notification**.

Use Shortcuts to Access Frequently Used Features

You can touch and hold an app icon to display a menu of frequently used features for quick access. You can also touch and hold a feature and drag it to your home screen to create a shortcut.

 If you touch and hold an app icon and no shortcut is created, the app does not support home screen shortcuts.


Quickly access frequently used app features: Touch and hold an app icon on your home screen, and then touch a frequently used feature to access it. Each app supports up to four frequently used features. These are preset by the app and cannot be changed. For example, to take a selfie, touch and hold the camera icon, and then touch **Selfie** in the pop-up menu to create a selfie shortcut.

Add shortcuts to your home screen: Touch and hold an app icon on your home screen to bring up the menu. Touch and hold the desired feature, and then drag it to your home screen to create a shortcut. For example, you can add a shortcut for the camera's selfie feature for quick access to the selfie feature.

Storage

Enable Memory Cleanup


Your Phone may slow down over time as your storage space gets smaller. You can use memory cleanup to free up storage space, improve system performance, and keep your Phone running smoothly.

Open  **Phone Manager**. Touch **Cleanup** to clear memory and cache and optimize performance. If your storage space is still low, you can perform a deep clean to free up additional storage space.

Smart Assistance

Access Phone Functions from Anywhere with Navigation Dock

In order to close an app or return to the home screen, you must use the navigation bar at the bottom of your Phone. You can enable the Navigation dock feature on your Phone to avoid using navigation buttons and to comfortably operate your device with one hand.


Open  **Settings**. Go to **System > System navigation > Navigation dock** and enable **Navigation dock**. The Navigation dock will appear on the screen. You can then drag it to your preferred location. The Navigation dock can perform the following actions:

- **Back:** Touch the Navigation dock once to go back one step, or touch it twice to go back two steps.
- **Home:** Touch and hold the Navigation dock and then release it to go to the home screen.
- **View background apps:** Touch and hold the Navigation dock and then swipe left or right to view any apps that are running in the background.

System


Change the Input Method


You can change the input method on your Phone as desired.

Switch the input method: Open  **Settings**, go to **System > Language & input > Default keyboard**, and select an input method.

Enable Color Correction

The color correction setting enables your device to compensate for the effects of color blindness.


 When color correction is enabled, users with normal color vision may have difficulty viewing some colors.

Open  **Settings**, go to **Smart assistance > Accessibility > Color correction**, and enable **Color correction**. Touch **Correction mode** to select the required color correction mode.

General Settings

Change Your System Language

Want to change your Phone's system language? This can be done with ease.

Open  **Settings**, go to **System > Language & input > Language**, and select the language you want to use. If the language you want is not listed, touch **Add language**, search and add the language, and then select it.

In **Add language > Added**, the displayed language (region) does not indicate an association between the language and region or have any political implications. The system interface is displayed according to the cultural habit of the selected region. For example, if you add English (Vietnam), the calendar will take Monday as the first day of each week according to Vietnamese habits rather than Sunday as the first day of each week according to British or American cultures.

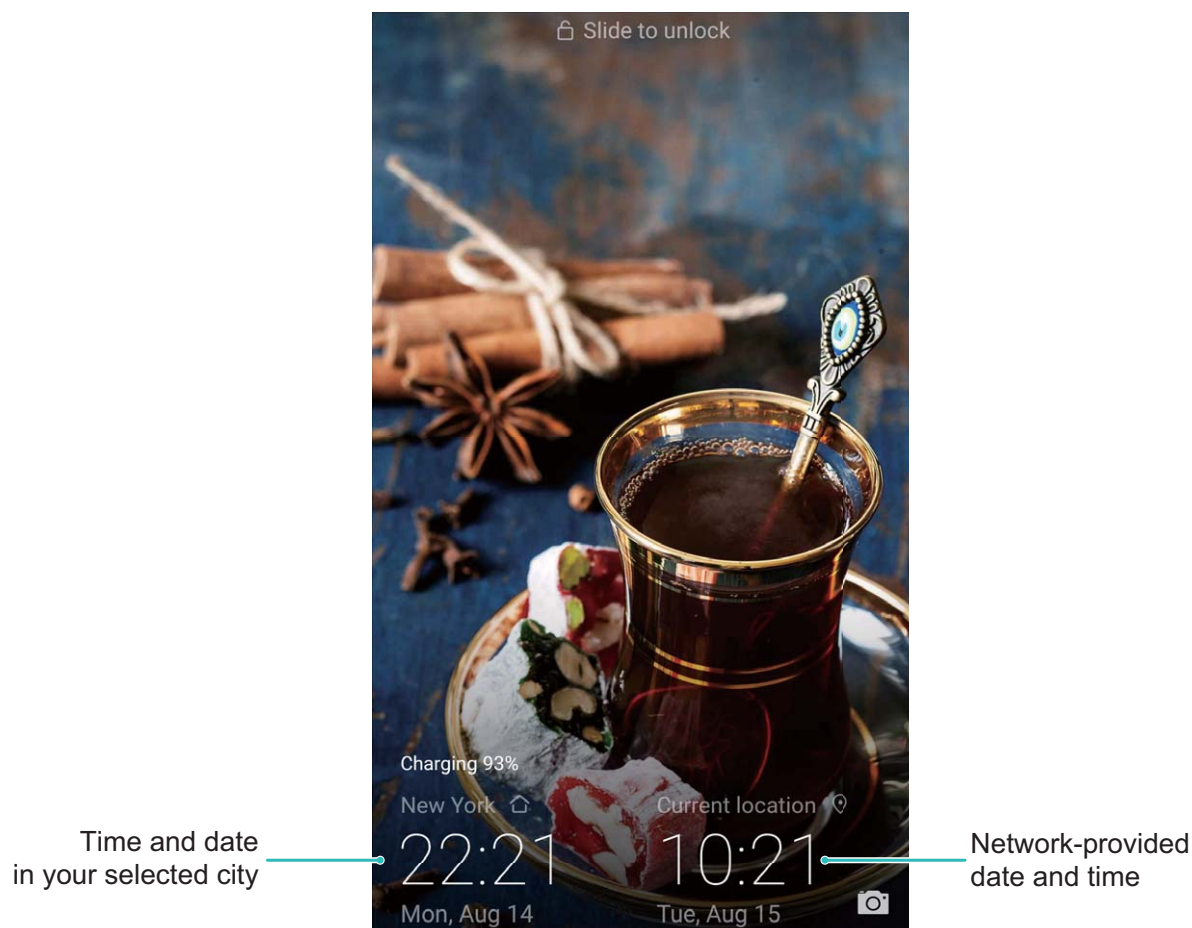
Set Your System Time and Date

If you travel abroad or change your SIM card, your Phone will automatically display the time and date provided by the local mobile network. You can also adjust the time and date manually, modify the time format, or set dual clocks on your lock screen.

Open  **Settings** and go to **System > Date & time**. From here you can:

- **Modify the time and date:** Enable **Set automatically** to sync your Phone's time and date with your mobile network. Disable **Set automatically** to set your time and date manually.
- **Modify your time zone:** Enable **Set automatically**, to sync your Phone's time zone with your mobile network. Disable **Set automatically** to set your time zone manually.

- **Change the time format:** Enable **24-hour time** to set your time format to 24 hours. Disable **24-hour time** to set your time format to 12 hours.
- **Set dual clocks on your lock screen:** If you are overseas, your Phone will automatically display the local time and date provided by the local mobile network. You can enable **Dual clocks** and set **Home city** to display dual clocks on your lock screen: one displaying the local time and the other the time in your home country.









Print Documents and Photos from Your Phone

Connect your Phone to a printer over Wi-Fi to print out documents and photos with ease.

- **Mopria** allows you to print directly from your Phone to a Mopria-certified printer. The printer connects to your Phone over Wi-Fi.
- If your printer is not Mopria-certified, contact the printer manufacturer to obtain a plug-in for your model.

1 Connect your Phone and printer to the same Wi-Fi network.

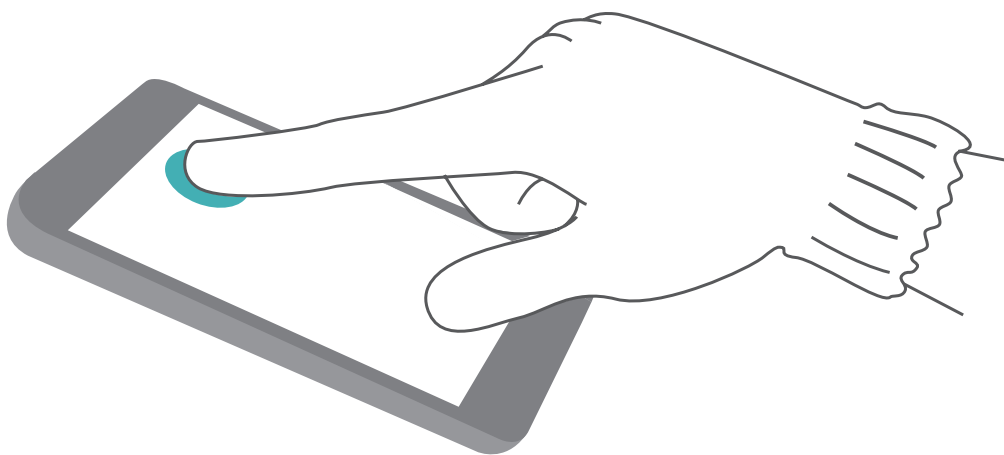
- **Connect to your printer's hotspot:** If your printer has a wireless hotspot, follow the instructions in the printer manual to enable the hotspot and set a password. On your Phone, open  **Settings** and go to **Wireless & networks > Wi-Fi**. Enable **Wi-Fi**, select the printer hotspot, and then follow the onscreen instructions to establish the connection.

- **Connect with Wi-Fi Direct:** If your printer supports Wi-Fi Direct, follow the instructions in the printer manual to enable this feature. On your Phone, open  **Settings**, and go to **Wireless & networks > Wi-Fi**. Enable **Wi-Fi**, touch  > **Wi-Fi Direct**, and then select your printer from the list of detected devices.
 - **Connect to your router:** On your printer, enable Wi-Fi and connect to your home router. On your Phone, open  **Settings** and go to **Wireless & networks > Wi-Fi**. Enable **Wi-Fi**, select your router, and then follow the onscreen instructions to complete the settings.
- 2** Open  **Settings**, go to **Device connectivity > Printing > Default Print Service**, and check that **Default Print Service** is enabled. Select a printer from the search results and follow the onscreen instructions to manually add the printer.
- 3** You can now print directly from your Phone:
- **Print an image:** Go to **Gallery**. Open the image that you want to print, go to **More > Print or export to PDF**, and then follow the onscreen instructions to send the image to the printer.
 - **Print a webpage:** In your browser, open the webpage that you want to print, and then select the print option from the menu.
 - **Print a document:** Open the document that you want to print in a productivity app and select the print option from the menu.
 - **Print a note:** Open  **Notepad**. Open the note that you want to print, touch **Print**, and then follow the onscreen instructions to send the note to the printer.

Enable Gloves Mode


Gloves mode makes it easier to use your phone when you are wearing gloves on cold winter days.


Go to  **Settings > Smart assistance**, and enable **Gloves mode**.



View Memory and Storage Status

Unsure of how much memory and storage you have left after using your Phone for a long time? You can view your Phone's memory and storage information to help you monitor your memory and storage use and decide whether to perform a cleanup.

 Not all devices support memory cards.


Open  **Settings**, and touch **Storage** to view the memory usage, and free up more space in a timely manner based on the available storage space.

Clean up space: Select **CLEAN UP**, you can view the usage details of apps. Based on the scan result, you can also manually clean up the system as recommended or specify items to clean up.

System Update


Performing an Online Update

Your Phone will prompt you to download and install a system update when a new version is available. The online update feature allows you to update your Phone quickly and securely.

-  Before performing an online update, ensure that your Phone is connected to the Internet. Online updates require an Internet connection. Update your Phone over a Wi-Fi network to avoid incurring unnecessary data charges.
- Ensure that your Phone is at least 30% charged during the update process.
- Avoid using unauthorized third-party software to install firmware and system updates. These may cause your Phone to cease functioning or disclose your personal information. For best results, update your system using the online update feature, or take your Phone to your nearest Huawei service center.
- Always back up your data before updating your Phone to avoid potential data loss.
- Some third-party apps may be incompatible with the new system version (such as online banking apps or games). Please wait for a new version of the third-party app to be released.

1 Open  **Settings**.

2 Go to **System > Software update**.

- When the system detects a new update, go to **New version > DOWNLOAD AND INSTALL**.
- If the system indicates that it is up-to-date, go to  **> Download latest full package**.
When the system detects a new update, go to **New version > DOWNLOAD AND INSTALL**.

System updates may take a while to complete. Avoid using your Phone during this time. Your Phone will automatically restart when the update is complete.

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Personal Information and Data Security

The use of some functions or third-party applications on your device could result in your personal information and data being lost or becoming accessible to others. Use the following measures to help you protect your personal information:

- Put your device in a safe place to prevent unauthorized use.
- Set your device screen to lock and set a password or unlock pattern.
- Periodically back up personal information stored on your SIM card, memory card, or your device memory. If you change to a different device, be sure to move or delete any personal information on your old device.
- Do not open messages or emails from strangers to prevent your device from becoming infected with a virus.
- When using your device to browse the Internet, do not visit websites that might pose a security risk to avoid your personal information from being stolen.
- If you use services such as the portable Wi-Fi hotspot or Bluetooth, set passwords for these services to prevent unauthorized access. Turn these services off when they are not in use.
- Install device security software and regularly scan for viruses.
- Be sure to obtain third-party applications from a legitimate source. Downloaded third-party applications should be scanned for viruses.
- Install security software or patches released by Huawei or authorized third-party application providers.
- Using unauthorized third-party software to update your device may damage your device or put your personal information at risk. It is recommended that you update through your device's online update feature or download official update packages for your device model from Huawei.
- Some applications require and transmit location information. As a result, a third-party may be able to share your location information.
- Some third-party application providers may collect detection and diagnostic information on your device to improve their products and services.

Obtaining help

Read the Quick Start Guide included with your phone.

Touch **Settings** > **System** > **About phone** > **Legal** to read the legal information.

Visit <http://consumer.huawei.com/en/> for more information.

This guide is for your reference only. The actual product, including but not limited to the colour, size, and screen layout, may vary. All statements, information, and recommendations in this guide do not constitute a warranty of any kind, express or implied.

Note: Remember the Google account your phone last logged in to. During an untrusted factory settings restoration, Google's anti-theft mechanism requires you to enter the Google account your phone last logged in to on the startup navigation screen for identity authentication. Your phone can properly power on only after the identity authentication passes.

Please visit <http://consumer.huawei.com/en/support/hotline> for up to date support hotline and email address information for your country or region.

Model: CLT-L09
CLT-L29

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