

HUAWEI P20 lite

User Guide



HUAWEI

Contents

Exciting Features

Featured Usage Tips	1
Camera Tips	2
More Features	5

New Device

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

Gestures and Operations

HiVision	12
Screenshots and Screen Recording	13

Home Screen

Navigation Bar	16
Notification Panel and Status Bar	17
Set a Lock Screen Password to Protect Your Privacy	19
Go Back to Basics with Simple Mode	20
Home Screen Management	20

Contacts

Managing Business Cards	24
Managing Contacts	25
Link Contact Information with Social Media Accounts	26

Dialing

Basic Calling Functions	27
Enable VoLTE to Enjoy HD Calls	28

Camera

Basic Camera Functions	29
Use Portrait Mode to Take Stunning Portraits	30
Use Wide Aperture Mode to Highlight Your Shooting Subjects	31
Use Panorama Mode to Take Panoramic Photos	31
Pro Mode	32
Light Painting Mode	34
More Capture Modes	39

Gallery

Customize Highlights Albums	41
Photo Management	42

Optimizer

Enable Smart Power-Saving Management to Optimize Power Consumption	43
Email	
Manage Email Accounts	44
Create Smart Groups	44
Import Important Events to Calendar	45
Calendar	
Navigate the Calendar	46
Notepad	
Manage Your Notes to Keep Your Records in Order	47
Utilities	
Use Recorder to Make Audio Notes	49
Device Connection	
Connect Your Phone to Bluetooth Devices	50
NFC	51
Transfer Data between Your Phone and Computer	54
Huawei Share	55
Security and Privacy	
Face Unlock	58
Fingerprint	59
Enable or Disable Location Services	60
PrivateSpace	60
Enable App Lock	64
Backup and Restoration	
Data Backup: Prevent the Loss of Your Data	65
Data Backup to a USB Storage Device	65
Reset Your Phone	66
Wi-Fi and Network	
Wi-Fi	67
Share Your Mobile Network with Other Devices	70
Apps and Notifications	
App Twin: Log In to Two Social Media Accounts at Once	71
Sound and Display	
Configure Your Sound Settings	72
Enable Eye Comfort Mode to Prevent Eye Strain	72
Use Shortcuts to Access Frequently Used Features	73

Storage

Enable Memory Cleanup	74
-----------------------	----

Smart Assistance

Access Phone Functions from Anywhere with Navigation Dock	75
---	----

System

Change the Input Method	76
Accessibility	76
General Settings	76

System Update

Update the Phone System Online	80
--------------------------------	----

Legal Notice

Legal Notice	81
Personal Information and Data Security	83
Obtaining help	83
Get More Information	83

Exciting Features

Featured Usage Tips

Enroll Your Facial Information and Enable Face Unlock

Face unlock allows you to unlock your Phone quickly and securely, without the need of a password.

- ⚠️ • Face unlock can only be used when the owner account is logged in. It is not supported by PrivateSpace.
 - Face unlock is not available if the lock screen password has not been entered for three or more days in a row, or if your Phone has been remotely locked or restarted.
 - When using Face unlock, keep your eyes open, and face your Phone straight on from a distance of 20–50 cm (about 8–20 in.). In order to scan your face accurately, avoid using this feature when you are in a dark environment or facing direct light.
 - Currently, only one face can be enrolled. Delete the current facial data to enroll again.
- 1 Open  **Settings**. Go to **Security & privacy > Face recognition** and enter your lock screen password.
 - ℹ️ If you haven't set up a lock screen password, set one first. Besides the 6-digit PIN, you can set up other types of passwords: **Pattern**, **4-digit PIN**, **Custom PIN**, or **Password**.
 - 2 Selecting **Enable Pick up to wake device to enhance the Face unlock experience** will allow the screen to turn on and unlock when you pick up your Phone and hold it to your face. If you do not need this feature, leave it deselected. Touch **Get started**, and enroll your face.
 - 3 Face unlock modes:
 - **Select an unlock method**: On the **Face recognition** screen, touch **Unlock device**. If you select **Direct unlock**, your Phone identifies your facial features and unlocks your screen when the screen is on. If you select **Slide to unlock**, after your Phone identifies your facial features, you can slide the lock screen to unlock. Selecting **Off** will disable Face unlock.
 - **Smart display of lock screen notifications**: Enable **Show notifications**. On the lock screen, your Phone hides notification details and displays them only after recognizing the owner's face.
 - **Access App lock**: Enable **Access app lock** to access App lock and locked apps using Face unlock.

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

Use Portrait Mode to Take Stunning Portraits

Want to make your selfies or group shots more impressive? Portrait mode provides you with customized options to make every photo stunning and forever-lasting.

Enable Portrait mode to capture more stunning photos: Go to  **Camera > Portrait**, select one of the following effects, then touch  to take a portrait photo.

- **Blurred effect:** Touch the  icon in the viewfinder and enable blurred effect.
 -  A light source (such as neon light and street light) in a relatively well-lit background will contribute to an ideal blurred effect.
- **Beauty effect:** Touch  in the viewfinder and drag the slider left or right to adjust beautification settings. The higher the value, the more pronounced the effect.
 -  To disable the beauty effect, touch the  icon in the viewfinder and set each parameter to its minimum value.

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.



Custom Shooting Modes

Want to discover new ways of using your camera besides the preset functions? You can download or delete shooting modes based on your needs.

Download more shooting modes: Open  **Camera** > **More** > **Download**. Select the shooting modes to download, and touch **ADD**.

Update shooting modes: To update shooting modes, go to the **More** screen. The shooting modes with available updates will have red dots next to them. You can follow the onscreen prompts to update them.

Delete shooting modes: Go to **More** > , and touch  to delete unneeded shooting modes.
 To ensure that Camera works normally, preset shooting modes cannot be deleted.

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.

Go to  **Camera** > **More** > **Pro** to enter Pro mode.

Select a metering mode based on the shooting subject: Touch , and select a metering mode.

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:** Touch , and drag the ISO slider to adjust its value.

 To avoid excessive noise, the recommended ISO is below 400. The recommended ISO for the daytime is between 100 and 200 and around 400 for night scenes.

- **Adjust the shutter speed:** Touch  (shutter speed), and drag the shutter speed slider to your desired speed.

 The recommended shutter speed for static scenes (such as mountains) is between 1/80 and 1/125, and faster for moving subjects (such as waves). For best results, use a tripod when shooting a moving subject.

- **Adjust exposure compensation:** Touch , and drag the EV slider to your desired value.

Adjust AWB: Touch , and drag the AWB slider to your desired value.

-  • 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, lower the K value.

Adjust AF based on the shooting subject: Touch , and drag the AF slider to your desired value.

Focusing Mode	Application Scenario
AF-S mode	Static scenes (such as mountains)
AF-C mode	Moving scenes (such as flowing water and 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.

-  • Some options in Pro mode may change after you modify settings.
- The aforementioned recommended settings are for reference only. You may adjust them based on the actual usage conditions 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 > More > 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

Use Password Vault

Password vault saves and fills in your passwords, allowing you to log in to apps on your Phone more conveniently and securely.

Enable or disable Password vault: Password vault is enabled by default. After you update your Phone, enable Password vault by performing the following operations:

- 1 Enter the lock screen password to access the Password vault settings. Open  **Settings**, and go to **Security & privacy > Password vault**.
- 2 Enter your lock screen password to access the **Password vault** screen.
- 3 Enable **Password vault**. When you log in to an app for the first time or after logging out, select **SAVE**, and your username and password will be saved. Next time you log in, use the method you picked, for example Face unlock, to automatically fill in your username and password to log in to the app.
- 4 Enable or disable **Autofill settings** for individual apps. If the autofill feature is enabled for an app, you can use your face, fingerprint, or lock screen password to fill in the password when you log in. If this feature is disabled, your username and password must be entered manually.

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 these apps. App lock adds an extra layer of protection for your private information and prevents unauthorized access to important apps on your Phone.

Enable App lock: Open  **Settings**. Go to **Security & privacy > App lock**. When you first access App lock, select **Lock screen password** or **Custom PIN** as your **App lock** verification password. Enter your password as prompted and on the **App lock** screen, toggle on the switch for the apps you want to lock.

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

Set your App lock password: Touch  on the **App lock** screen, then touch **Password type**. Select **Lock screen password** or **Custom PIN**.

-  If you enter the wrong password five times in a row while logging in to App lock, your Phone will remain locked for one minute. Try again after one minute. If you enter the wrong password another three times in a row, you will need to wait 10 minutes to try unlocking again.

Enable PrivateSpace

Do you worry that potentially embarrassing information might be seen by your friends and co-workers when you are showing them photos and other things on your Phone? PrivateSpace lets you store private information in a hidden space within your device that can only be accessed with your fingerprint or password.

-  You can add up to three users to **Users** and **PrivateSpace** on your Phone. If you have already added three users under **Settings > Users & accounts > Users > Add user**, you cannot add more users to **PrivateSpace**.

Enable PrivateSpace: If you are using PrivateSpace for the first time, open  **Settings**, go to **Security & privacy > PrivateSpace > Enable**, and follow the onscreen instructions to create your PrivateSpace.

-  You can only create one PrivateSpace.

Quickly switch between MainSpace and PrivateSpace: From the lock screen, you can quickly switch between spaces using your fingerprint or password. After you restart your Phone, you are required to first enter the MainSpace using your password. You can then switch between spaces from your lock screen.

Enter PrivateSpace: You can enter your PrivateSpace directly from the lock screen using your fingerprint or password. Alternatively, open  **Settings** in MainSpace, and go to **Security & privacy > PrivateSpace > Log in** to enter your PrivateSpace.

Exit PrivateSpace: After entering your PrivateSpace, open  **Settings**, and go to **Security & privacy > PrivateSpace > Exit**. When you exit your PrivateSpace, all system memory used by the PrivateSpace will be freed. You can still switch back to your PrivateSpace when you need it.

Delete PrivateSpace: Deleting your PrivateSpace will permanently delete all apps and data stored within your PrivateSpace and this data will be unable to be restored. You can delete your PrivateSpace in the following ways:

- From the MainSpace, open  **Settings**, then go to **Security & privacy > PrivateSpace** and touch  > **Delete PrivateSpace**.
- In PrivateSpace, open  **Settings**, and go to **Security & privacy > PrivateSpace > Delete**.

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.

Enable TalkBack to Have Onscreen Content Read Aloud

Your Phone reads aloud content on the screen that you touch, select, or activate, helping you interact with your Phone when you can't read content on your screen clearly.

- 1 Open  **Settings** and go to **Smart assistance > Accessibility > TalkBack > More settings** to enter the TalkBack settings screen.
- 2 Enable **TalkBack** and touch **OK**. Your device will launch a tutorial when you enable TalkBack for the first time. If you need to listen to the tutorial again, touch **More settings** to enter the TalkBack settings screen, and launch the tutorial.
- 3 Touch **More settings** and enable **Explore by touch**. Your device will read aloud content that you touch.

You may have enabled TalkBack by accident. To disable TalkBack, press and hold the Volume up and down buttons for at least three seconds, or press and hold the Power button until your device vibrates, then touch the screen with two fingers for at least three seconds.

Enable Memory Cleanup

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

Open  **Optimizer**, then touch **Cleanup** to clean up memory and clear the cache to optimize performance. If your storage space is still low, perform a deep clean to free up additional storage space.

New Device

New Device Configuration

Enroll Your Facial Information and Enable Face Unlock

Face unlock allows you to unlock your Phone quickly and securely, without the need of a password.

- ⚠️ • Face unlock can only be used when the owner account is logged in. It is not supported by PrivateSpace.
- Face unlock is not available if the lock screen password has not been entered for three or more days in a row, or if your Phone has been remotely locked or restarted.
- When using Face unlock, keep your eyes open, and face your Phone straight on from a distance of 20–50 cm (about 8–20 in.). In order to scan your face accurately, avoid using this feature when you are in a dark environment or facing direct light.
- Currently, only one face can be enrolled. Delete the current facial data to enroll again.

1 Open  **Settings**. Go to **Security & privacy > Face recognition** and enter your lock screen password.

-  If you haven't set up a lock screen password, set one first. Besides the 6-digit PIN, you can set up other types of passwords: **Pattern**, **4-digit PIN**, **Custom PIN**, or **Password**.

2 Selecting **Enable Pick up to wake device to enhance the Face unlock experience** will allow the screen to turn on and unlock when you pick up your Phone and hold it to your face. If you do not need this feature, leave it deselected. Touch **Get started**, and enroll your face.

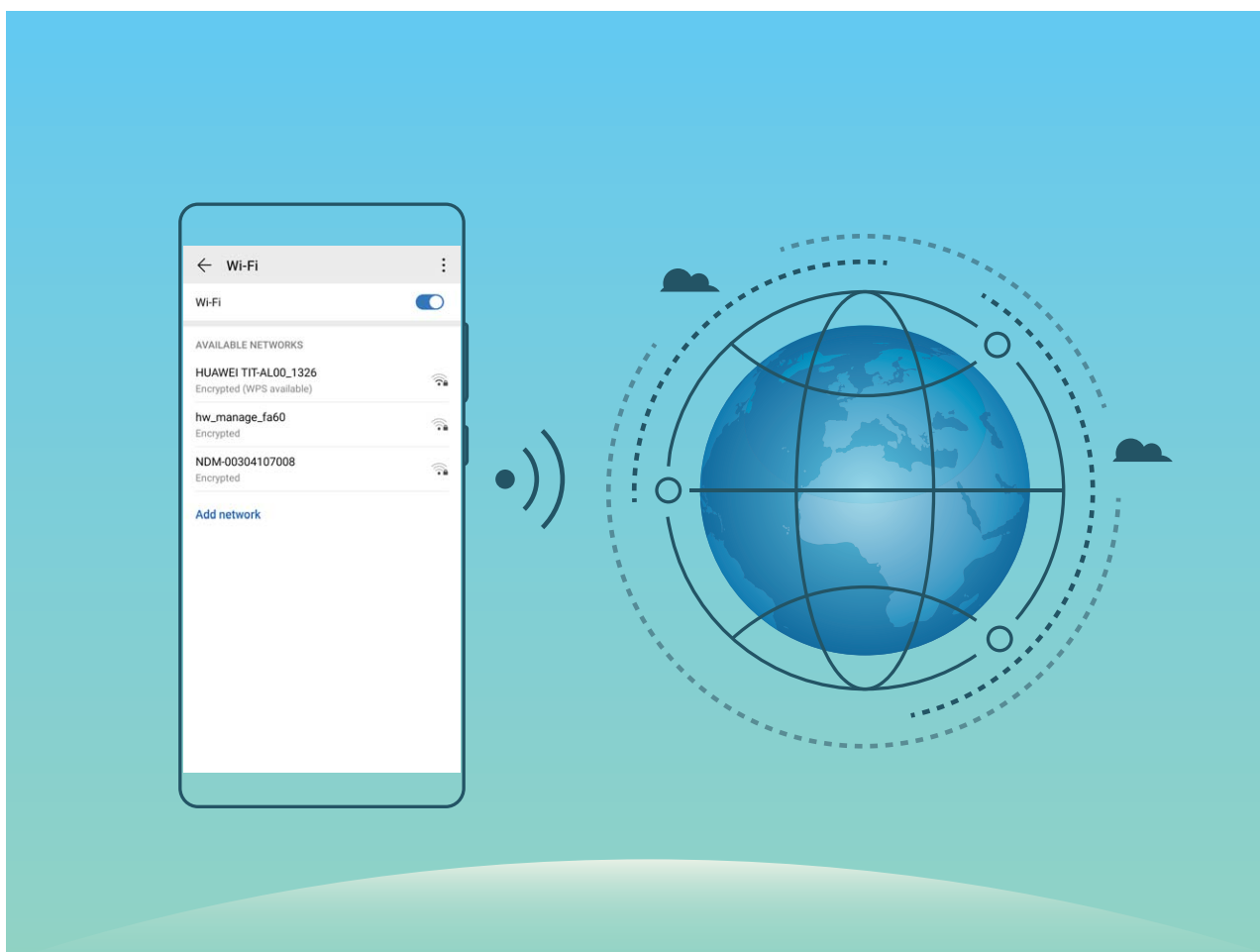
3 Face unlock modes:

- **Select an unlock method:** On the **Face recognition** screen, touch **Unlock device**. If you select **Direct unlock**, your Phone identifies your facial features and unlocks your screen when the screen is on. If you select **Slide to unlock**, after your Phone identifies your facial features, you can slide the lock screen to unlock. Selecting **Off** will disable Face unlock.
- **Smart display of lock screen notifications:** Enable **Show notifications**. On the lock screen, your Phone hides notification details and displays them only after recognizing the owner's face.
- **Access App lock:** Enable **Access app lock** to access App lock and locked apps using Face unlock.

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

HiVision

Read QR Codes and Barcodes

Want to quickly read QR code and barcode information? You can use HiVision to quickly read QR codes or barcodes, and get purchase information, add contacts, and more based on the results.

- This feature requires an Internet connection. Connect to a Wi-Fi network to avoid unnecessary data charges.

Scan QR codes or barcodes: Once your Phone is unlocked, swipe down on the home screen, and touch  to open HiVision. On the HiVision screen, touch  and place the QR code or barcode within the scan frame to acquire information. From the results screen, you can:

- Touch  to copy the information to the clipboard.
- If the QR code contains contact information, touch  to add the information to your **Contacts**.

Scan to Translate Effortlessly

HiVision can help you quickly translate foreign text.

- This feature requires an Internet connection. Connect to a Wi-Fi network to avoid unnecessary data charges.
- This translation feature currently supports Chinese, English, Japanese, Korean, French, Russian, Spanish, Italian, German, and Portuguese.

- 1 Once your Phone is unlocked, swipe down from the center of the home screen and touch  to open **HiVision**.
- 2 On the **HiVision** screen, touch . Select the source and target languages, then focus on the text you want to translate. Your device will complete the translation automatically.

Scan Food to Acquire Calorie Information

Ever just start wondering about how to select healthy food and keep slim? Scan the food to get the weight, the calorie, and the nutrient information using **HiVision**.

- This feature requires an Internet connection. Connect to a Wi-Fi network to avoid unnecessary data charges.

Perform the following to try it out:

- 1 Once your Phone is unlocked, swipe down from the middle part of the home screen, and touch  to open **HiVision**.
- 2 On the **HiVision** screen, touch , and make sure the food is centered in the frame, and the weight, the calorie, and the nutrient information will be shown.

Scan Products

When you encounter an unknown item, you want to buy but can't find it. After scanning goods, you can get the purchase recommendations of similar items, which is convenient for you to buy favorite things.

 This feature requires an Internet connection. Connect to a Wi-Fi network to avoid unnecessary data charges.

- 1 Once your Phone is unlocked, swipe down from the center of the home screen, and touch  to open **HiVision**.
- 2 On the HiVision screen, touch , then you can shop by scanning a product or by taking a screenshot.
 - Take a screenshot to purchase: Frame the item in the viewfinder, then touch  to take a screenshot, The system will automatically recognize and recommend similar items.
 - Scan the product to purchase: Frame the item in the viewfinder, the system will automatically scan and recommend similar items.

Scan to Instantly Recognize Objects

Find more information about key landmarks during a journey or favorite paintings in an exhibition. Scan any picture using HiVision to find out more.

HiVision provides you with relevant information to enhance your experiences. Instructions:

- 1 Once your Phone is unlocked, swipe down from the middle part of the home screen to display the global search box, then touch  to enable **HiVision**.
- 2 On the **HiVision** screen, touch , and frame the arts in the viewfinder. HiVision will automatically identify the arts and display detailed information cards for that arts.

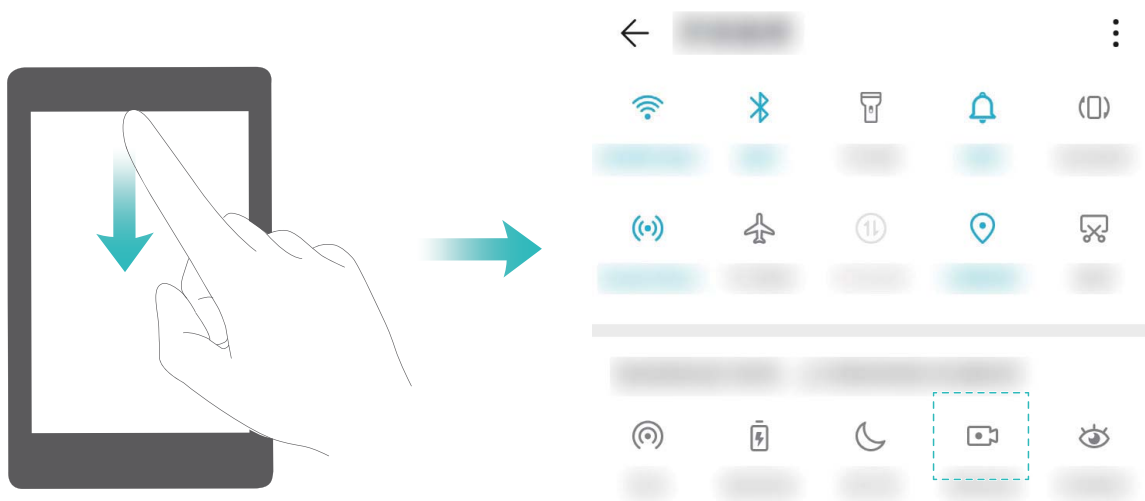
Screenshots and Screen Recording

Record Exciting Moments on Your Screen

Screen recording comes in handy when you are making tutorial videos or if you want to record your gameplay to share with your friends using your Phone.

-  Screen recording will end if you make or answer a call.
- If you are making audio recordings on your Phone before screen recording,  is disabled by default.
- Touching  during recording will enable or disable the microphone.
 - Enable microphone: You can record the ambient sounds and the system sounds (system sounds can be played via the speaker).
 - Enable microphone: You can record the ambient sounds and the system sounds (system sounds can be played via the speaker).
 - Disable microphone and mute the Phone: The screen will be recorded in silence.

Use shortcut to start recording: Swipe down the notification panel, and then touch  to start recording the screen. You can turn on or off  based on your needs. To end the recording, touch the red timer 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 turn on or off **Enable microphone** based on your needs. To end the recording, simultaneously press and hold the **Power** button and the **Volume up** button 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.

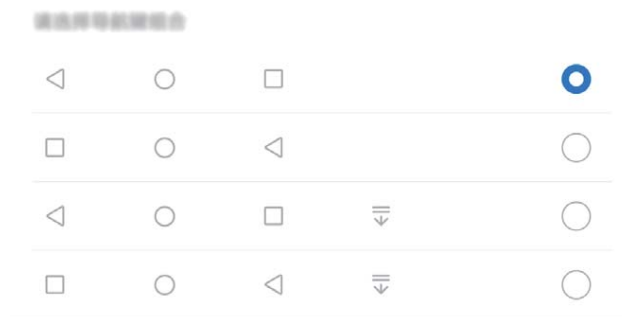
Home Screen

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, open  **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 Google Assistant icon and swipe upwards on the icon to enable Google Assistant.
-  **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.

Navigate with Gestures

Avoid navigation keys from blocking your screen content. Navigate easily with gestures. Gesture navigation allows you to quickly go back to the previous screen, return to the home screen, and view recent tasks.

Open  **Settings**, go to **System > System navigation**, and select **Gestures**. You can then:

- **Go back to the previous screen:** Swipe inward from the left or right edge of the screen.
- **Return to the home screen:** Swipe upwards from the bottom of the screen.
- **View recent tasks:** Swipe upwards from the bottom of the screen and hold.
- **Enable Google Assistant:** Touch **Settings** to enable **Google Assistant**. Swipe upwards from the bottom left or right corner of the screen to enable Google Assistant.

Notification Panel and Status Bar

Notification and Status Icons and Descriptions

The icons on the status bar give you a quick overview of the general status of your Phone, including its network connection, battery level, and any new messages received when your Phone is in Silent mode.

Status icons: By glancing at the status icons, you can quickly learn the status of your device, such as its network connection, signal strength, battery level, time, and more.

 The network status icons may vary by regions and service providers.

	Signal strength		No signal
4G⁺	4G+ network connected	3G	3G network connected
4G	4G network connected	H	HSPA network connected
2G	2G network connected	LTE	LTE network connected
LTE⁺	LTE+ network connected		NFC enabled
H⁺	HSPA+ network connected		Airplane mode enabled
	VoLTE available		Wi-Fi network connected
R	Roaming		Receiving location data from GPS

	Bluetooth enabled		Silent mode enabled
	Wi-Fi network available		Charging
	Vibration mode enabled		Battery level low
	Alarms enabled		No SIM card detected
	Battery fully charged		Headset plugged in
	Power saving mode enabled		Performance mode enabled
	Wired or wireless projection in use		Super charging
	Quick charging		Eye comfort mode enabled
	Do not disturb mode enabled		USB cable connected
	Data saving mode enabled		Bluetooth power
	Hotspot enabled		Optimizer reminder
	Unstable signal		Can't connect a call on current network
	Select-to-speak enabled		Screen time management enabled

Notification icons: When there is a new message, notification or reminder on your Phone, the relevant icon will be displayed in the status bar.

	Missed calls		New emails
	Downloading data		New voicemails
	Events reminder		Uploading data
	Synchronizing data		Memory full
	Sign-in or synchronization problem		Synchronization failed
	VPN connected		More notifications

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**.

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 **ADD** 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.

Go Back to Basics with Simple Mode

Does your home screen look cluttered with app icons and small text? Simple mode maximizes the system volume and displays larger icons and fonts on the home screen, adopting a more concise layout which is easy to navigate.

Open  **Settings**, go to **System > Simple mode**, and touch **Enable**.

In Simple mode, you can:

- **Edit home screen icons:** Touch and hold any icon to add or uninstall certain non-system apps.
- **Exit Simple mode:** Touch **Settings** and select **Exit Simple mode**.

 In **Simple mode**, go to **Settings > More settings > System > Reset > Reset all settings**. You will be directed to the default system home screen and all your settings in **Simple mode** will be reset.

Home Screen Management

Manage Home Screen Icons

Move and delete app icons from the home screen, or rearrange them in folders so that your home screen is organized the way you like it.

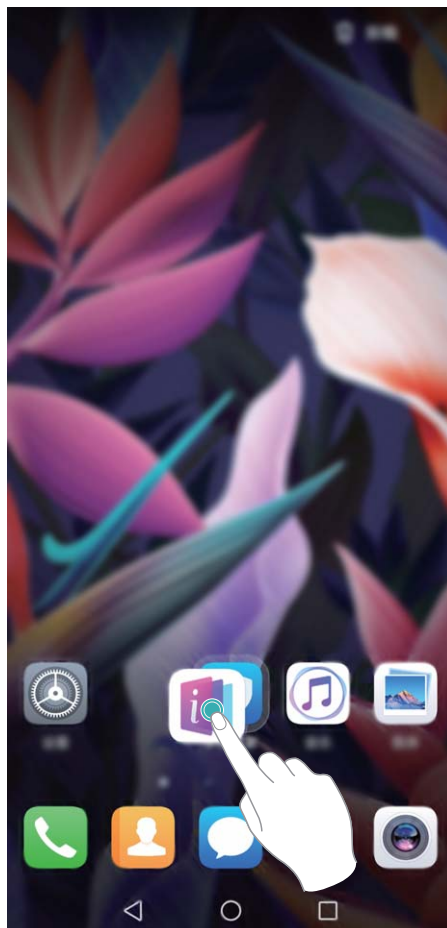
Move an app icon or folder: On the home screen, touch and hold an app or folder icon until your Phone vibrates, then drag it to any position on the home screen.

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

 To ensure that the system runs normally, some pre-installed system apps cannot be uninstalled.

Lock the home screen layout: Open  **Settings**, go to **Home screen & wallpaper > Home screen settings**, and enable **Lock layout**.

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

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

Add or remove app icons from a folder: Open the folder and touch $+$. Select the apps you wish to add to the folder, deselect those you wish to remove, and then touch **OK**.

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, then drag it to an empty space on 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 .



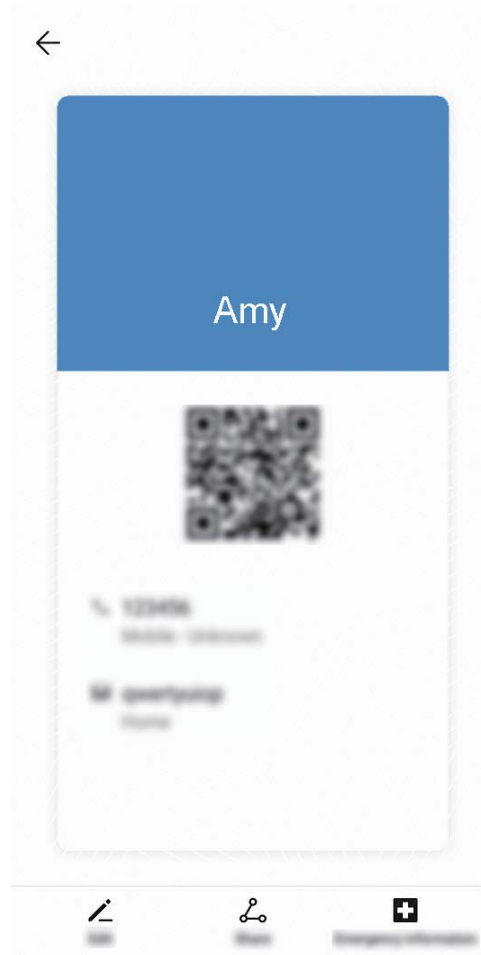
- **Scan multiple business cards:** Switch to **Multiple** mode and follow the onscreen instructions to capture multiple business cards.

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** > **View business card**.

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  > **Settings** > **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**, **Share contacts**, or **Export to SIM** 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 includes a host of features for managing contacts. Simplify your contacts list by viewing contacts on your Phone or SIM card only. Favorite contacts to find them easily.

Merge duplicate contacts: Use the **Merge duplicate contacts** function to merge duplicate contacts. From the contacts list screen, go to  > **Settings** > **Organize contacts** > **Merge duplicate contacts**. Select the contacts you want to merge and touch **Merge**.

Display contacts for different accounts: From the contacts list screen, go to  > **Settings** > **Display preferences**, and select the accounts for which you want to display contacts. You can also:

- **Enable Simple view:** Go to  > **Settings** > **Display preferences**, and enable **Simple view**.
- **View contact storage space:** Go to  > **Settings** > **Display preferences**. The **Accounts** area displays the total and available storage space on your SIM card.

Add contacts to Favorites: Favorite contacts with whom you frequently communicate. From the contacts list screen, touch and hold the entry you want to favorite, then touch **Favorite** to add it to the Favorites screen.

Delete contacts: From the contacts list screen, touch and hold the entry you want to delete, then touch **Delete**. To delete contacts in batches, go to  > **Settings** > **Organize contacts** > **Delete multiple contacts**, select the entries you want to delete, then touch .

Link Contact Information with Social Media Accounts

Use third-party social media apps (such as LinkedIn) to find out more information about your contacts.

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

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

Unlink a LinkedIn contact: Open  **Contacts**, go to  > **Settings** > **LinkedIn**, and select **Disassociate**.

Dialing

Basic Calling Functions

Make Emergency Calls

In an emergency situation, if your Phone is powered on and in service, emergency calls can be made even if the screen is locked or there is no reception.

 The emergency call feature is subject to local regulations and your Internet service provider. Network or environmental factors may affect emergency call performance. 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 a local emergency number, and touch . Strong mobile reception and an Internet connection with location services enabled will allow your location to be displayed on your Phone 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.

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.

Camera

Basic Camera Functions

Use Camera to Record Videos

Use Camera to record videos, making your memories more vivid.

Record a video: Go to  **Camera** > **Video**, then touch  to record a video.

-  On the **Video** screen, go to  > **Resolution** to select a preferred resolution, such as **1080p FHD** and **720p HD**.
- Stabilizer** is supported during video recording at any resolution.

Take a picture while recording: Touch  to take a picture while recording.

Zoom in or out: Touch and hold the viewfinder screen with two fingers, then spread your fingers to zoom in or pinch them to zoom out. When zooming, a zoom bar will appear. You can slide it to zoom your camera in or out.

Keep the flash on while filming: When recording a video in dim light, touch , and select  to keep the flash on.

Automatically track moving objects: Touch  on the video recording screen and enable **Object tracking**. Go back to the video recording screen and tap on the object you wish to track. Then touch the object again to confirm.

 **Object tracking** is only available in standard recording mode when you use the rear camera.

Adjust Camera Settings

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

Open  **Camera** and touch  to access the **Settings** screen. From here you can:

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

Save RAW format pictures: Saving in RAW format records more details and allows you to perform post-processing. In Pro mode, touch  to open **Settings**, and enable **Resolution** > **RAW format**. Now when you take a picture, the picture will be saved in RAW format as well as standard format, and stored in a special folder in **Gallery**.

 RAW format pictures take up more storage space than traditional pictures. Please check that you have enough free storage space available.

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

Adjust the camera resolution: Touch **Resolution** and select the desired resolution.

 This feature is not available in some modes.

Use an Assistive Grid to Compose Your Photos

Avoid skewed and off-center photos. Use your camera's assistive grid feature to help you line up the perfect shot.

Open  **Camera**, touch  to enter the **Settings** screen, and enable **Assistive grid**. Grid lines will now appear when you take photos. The four intersecting points on the grid are the focus areas of the picture. Place the subject of your photo on one of the intersecting points to achieve a good composition.



Use Portrait Mode to Take Stunning Portraits

Want to make your selfies or group shots more impressive? Portrait mode provides you with customized options to make every photo stunning and forever-lasting.

Enable Portrait mode to capture more stunning photos: Go to  **Camera** > **Portrait**, select one of the following effects, then touch  to take a portrait photo.

- **Blurred effect:** Touch the  icon in the viewfinder and enable blurred effect.

-  A light source (such as neon light and street light) in a relatively well-lit background will contribute to an ideal blurred effect.
- Beauty effect:** Touch  in the viewfinder and drag the slider left or right to adjust beautification settings. The higher the value, the more pronounced the effect.
-  To disable the beauty effect, touch the  icon in the viewfinder and set each parameter to its minimum value.

Use Wide Aperture Mode to Highlight Your Shooting Subjects

Wide aperture mode produces photographs with a shallow depth of field. This creates a blurred background that lends greater emphasis to the photo's subject.

Take a wide aperture photo: Go to  **Camera > Aperture**. When shooting, touch the screen to select a focal point, and then touch  to take the photo.

-  For optimal results, ensure that the subject is positioned no more than 2 m away from the camera.
- Touch  and swipe left or right on the slider to adjust the aperture level. The smaller the aperture value, the more blurred the background will appear.

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.

- Go to  **Camera > More > Panorama**.
- Touch  at the bottom of the screen to configure the shooting direction.
- 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.
- Touch  when you are finished. The camera will automatically stitch the photos together to create a panorama.



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.

Go to  **Camera** > **More** > **Pro** to enter Pro mode.

Select a metering mode based on the shooting subject: Touch , and select a metering mode.

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:** Touch , and drag the ISO slider to adjust its value.
 -  To avoid excessive noise, the recommended ISO is below 400. The recommended ISO for the daytime is between 100 and 200 and around 400 for night scenes.
- **Adjust the shutter speed:** Touch  (shutter speed), and drag the shutter speed slider to your desired speed.
 -  The recommended shutter speed for static scenes (such as mountains) is between 1/80 and 1/125, and faster for moving subjects (such as waves). For best results, use a tripod when shooting a moving subject.
- **Adjust exposure compensation:** Touch , and drag the EV slider to your desired value.

Adjust AWB: Touch , and drag the AWB slider to your desired value.

- 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, lower the K value.

Adjust AF based on the shooting subject: Touch **AF**, and drag the AF slider to your desired value.

Focusing Mode	Application Scenario
AF-S mode	Static scenes (such as mountains)
AF-C mode	Moving scenes (such as flowing water and 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.

- Some options in Pro mode may change after you modify settings.
- The aforementioned recommended settings are for reference only. You may adjust them based on the actual usage conditions 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 > More > 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.

Light Painting Mode

Light Painting: Shoot Light Trails

Light painting mode automatically sets a slow shutter speed to take long-exposure shots of light trails. This mode produces stunning photos that have an ethereal quality.

Light painting mode offers four creative shooting modes for different subjects and light conditions:

- **Traffic trails:** Captures light trails created by cars at night.
- **Light graffiti:** Captures trails created by a moving light source in low-light conditions.
- **Silky water:** Captures silky-smooth photos of waterfalls and flowing water.
- **Star trails:** Captures stunning photos of star trails in the night sky.



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.



Capture Rivers and Waterfalls with Silky Water

The Silky water feature lets you capture silky smooth photos of waterfalls and rivers.

- This feature works best with 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.

Go to  **Camera > More > Light painting > Silky water**. Hold your Phone steady, then touch  to start shooting. A preview of the image will be displayed in the viewfinder. Touch  when you are finished.



Use Star Track to Capture the Beauty of Stars

Star track allows you to capture the movement of stars in the night sky.

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

Go to  **Camera > More > Light painting > Star trails**. Hold your Phone steady, then touch  to start shooting. A preview of the image will be displayed in the viewfinder. Touch  when you are finished.



More Capture Modes

Custom Shooting Modes

Want to discover new ways of using your camera besides the preset functions? You can download or delete shooting modes based on your needs.

Download more shooting modes: Open  **Camera** > **More** > **Download**. Select the shooting modes to download, and touch **ADD**.

Update shooting modes: To update shooting modes, go to the **More** screen. The shooting modes with available updates will have red dots next to them. You can follow the onscreen prompts to update them.

Delete shooting modes: Go to **More** > , and touch  to delete unneeded shooting modes.

 To ensure that Camera works normally, preset shooting modes cannot be deleted.

Take Moving Pictures

Make your photos more dynamic and fun by taking moving pictures to prolong life's wonderful moments.

With moving pictures, you can record a scene approximately one second before and after pressing the shutter button. When browsing photos in Gallery, view the static picture taken or play a dynamic moving picture effect and sound.

Take moving pictures: Open  **Camera**, go to **More > Moving picture**, then touch  to take a moving picture.

View moving pictures: Moving pictures will be saved to **Gallery** in JPG format. Go to  **Gallery > Albums > Camera**, touch pictures with the  icon, and touch  on the top of the picture to view a 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 picture you want to share, then touch  to select a sharing method.

-  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 picture effect. When you share moving pictures to third-party apps or incompatible devices, moving pictures will be displayed as static images.

Gallery

Customize Highlights Albums

Highlights creates albums based on time and location information and generates a short video clip so you can instantly relive the good times. You can make a custom Highlights album by choosing your favorite photos and videos, then selecting a video template and the background music.

- To start using Highlights, open **Camera**, touch , and enable **Location tag**.
- Check that your Phone is connected to the Internet.
- Highlights albums are created automatically when your Phone is charging, the screen is turned off, and the battery is at least 50% charged. This process may take some time. Highlights albums will not be created if there are fewer than 7 photos or videos in Gallery.

Open  **Gallery**. From the **Highlights** tab, touch the Highlights album you want to view or edit. Now you can do any of the following:

- **Play or edit Highlights:** Touch  to play the video. Edit the video template or background music from the options bar at the bottom of the screen.
- **Play or edit Highlights:** Touch  to play the video. During playback, touch the video to select a preset template at the bottom of the screen. To customize even more, like changing the background music or filters, touch  at the top of the screen. Touch  to save and  to export. Share what you've created with your friends.

 Exported Highlights clips are saved under **Gallery > Albums > Videos**.

- **Add or delete photos and videos from Highlights:** To add a photo or video, touch , select a photo or video, then touch . To delete, touch and hold a photo or video, touch , then touch **Move**.

 Only videos in MP4 format can be added to Highlights.

- **Share photos and videos from Highlights:** Touch and hold any photo or video in the album, touch , select a sharing method, and follow the steps to complete the process.
- **Rename the album:** Go to  > **Rename** to enter a new name.
- **Delete the album:** Go to  > **Delete**, then touch **Delete**.

Photo Management

Photo Recognition Helps You Sort Photos Intelligently

Is sorting your photos taking too long? Are you having a hard time finding the photo you're looking for? Photo recognition can automatically sort your photos into categories such as portraits, locations, scenery, and food in Gallery, so you can quickly find what you're looking for.

Sort photos intelligently: Gallery will automatically sort the photos you take into categories such as portraits, locations, scenery, and food, so you can quickly find what you're looking for.

Customize photo aggregation: After Gallery automatically aggregates different portrait albums for you, you can manually change the album names of portraits and set the relationship (for example, "Baby" and "Mom"). After the setting is complete, you can view different photo albums by name. You can also search for a photo by searching for the name and relationship in the Gallery search bar.

Aggregate group photos into albums: After Gallery intelligently identifies the categories, you can name the generated albums. If there are more than 10 group photos, Gallery will cluster them and generate a group photo album.

Organize Albums

Add an album: From the **Albums** tab, touch **Add album**, name the album, then touch **OK**. Select the photos or videos you want to add.

Move photos and videos: Move photos and videos from various albums into the same one for easy management and browsing. Touch and hold a photo or video you want to move until  is displayed, then select all the photos and videos that you want to move. Touch  to select the desired album. Once the items are moved, they will no longer be in their original albums.

Add photos and videos to favorites: Add photos and videos to favorites for easier viewing. Open the photo or video that you want to add to the **My favorites** album, then touch . Favorited photos and videos will remain in their original albums and have a  icon on their thumbnails.

Delete photos and videos: Touch and hold a photo or album until the  icon appears. Select the items you want to delete, then go to  > **Delete**. Deleted photos and videos will remain for a time in the **Recently deleted** album before being permanently deleted. Days remaining before deletion are marked on the photos. To permanently delete a photo or video manually, touch and hold its thumbnail, then go to  > **Delete**.

Recover deleted photos and videos: In the **Recently deleted** album, touch and hold a photo or video until the  icon appears. Select the items you want to recover and touch  to restore them to their original albums. If the original album has been deleted, a new one will be created.

Optimizer

Enable Smart Power-Saving Management to Optimize Power Consumption

Running out of battery usually means trouble. Smart power-saving management helps you effectively extend the battery life of your Phone so you don't have to worry about running out of power.

Open  **Optimizer** and touch  to perform the following:

- **Comprehensive power consumption analysis and optimization:** Touch **Optimize battery usage** to check for power consumption problems and automatically perform optimizations.
- **Enable Power saving mode or Ultra power saving mode:** Enable **Power saving mode** or **Ultra power saving mode**. Choose a mode based on your Phone's battery level to extend battery life.

Once **Power saving mode** is enabled, the  icon will be displayed in your Phone's status bar depending on the battery level. **Power saving mode** reduces power consumption by limiting background app activity, visual effects and sounds. **Ultra power saving mode** adopts stricter background app control, allowing you to disable all features except Wi-Fi, mobile data, and any other specified ones.

- **View power consumption details:** Touch **Power consumption details**. In the **Power consumption details** section, colored bars beneath the **Charging** graph indicate that your device was charging. Gaps between the bars mean it was not charging. 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 running apps to save power. Enabling smart resolution may affect viewing quality. You can also manually set the screen resolution to save power when high resolution is unnecessary.
- **Display remaining battery percentage in the status bar:** Enable **Battery percentage** to display the remaining battery percentage of your device in the status bar.

To learn more about power saving settings, open  **Optimizer** and touch  > **More battery settings**. From here you can perform the following:

- **Enable notifications for power-intensive apps:** Touch **Power-intensive apps** to be alerted of these apps so you can disable them as needed.

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 emails list screen, touch , and then touch an account name to switch to.
- **Configure email accounts:** On the emails list screen, go to  > **Settings**, select an account to set **Account name**, **Default account**, and **Remove account**.

Create Smart Groups

Tired of having to manually enter multiple recipients when sending emails? Want to send emails to a fixed group of recipients? Use Smart groups to create different email groups.

Open  **Email** and open an email. From the sender or recipient field, touch **Add to group**. Select the sender or recipient that you want to add to the group, and touch **OK**. On the group selection screen, touch **Create group**. Enter a group name and then go to **Save** > .

After creating a group, from the list of contact groups, select the group you want to edit. You can then:

- **Add members:** Touch  to add new members to the group.
- **Send messages:** Touch  to send a message or touch  to send an email.

Import Important Events to Calendar

Worried about missing an important event among a sea of emails? You can import important events to Calendar and view them at anytime and anyplace.

Open  **Email**, select the event from the email, and select  > **Add to calendar**.

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 **Add 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.

Notepad

Manage Your Notes to Keep Your Records in Order

Want to share important notes or add something to favorites? Manage your notes to keep your records in order.

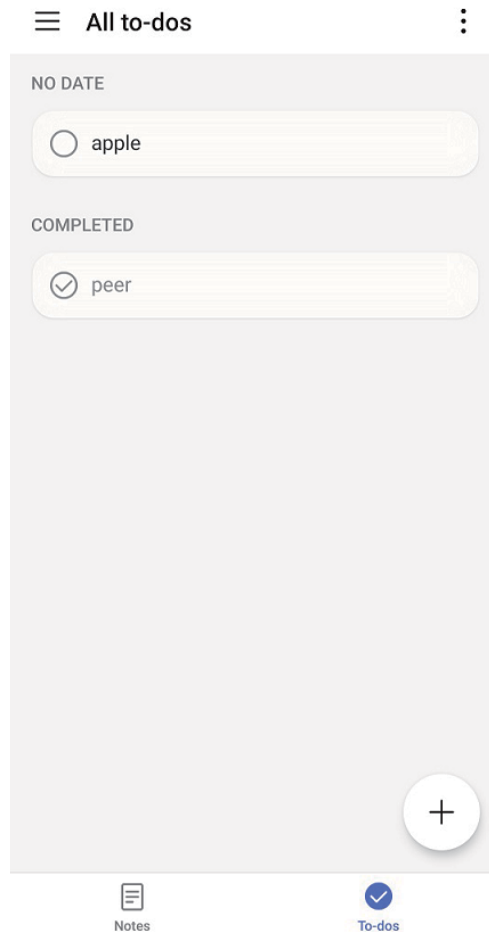
Share a note: Want to send your meeting notes to your colleague? On the list page of **All notes** or **All to-dos**, open the note you want to share, then touch  to select a sharing method and follow the onscreen prompts.

Add a note to favorites: Want to add a note to favorites so you can refer to it later? On the list page of **All notes**, swipe left on a note and touch . Alternatively, open the note you want to add to favorites and touch .

Search notes: Want to quickly find a note? Touch the search bar on the list page of **All notes** and enter the keywords into the search bar. Alternatively, swipe down on the home screen to access the search bar, and enter the keywords into the search bar.

Generate a to-do list: Want to create a shopping list? On the page of **Notepad**, touch  > , enter an item, and then touch **Save**. Add multiple items to generate a to-do list.

 After completing an item, go to the editing page of **All to-dos**, and select  on the left of the completed item.



Add a handwritten note: Want to quickly record your drawing or handwriting? Go to **Notes** > , touch , write your notes, and touch  to save it. You can write and draw in Notepad.

Add tags to notes: Want to easily view the categories of your notes? On the editing page of **Notes**, touch , and use different colored tags to categorize different content for a clearer view of your notes.

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.

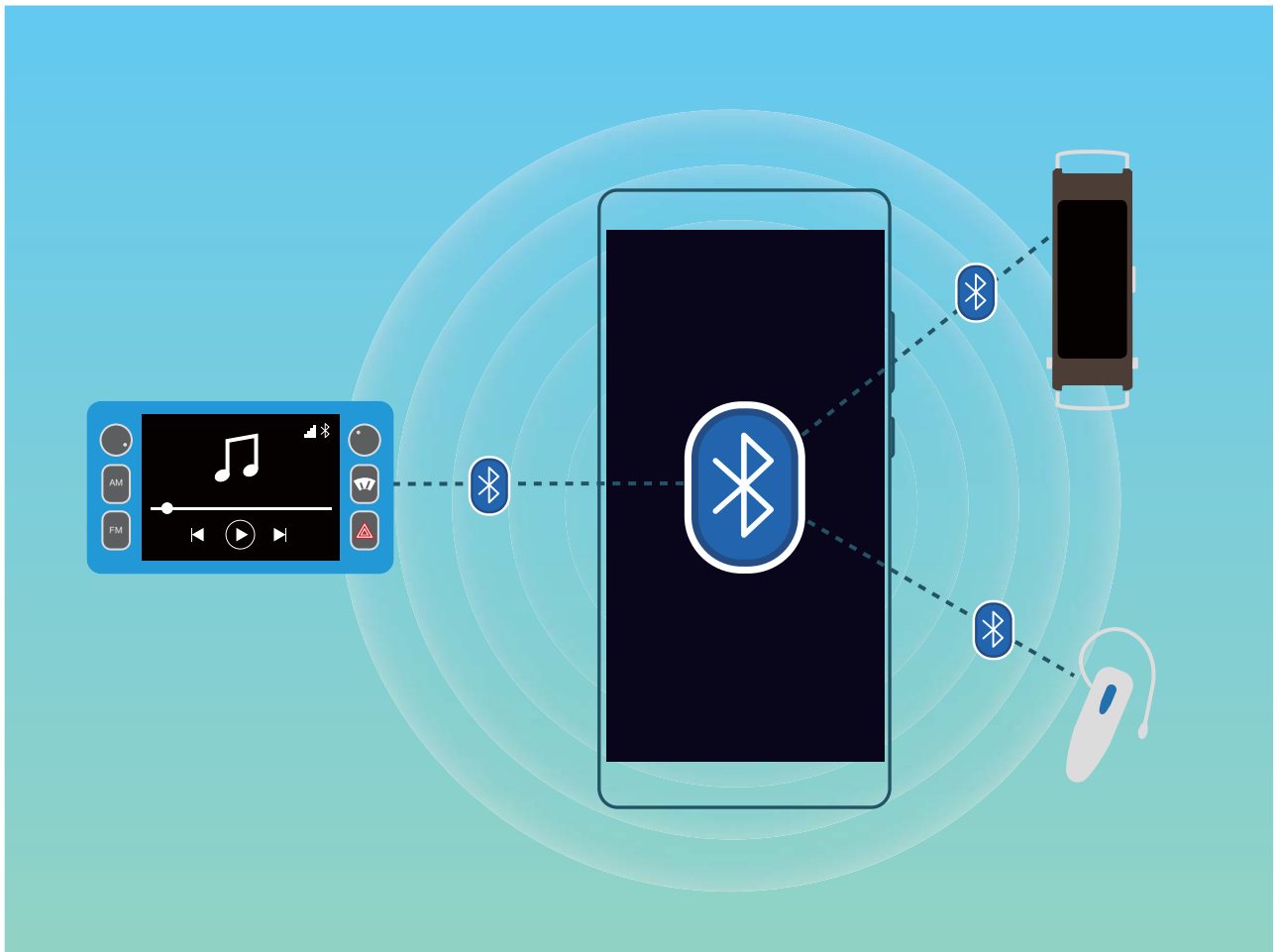
After the recording is completed, you can:

- **Play recording from tag:** In the recording file list, touch 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.

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, Phone, tablets, and computers.

NFC

Introduction to NFC

NFC (Near Field Communication) is a technology that enables short-distance wireless communication. Through NFC's point-to-point mode, two devices can transfer data in real time when they are within 10 cm (4 inches) of each other. Photos, networks, and apps can all be quickly shared using this method. NFC read/write mode lets you check product information contained in NFC tags. NFC card emulation mode allows your device to act as a bank card for quick and easy payments.



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.

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 > Touch for more options** 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 charge:** 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.

Huawei Share

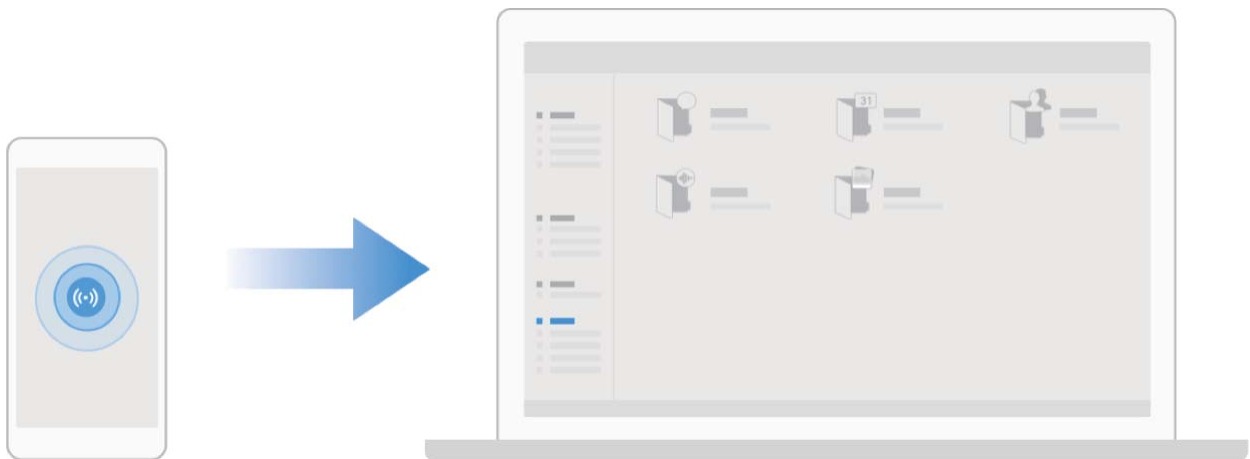
Introduction to Huawei Share

How do I quickly share apps, transfer pictures and files between my Phone and other mobile devices, or between my Phone and computers? Huawei Share allows you to quickly share apps and wirelessly transfer files between your phone, tablet, and computer.

Huawei Share supports data transfers between the following devices:

- Between mobile phones and tablets: You can use Huawei Share to share photos and files on your Phone with other phones or tablets. Touch and hold the apps, photos, and files you want to share, and then select Huawei Share to enjoy a simple and easy sharing process that doesn't consume your mobile data.
- Between your Phone and computer (PC or Mac): You can use Huawei Share to share photos and files on your Phone with your computer, and you can also edit these photos on your computer. Thanks to Huawei Share, you don't even need a USB cable for data transfer between your Phone and computer.

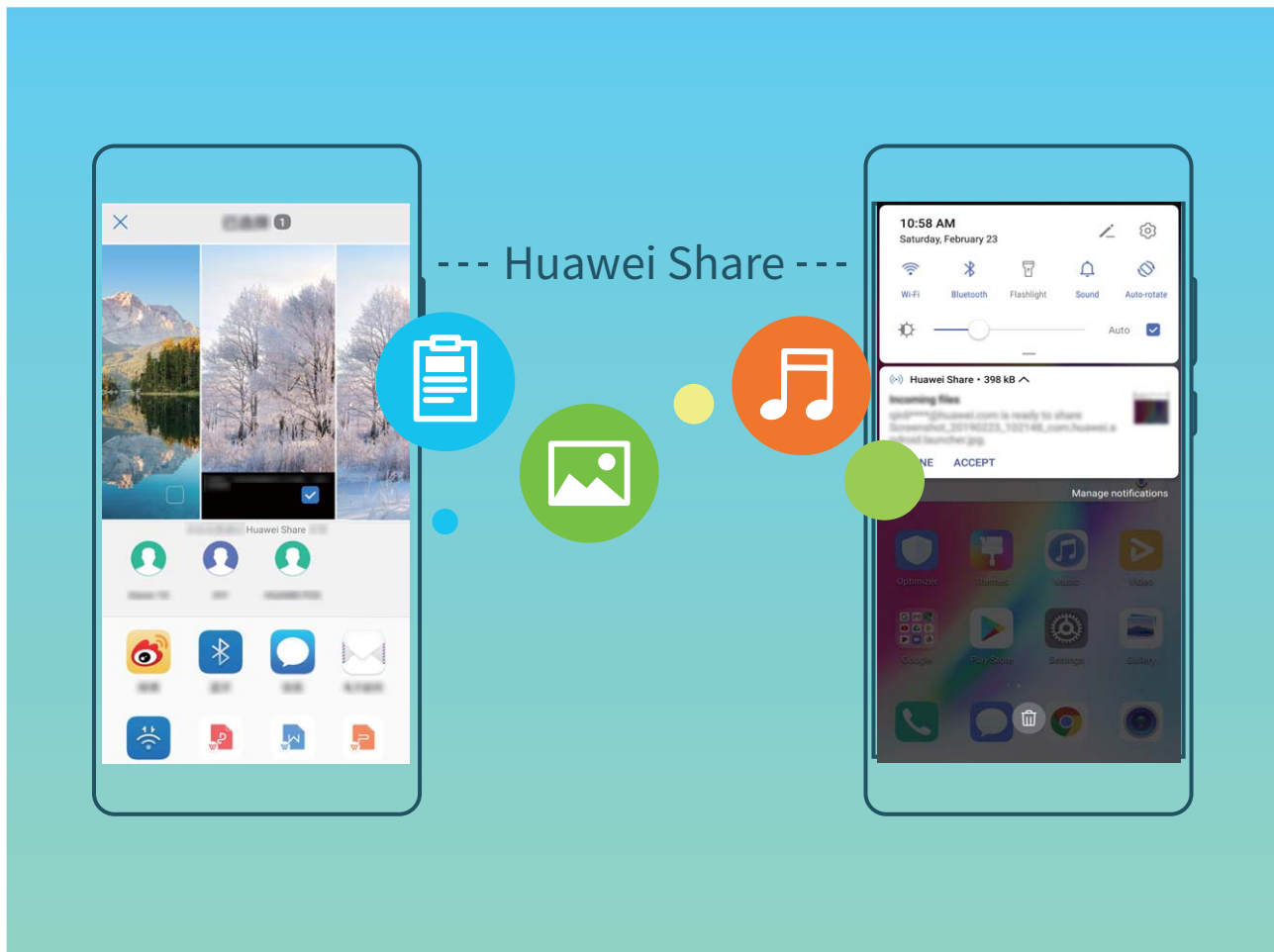
- Both your Phone and computer must be connected to the same network (for example, to the same Wi-Fi network).



Use Huawei Share to Quickly Share Files Between Huawei Devices

You can use Huawei Share to quickly transfer photos, videos and other files between Huawei devices. Huawei Share uses Bluetooth to detect other nearby Huawei devices and then uses Wi-Fi Direct to quickly transfer files without using mobile data.

- Huawei Share uses Wi-Fi and Bluetooth to transfer data. When Huawei Share is enabled, both Wi-Fi and Bluetooth are automatically enabled.



Use Huawei Share to send files: Select the files you want to share and then touch **Share**. To send files, select a receiving device from the list of nearby devices and confirm.

Use Huawei Share to receive files: Swipe down from the status bar to open the notification panel, and then touch  to enable Huawei Share. Touch **ACCEPT** when the file transfer notification is displayed. Received files are saved by default to your **Huawei Share** folder in **Files**.

 No confirmation is required if the two Huawei devices have been logged in using the same HUAWEI ID.

Security and Privacy

Face Unlock

Enroll Your Facial Information and Enable Face Unlock

Face unlock allows you to unlock your Phone quickly and securely, without the need of a password.

- ⚠️ • Face unlock can only be used when the owner account is logged in. It is not supported by PrivateSpace.
- Face unlock is not available if the lock screen password has not been entered for three or more days in a row, or if your Phone has been remotely locked or restarted.
- When using Face unlock, keep your eyes open, and face your Phone straight on from a distance of 20–50 cm (about 8–20 in.). In order to scan your face accurately, avoid using this feature when you are in a dark environment or facing direct light.
- Currently, only one face can be enrolled. Delete the current facial data to enroll again.

- 1 Open  **Settings**. Go to **Security & privacy > Face recognition** and enter your lock screen password.
 -  If you haven't set up a lock screen password, set one first. Besides the 6-digit PIN, you can set up other types of passwords: **Pattern**, **4-digit PIN**, **Custom PIN**, or **Password**.
- 2 Selecting **Enable Pick up to wake device to enhance the Face unlock experience** will allow the screen to turn on and unlock when you pick up your Phone and hold it to your face. If you do not need this feature, leave it deselected. Touch **Get started**, and enroll your face.
- 3 Face unlock modes:
 - **Select an unlock method**: On the **Face recognition** screen, touch **Unlock device**. If you select **Direct unlock**, your Phone identifies your facial features and unlocks your screen when the screen is on. If you select **Slide to unlock**, after your Phone identifies your facial features, you can slide the lock screen to unlock. Selecting **Off** will disable Face unlock.
 - **Smart display of lock screen notifications**: Enable **Show notifications**. On the lock screen, your Phone hides notification details and displays them only after recognizing the owner's face.
 - **Access App lock**: Enable **Access app lock** to access App lock 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.

-  Facial data will be erased if you reset all settings, restore your device to its factory settings, or set your password to none.
- Facial data will not be erased after a HOTA update.

Fingerprint

Introduction to Fingerprint Recognition

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.
- **Perform fingerprint shortcuts:** Can't reach the shutter button to take a photo? Want a faster way to answer a call or turn off an alarm? Set fingerprint shortcuts to quickly take photos, answer calls, and turn off alarms with any of your fingers.

Use Fingerprint Shortcuts for Faster Device Operation

Can't reach the shutter button to take a photo, or want a faster way to answer a call or turn off an alarm? You can use any of your fingertips to quickly take photos and answer calls with the fingerprint sensor. No fingerprint verification is required.

Open  **Settings**, and go to **Security & privacy > Fingerprint ID**. From here, you can enable fingerprint shortcuts for the following features:

- **Take a photo or video:** From the viewfinder screen of Camera, touch and hold the fingerprint sensor to take a photo or video.
- **Answer a call:** Touch and hold the fingerprint sensor to answer a call.
- **Turn off an alarm:** Touch and hold the fingerprint sensor to turn off an alarm.
- **Show the notification panel:** When your screen is in portrait mode, swipe down on the fingerprint sensor to display the notification panel, touch twice to clear notifications, and swipe up to close the notification panel.
- **Browse pictures:** When viewing pictures in full-screen mode, swipe left or right on the fingerprint sensor to browse through your pictures.

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.

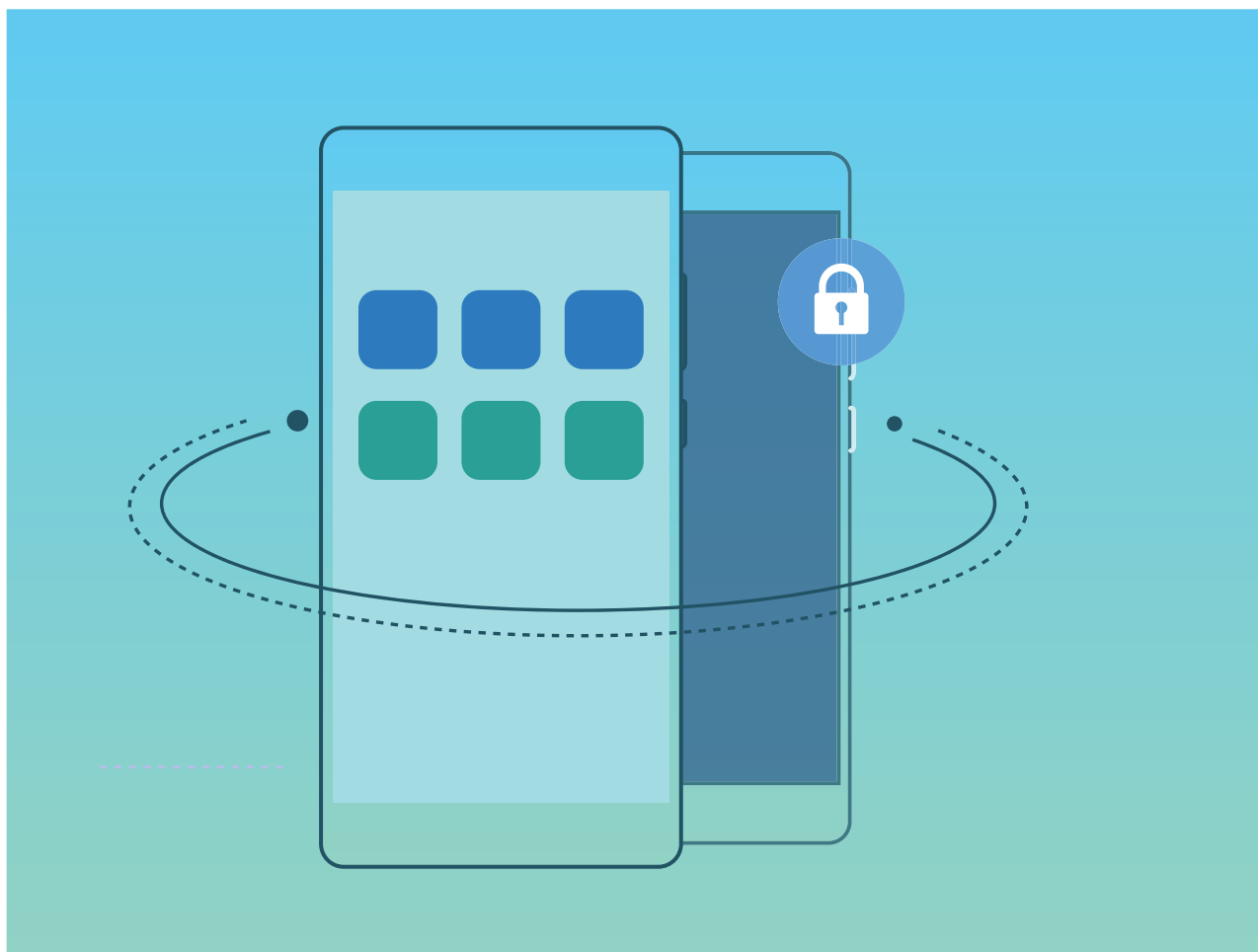
-  • Features may vary depending on your carrier.
 - Huawei only uses location data to provide you with necessary functions and services, not for the purpose of identifying and collecting your private information.

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.
- i** 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.

Enable PrivateSpace

Do you worry that potentially embarrassing information might be seen by your friends and co-workers when you are showing them photos and other things on your Phone? PrivateSpace lets you store

private information in a hidden space within your device that can only be accessed with your fingerprint or password.

-  You can add up to three users to **Users** and **PrivateSpace** on your Phone. If you have already added three users under **Settings > Users & accounts > Users > Add user**, you cannot add more users to **PrivateSpace**.

Enable PrivateSpace: If you are using PrivateSpace for the first time, open  **Settings**, go to **Security & privacy > PrivateSpace > Enable**, and follow the onscreen instructions to create your PrivateSpace.

-  You can only create one PrivateSpace.

Quickly switch between MainSpace and PrivateSpace: From the lock screen, you can quickly switch between spaces using your fingerprint or password. After you restart your Phone, you are required to first enter the MainSpace using your password. You can then switch between spaces from your lock screen.

Enter PrivateSpace: You can enter your PrivateSpace directly from the lock screen using your fingerprint or password. Alternatively, open  **Settings** in MainSpace, and go to **Security & privacy > PrivateSpace > Log in** to enter your PrivateSpace.

Exit PrivateSpace: After entering your PrivateSpace, open  **Settings**, and go to **Security & privacy > PrivateSpace > Exit**. When you exit your PrivateSpace, all system memory used by the PrivateSpace will be freed. You can still switch back to your PrivateSpace when you need it.

Delete PrivateSpace: Deleting your PrivateSpace will permanently delete all apps and data stored within your PrivateSpace and this data will be unable to be restored. You can delete your PrivateSpace in the following ways:

- From the MainSpace, open  **Settings**, then go to **Security & privacy > PrivateSpace** and touch  **> Delete PrivateSpace**.
- In PrivateSpace, open  **Settings**, and go to **Security & privacy > PrivateSpace > Delete**.

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 PrivateSpace and MainSpace

Quickly transfer private photos, music, or videos between your PrivateSpace and your MainSpace.

- 1** In 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 files and transfer them to the target location.
 -  Files stored on your device or NM card can be transferred from your MainSpace to your PrivateSpace. Only files stored locally on your device can be transferred from your PrivateSpace to your MainSpace. Files stored in the cloud cannot be transferred between your PrivateSpace and MainSpace. Not all devices support NM cards (nano memory cards).

By default, transferred image files are stored in **Gallery > Shared images**, video files are stored in **Gallery > Shared videos**, and audio files are stored in **Files > Internal storage > Move files > Shared 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

Too many passwords to remember? Can't enter my PrivateSpace without a password? 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: After entering your PrivateSpace, open  **Settings**, and go to **Security & privacy > PrivateSpace**. Touch **Password protection** and follow the onscreen instructions to enter your MainSpace and PrivateSpace passwords to enter the password 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 answer to the security question 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 and the answer to the security question, and then set your PrivateSpace password.

 You can reset the PrivateSpace password in the MainSpace only after you set the password security question in your PrivateSpace.

 **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 these apps. App lock adds an extra layer of protection for your private information and prevents unauthorized access to important apps on your Phone.

Enable App lock: Open  **Settings**. Go to **Security & privacy > App lock**. When you first access App lock, select **Lock screen password** or **Custom PIN** as your **App lock** verification password. Enter your password as prompted and on the **App lock** screen, toggle on the switch for the apps you want to lock.

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

Set your App lock password: Touch  on the **App lock** screen, then touch **Password type**. Select **Lock screen password** or **Custom PIN**.

 If you enter the wrong password five times in a row while logging in to App lock, your Phone will remain locked for one minute. Try again after one minute. If you enter the wrong password another three times in a row, you will need to wait 10 minutes to try unlocking again.

Backup and Restoration

Data Backup: Prevent the Loss of Your Data

Worried about losing important data on your Phone? Protect yourself against data loss with regular data backups.

You can back up the data in your Phone in the following ways:

- **To an NM card:** If your Phone supports an NM card (nano memory card), you can back up your data to the NM card at any time to prevent data loss.
 -  Not all devices support NM cards (nano memory cards).
 - Insert the NM card (nano memory card) into slot 2. If necessary, you can purchase it from Vmall or an authorized Huawei store.
- **To a USB storage device:** Using a USB OTG cable, you can connect your Phone and back up your important data to a USB storage device.
- **To your computer or home NAS devices:** Using Wi-Fi scanning to detect shared folders on the same Wi-Fi network, you can back up all your Phone's important data, such as pictures and large files, to your computer or home NAS devices to prevent data loss and free up storage space on your Phone.

Data Backup to a USB Storage Device

If you are running out of storage space on your Phone or you want to back up your important data to an external storage device, you can connect your Phone to a USB storage device using a USB OTG cable and back up your data to the storage device. USB storage devices compatible with your Phone include USB flash drives, card readers, and devices with an Memory card inserted.

Open  **Settings**, go to **System > Backup & restore > Data backup > External storage > USB storage**, then touch **BACK UP**. On the **Select data** screen, select the data you want to back up and touch **Back up**.

-  You can enable **Auto-backup** on the backup page. If your device has more than 75% of the battery's capacity left, the system will automatically back up the data when the screen is off.
- You can go to  **> Backup encryption > Encrypt backups** to enable **Backup encryption** on the backup page, and then set a password when prompted. The password will be used when you want to restore files later. Always remember your backup password or set security questions to help remember the password as you will not be able to retrieve your backup files without it.

Reset Your Phone

If the operating speed of your Phone starts to slow down due to long-term accumulation of caches and residual files, you can reset your Phone to erase these cached files completely and restore your device's factory settings.

Reset network settings: This will restore your Wi-Fi, mobile data network, and Bluetooth settings, including hotspot tethering and Bluetooth pairing information. It won't change other settings on your Phone, or delete any data or files.

Open  **Settings**, go to **System > Reset > Reset network settings**, touch **RESET NETWORK SETTINGS**, and follow the onscreen instructions to reset the settings.

Restore all settings: This will restore your device's initial network settings, fingerprint data, face data, and lock screen passwords. It won't reset settings for Find my Phone or HUAWEI ID, nor will it delete any data or files.

Open  **Settings**, go to **System > Reset > Reset all settings**, touch **Reset all settings**, and follow the onscreen instructions to reset the settings.

Restore factory settings: This will delete all data in your device's memory and storage, including your account settings, system settings, app data, installed apps, music, images, and documents, and restore your Phone to its original factory settings. Back up your data before restoring your device to its factory settings.

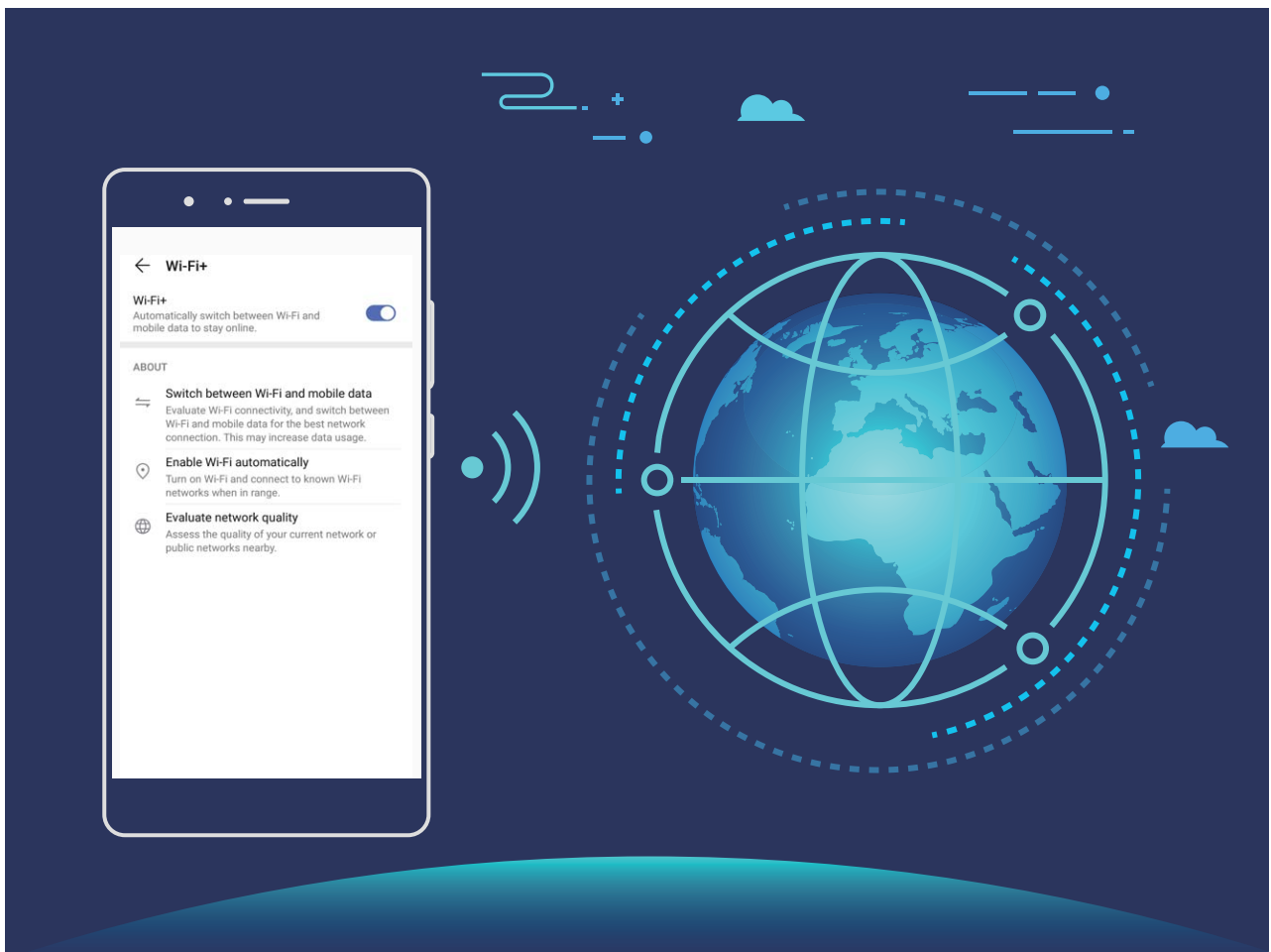
Open  **Settings**, go to **System > Reset > Reset phone**, touch **Reset phone**, enter the screen unlock password (if any), and follow the onscreen instructions to reset the settings.

Wi-Fi and Network

Wi-Fi

Introduction to Wi-Fi+

Wi-Fi+ intelligently connects to Wi-Fi networks to save mobile data consumption. When your device detects a known or free Wi-Fi network, it will automatically turn on Wi-Fi and connect to the network. Your device will also automatically select the optimal network in the area for the best Internet connection.



Once you have enabled Wi-Fi+, your device will:

- **Automatically select and connect to the optimal network:** Automatically select and connect to Wi-Fi networks you've previously connected to, free networks, or your mobile data network, depending on the signal strength at your current location.

 You can view the connection status by checking the icons in the status bar:

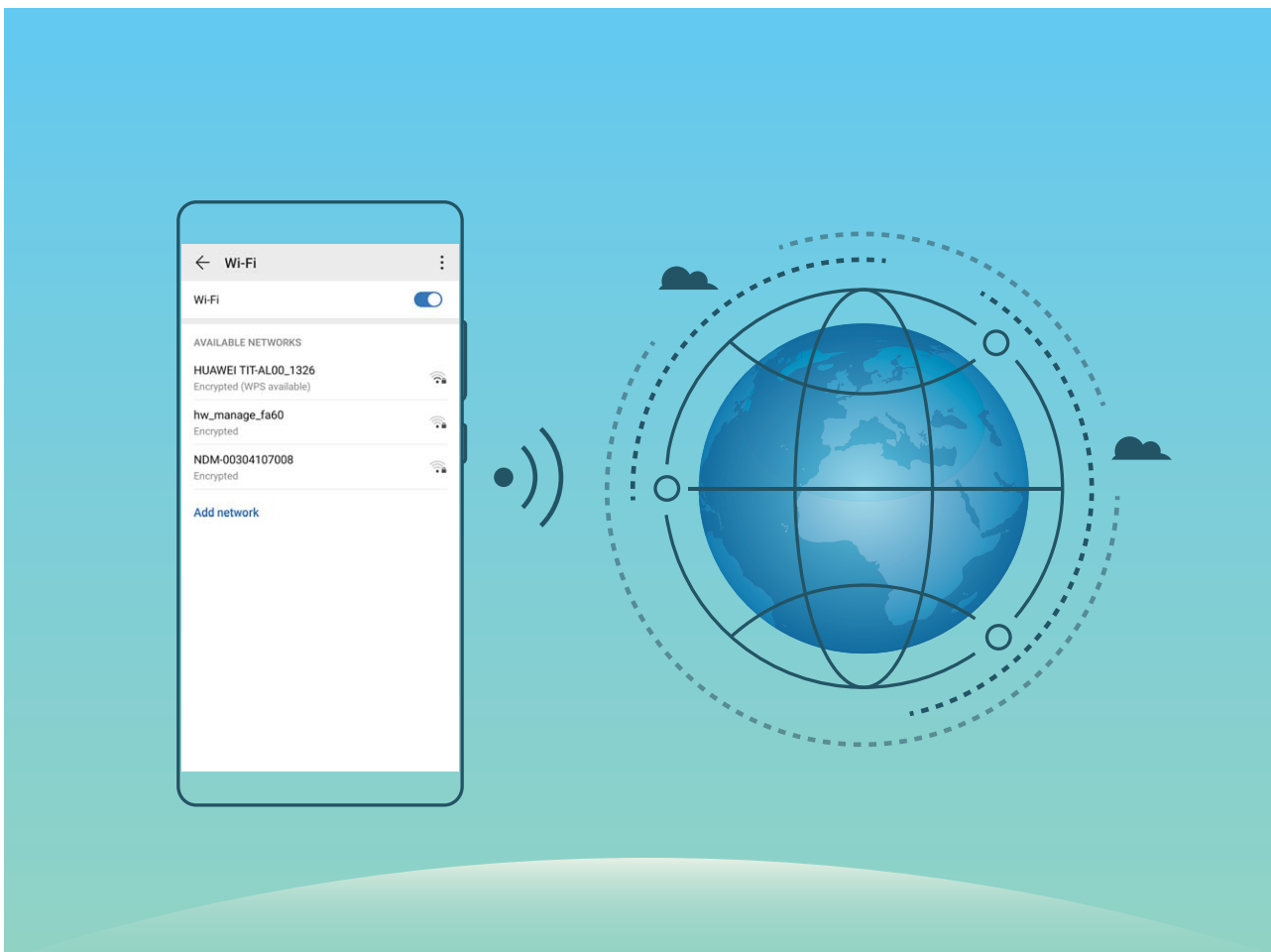
- The  icon indicates that your device is connected to the Internet over Wi-Fi.
- The  icon in the bottom left of the signal bar indicates that your device is connected to the Internet over mobile data.

- **Automatically turn Wi-Fi on:** Depending on the Wi-Fi networks you have connected to previously, Wi-Fi will be automatically enabled in specific locations. This will prevent your device from constantly searching for new networks.
- **Assess the quality of available networks:** Evaluate currently available network hotspots and prevent your device from automatically connecting to networks with no Internet connection.

Connect to Wi-Fi

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

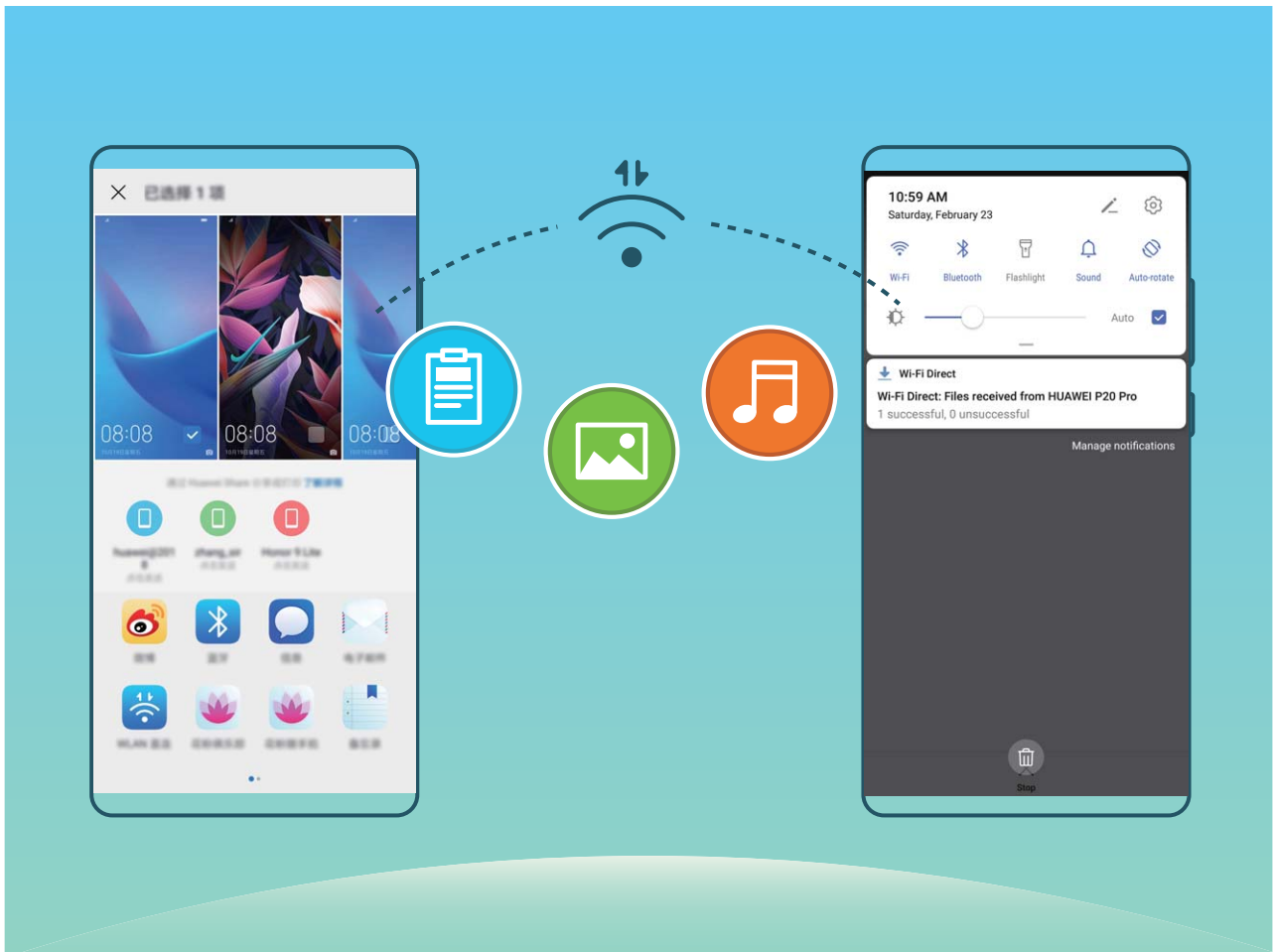
- To avoid potential security risks (such as unauthorized access to your personal data and financial information), please exercise caution when connecting to a public Wi-Fi network.



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 >  > 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.

Share Your Mobile Network with Other Devices

You can share your mobile data with your friends.



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 Wi-Fi hotspot name, encryption type, and password, then touch **Save** and enable the hotspot to use it.

Use Bluetooth to share mobile data: Connect your device to another device using Bluetooth, then enable Bluetooth tethering to share your mobile data. Open  **Settings**, go to **Wireless & networks > Tethering & portable hotspot**, and enable **Bluetooth tethering**. On the **Bluetooth** settings screen of the paired device, touch next to the paired device, then 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 your computer's operating system, you may need to install device drivers or establish the relevant network connection on your computer before using this feature. 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.

Sound and Display

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**.

Enable Eye Comfort Mode to Prevent Eye Strain

Do your eyes get tired and sore after looking at your Phone for a long time? Eye comfort mode can effectively reduce blue-light and adjust the screen to warmer colors, relieving eye fatigue and protecting your eyesight.

Enable Eye comfort mode: Open  **Settings**, go to **Display** > **Eye comfort**, and enable **Eye comfort**. The Eye comfort mode icon  will be displayed in the status bar. Once Eye comfort mode is enabled, blue light will be filtered out and the screen will take on a yellow tint.

Quickly enable or disable Eye comfort mode: Swipe down from the status bar to open the notification panel. From the notification panel, expand the shortcuts panel, then enable or disable .

Enable Eye comfort mode at set times: You can configure your Phone to enable Eye comfort mode for a set period of time each day. When Eye comfort mode is disabled, open  **Settings**, go to **Display** > **Eye comfort**, and enable **Scheduled**, then set your desired **Start time** and **End time**.

Adjust the color temperature in Eye comfort mode: Once Eye comfort mode is enabled, blue light will be filtered out and the screen will take on a mild yellow tint. This is normal and does not indicate an issue of your device. You can adjust the color temperature as needed. After you have enabled **Eye comfort**, you can adjust the color temperature slider for a cooler or warmer screen color.

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. Use Memory cleanup to free up storage space, improve system performance, and keep your Phone running smoothly.

Open  **Optimizer**, then touch **Cleanup** to clean up memory and clear the cache to optimize performance. If your storage space is still low, 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.

Accessibility

Enable TalkBack to Have Onscreen Content Read Aloud

Your Phone reads aloud content on the screen that you touch, select, or activate, helping you interact with your Phone when you can't read content on your screen clearly.

- 1 Open  **Settings** and go to **Smart assistance > Accessibility > TalkBack > More settings** to enter the TalkBack settings screen.
- 2 Enable **TalkBack** and touch **OK**. Your device will launch a tutorial when you enable TalkBack for the first time. If you need to listen to the tutorial again, touch **More settings** to enter the TalkBack settings screen, and launch the tutorial.
- 3 Touch **More settings** and enable **Explore by touch**. Your device will read aloud content that you touch.

You may have enabled TalkBack by accident. To disable TalkBack, press and hold the Volume up and down buttons for at least three seconds, or press and hold the Power button until your device vibrates, then touch the screen with two fingers for at least three seconds.

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

You can change the system language on your Phone as needed.

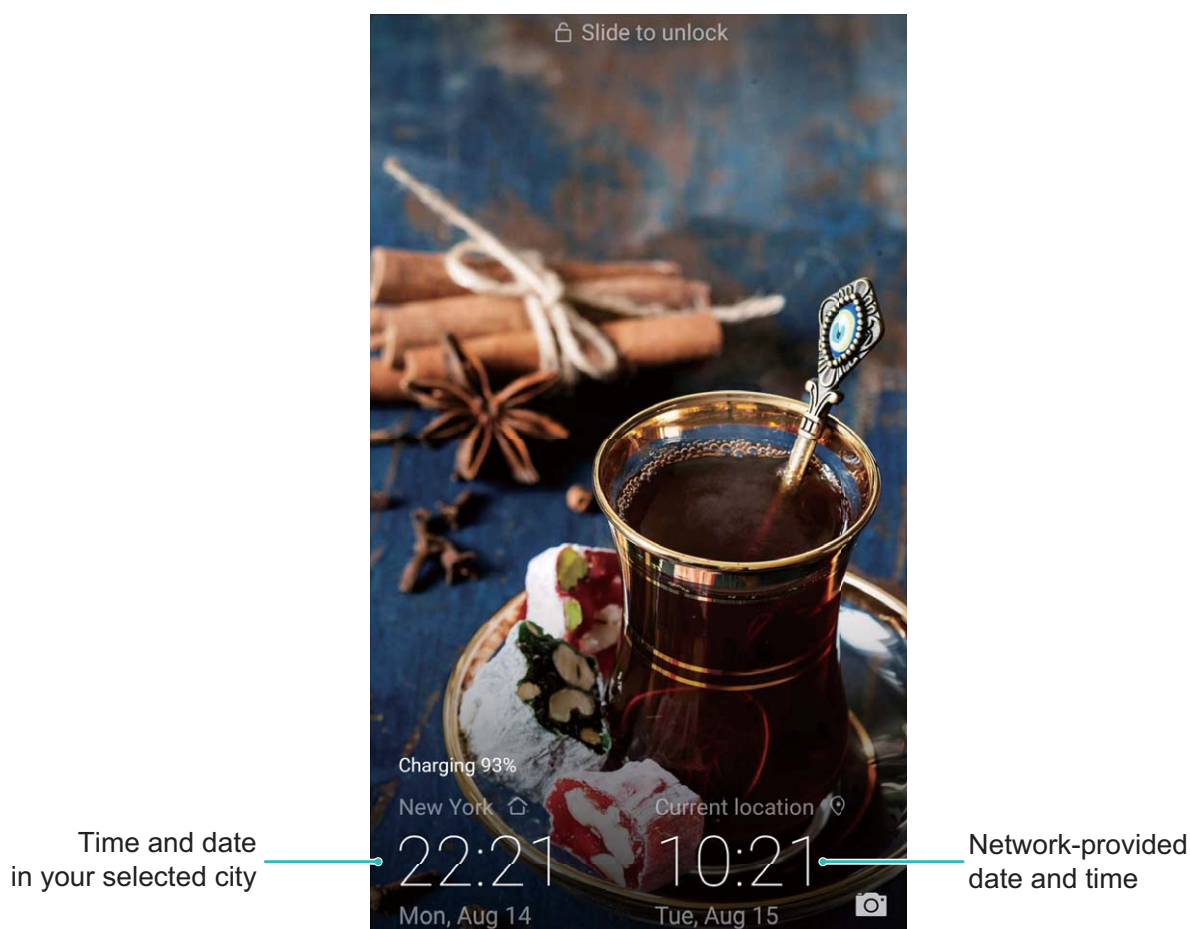
Open  **Settings**, go to **System > Language & input > Language** and select the language you want to use. If the language you want to use is not listed, touch **Add language**, search for language, and then select it.

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.

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

Update the Phone System Online

Your Phone will prompt you to download and install a system update whenever one is available. Online updates are secure and convenient.

-  Before installing the update, connect your Phone to the Internet. Online updates consume mobile data, so it is recommended that you connect your Phone to a Wi-Fi network when updating.
- Make sure that the level of remaining battery power is greater than 15% during the update.
- Using unauthorized third-party software to update your Phone may damage your Phone or put your personal information at risk. You are advised to update your Phone online or bring your Phone and proof of purchase to an Authorized Huawei Customer Service Center for updates.
- Your data may be erased after a system update. Back up important data before updating your Phone.
- After the update, certain third-party apps, such as e-banking and game apps, may be incompatible with the new system. Regularly update these third-party apps to fix compatibility issues.

1 Open  **Settings**.

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

- When the system detects a new version, go to **New version****DOWNLOAD AND INSTALL**.

Phone updates take some time. Do not perform any operations during the update. After an update, your Phone will automatically restart.

Legal Notice

Legal Notice

Copyright © Huawei Technologies Co., Ltd. 2019. All rights reserved.

No part of this manual may be reproduced or transmitted in any form or by any means without prior written consent of Huawei Technologies Co., Ltd. and its affiliates ("Huawei").

The product described in this manual may include copyrighted software of Huawei and possible licensors. Customers shall not in any manner reproduce, distribute, modify, decompile, disassemble, decrypt, extract, reverse engineer, lease, assign, or sublicense the said software, unless such restrictions are prohibited by applicable laws or such actions are approved by respective copyright holders.

Trademarks and Permissions



HUAWEI, HUAWEI,



and are trademarks or registered trademarks of Huawei Technologies Co., Ltd.

Android™ is a trademark of Google Inc.

The *Bluetooth*® word mark and logos are registered trademarks owned by *Bluetooth SIG, Inc.* and any use of such marks by Huawei Technologies Co., Ltd. is under license.

Qualcomm® aptX™



and

Qualcomm® aptX™ HD



are registered trademarks of Qualcomm Inc.

(NASDAQ: QCOM).



The N-Mark is a trademark or registered trademark of NFC Forum, Inc. in the United States and in other countries.

Other trademarks, product, service and company names mentioned may be the property of their respective owners.

Notice

Some features of the product and its accessories described herein rely on the software installed, capacities and settings of local network, and therefore may not be activated or may be limited by local network operators or network service providers.

Thus, the descriptions herein may not exactly match the product or its accessories which you purchase.

Huawei reserves the right to change or modify any information or specifications contained in this manual without prior notice and without any liability.

Third-Party Software Statement

Huawei does not own the intellectual property of the third-party software and applications that are delivered with this product. Therefore, Huawei will not provide any warranty of any kind for third

party software and applications. Neither will Huawei provide support to customers who use third-party software and applications, nor be responsible or liable for the functions or performance of third-party software and applications.

Third-party software and applications services may be interrupted or terminated at any time, and Huawei does not guarantee the availability of any content or service. Third-party service providers provide content and services through network or transmission tools outside of the control of Huawei. To the greatest extent permitted by applicable law, it is explicitly stated that Huawei shall not compensate or be liable for services provided by third-party service providers, or the interruption or termination of third-party contents or services.

Huawei shall not be responsible for the legality, quality, or any other aspects of any software installed on this product, or for any uploaded or downloaded third-party works in any form, including but not limited to texts, images, videos, or software etc. Customers shall bear the risk for any and all effects, including incompatibility between the software and this product, which result from installing software or uploading or downloading the third-party works.

This product is based on the open-source Android™ platform. Huawei has made necessary changes to the platform. Therefore, this product may not support all the functions that are supported by the standard Android platform or may be incompatible with third-party software. Huawei does not provide any warranty or representation in connect with any such compatibility and expressly excludes all liability in connection with such matters.

DISCLAIMER

ALL CONTENTS OF THIS MANUAL ARE PROVIDED "AS IS". EXCEPT AS REQUIRED BY APPLICABLE LAWS, NO WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE MADE IN RELATION TO THE ACCURACY, RELIABILITY OR CONTENTS OF THIS MANUAL.

TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL HUAWEI BE LIABLE FOR ANY SPECIAL, INCIDENTAL, INDIRECT, OR CONSEQUENTIAL DAMAGES, OR LOSS OF PROFITS, BUSINESS, REVENUE, DATA, GOODWILL SAVINGS OR ANTICIPATED SAVINGS REGARDLESS OF WHETHER SUCH LOSSES ARE FORSEEABLE OR NOT.

THE MAXIMUM LIABILITY (THIS LIMITATION SHALL NOT APPLY TO LIABILITY FOR PERSONAL INJURY TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH A LIMITATION) OF HUAWEI ARISING FROM THE USE OF THE PRODUCT DESCRIBED IN THIS MANUAL SHALL BE LIMITED TO THE AMOUNT PAID BY CUSTOMERS FOR THE PURCHASE OF THIS PRODUCT.

Import and Export Regulations

Customers shall comply with all applicable export or import laws and regulations and be responsible to obtain all necessary governmental permits and licenses in order to export, re-export or import the product mentioned in this manual including the software and technical data therein.

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.

Get More Information

For more information, you can enter a feature name in the search box of **Tips**.

This guide is for reference only. The actual product, including but not limited to the color, 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 or microSD card-based update, 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 recently updated hotline and email address in your country or region.

Model : ANE-LX1
ANE-LX2
ANE-LX2J
ANE-LX3
ANE-AL00

EMUI 9.1_01

Qualcomm[®]
aptX[™]

