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User Guide

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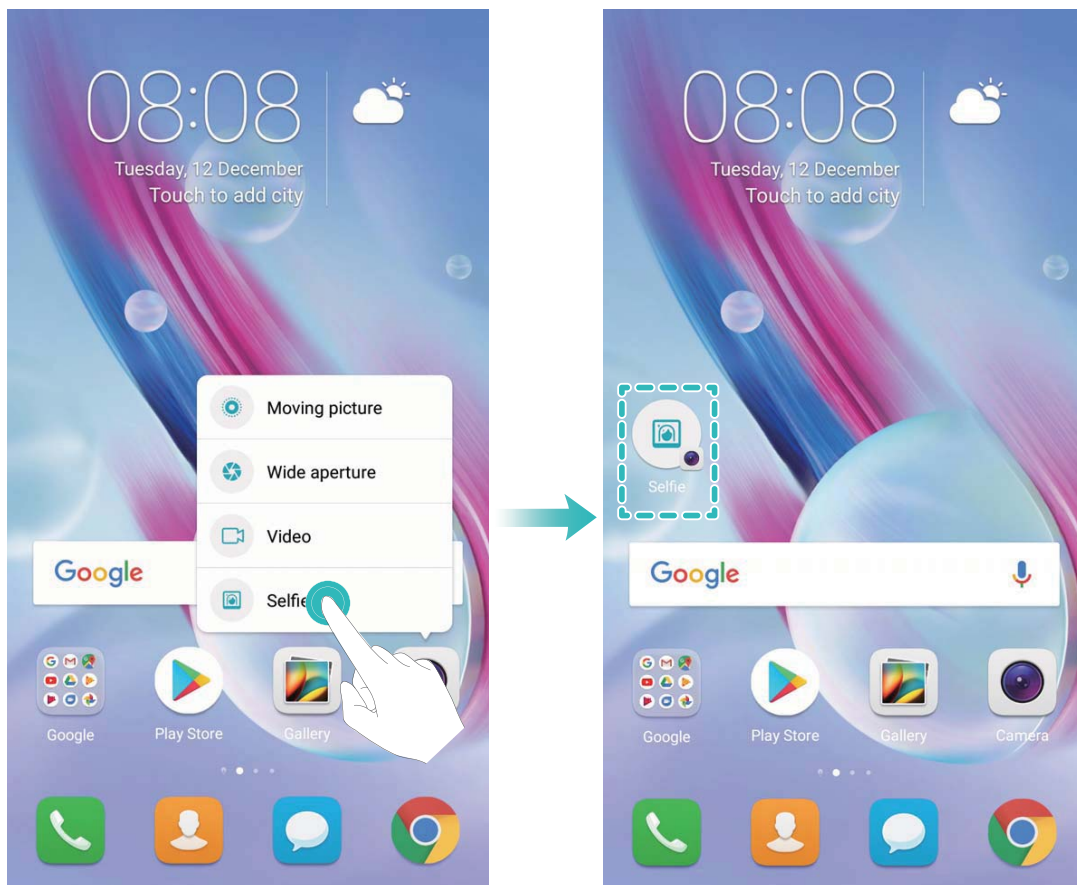
Exciting Features

Tips

Use Shortcuts to Access Frequently Used Features

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.

- i If you touch and hold an app icon and a shortcut is not created, the app does not support home screen shortcuts.



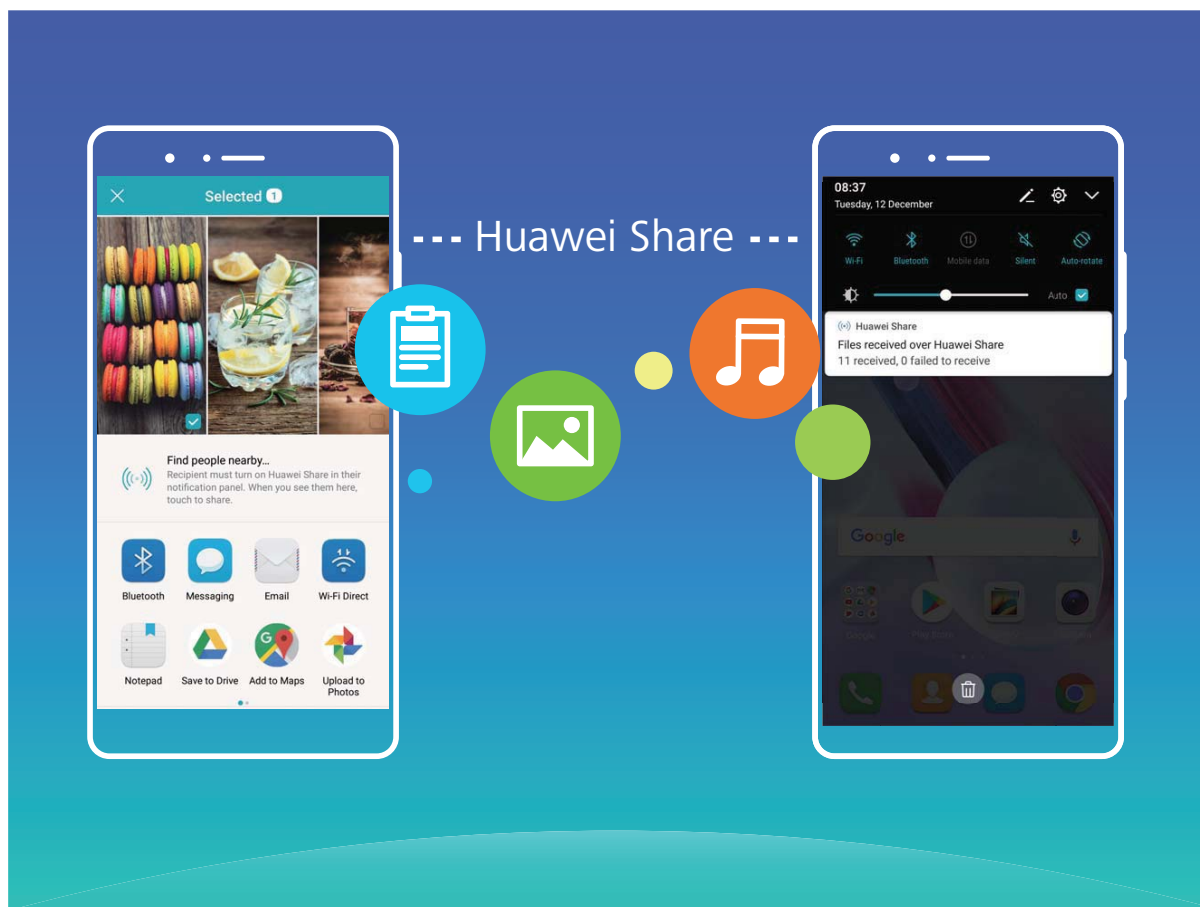
Quickly access frequently used app features: Touch and hold an app icon on your home screen, and then touch a frequently used feature to access it. Each app supports up to four frequently used features. These are preset by the app and cannot be changed. For example, to take a selfie, touch and hold the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

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 camera.

Transfer Files Using Huawei Share

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

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



Use Huawei Share to send files: Select the file you want to share and touch **Share**. Select the receiving device from the list of nearby devices to send the file.

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

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 only works with WeChat, QQ, LINE, Facebook, Snapchat, WhatsApp, and Messenger. Download the latest versions of these apps before using this feature.

Open  **Settings**. Go to **Apps & notifications > App twin** and enable App twin for WeChat, QQ, LINE, Facebook, Snapchat, WhatsApp, or Messenger as required.

When App twin is enabled, two WeChat, QQ, LINE, Facebook, Snapchat, WhatsApp, or Messenger app icons are displayed 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.

Use Portrait Mode to Capture Stunning Portraits

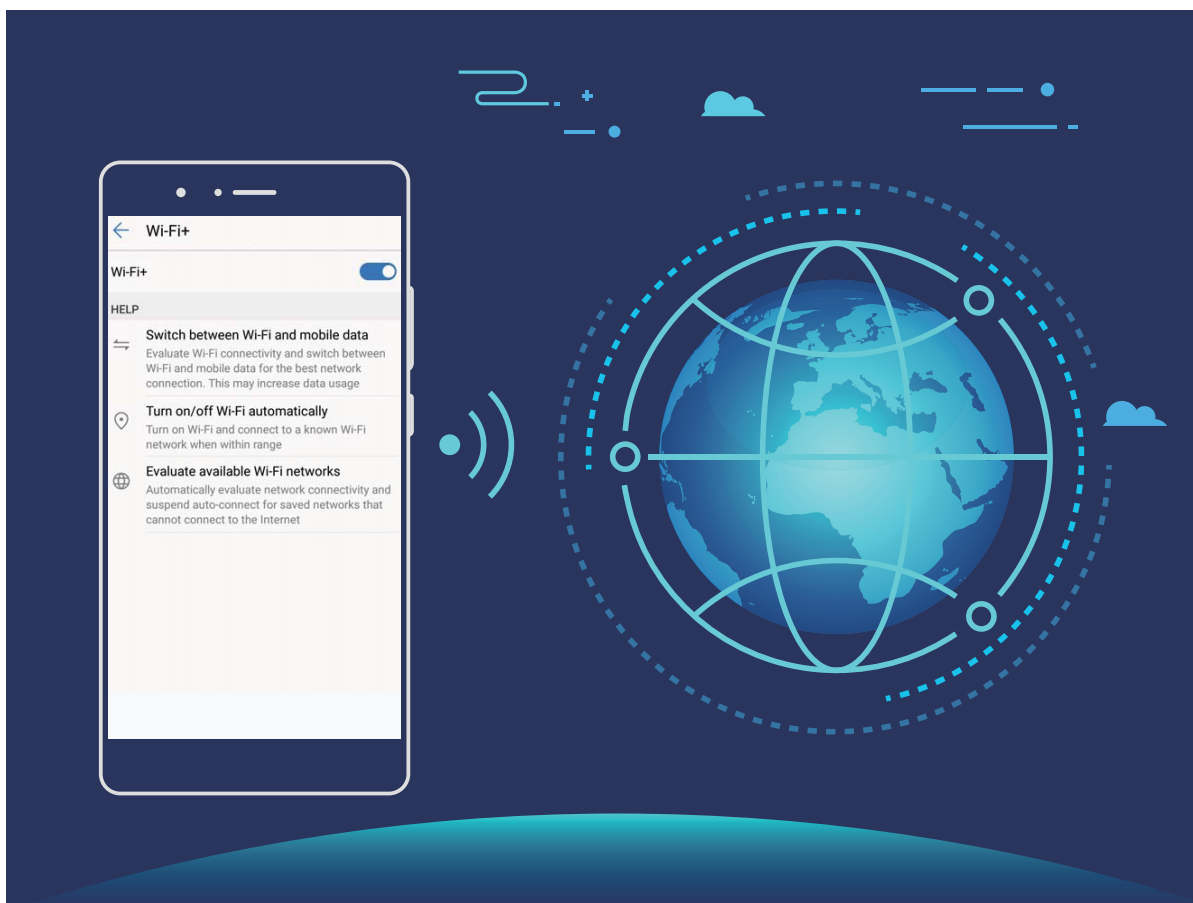
Want to always look your best in your selfies? Portrait mode lets you configure different beautification settings and create an information database for custom beautification.

-  If you take a selfie at night or in low light conditions, your Phone will detect the low ambient light and automatically enable Night mode to improve the quality of selfies. This mode does not have a switch and is automatically enabled when your device detects low ambient light. Your device will prompt you when it enables this mode.
- **Portrait mode:** Enable Portrait mode to automatically apply beautification effects to everyone in the frame.
- **Perfect selfie:** Enable Perfect selfie and your Phone will create a custom beauty plan for you. The higher the beautification level, the more pronounced the effects.

More Features

Wi-Fi+: Your Smart Connectivity Assistant

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.
- **Automatically turn Wi-Fi on and off:** Depending on the Wi-Fi networks you have connected to previously, Wi-Fi will be automatically enabled or disabled 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.

Clean Up Memory for Faster Performance

Does your Phone slow down over time? Do you want to clean up your system storage but are unsure which files to delete? Memory cleanup helps you quickly clear your cache, large and residual files, and unused app files to speed up system performance and keep your Phone in top shape.

When your system performance slows down or remaining storage space is low, Phone Manager will remind you to clean up. You can follow the onscreen prompts to clean up your Phone's memory and free up storage space.

Clean: Scan for and clean up trash files and system cache to quickly free up memory and internal storage space without affecting your Phone usage.

Deep clean: Scan for redundant files including WeChat files, large files, videos, images, app residual files, music files, unnecessary installation packages, unused files, and files that take up a lot of space,

and obtain cleaning suggestions based on the scan results. This helps you free up storage space without accidentally deleting important files.

New Device

Connecting to the Internet

Connect to Wi-Fi networks effortlessly with your device.

Connecting to a Wi-Fi network

- 1 Swipe down from the status bar to open the notification panel.
- 2 Touch and hold  to open the Wi-Fi settings screen.
- 3 Switch on **Wi-Fi**. Your device will list all available Wi-Fi networks at your location.
- 4 Select the Wi-Fi network you want to connect to. If you select an encrypted network, you will also need to enter the Wi-Fi password.

Connecting using mobile data

 Before using mobile data, ensure that you have a data plan with your network provider to avoid incurring excessive data charges.

- 1 Swipe down from the status bar to open the notification panel.
- 2 Touch  to enable mobile data.
 -  When you don't need to access the Internet, disable mobile data to save battery power and reduce data usage.

Getting Help

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Personal Information and Data Security

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

- Put your device in a safe place to prevent unauthorised 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.
- Periodically back up personal information stored on your 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 unauthorised 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 authorised third-party application providers.

- Using unauthorised 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.

Gestures and Operation

Screenshots and Screen Recording

Take Scrolling Screenshots to Capture Entire Pages

Tired of having to take several screenshots to capture long articles or chat records? You can use your Phone's scrolling screenshot feature to take a screenshot that scrolls down to the bottom of the page, capturing all the information on the page in a single screenshot.

Use shortcuts to take scrolling screenshot: Swipe down from the status bar, open the shortcuts panel, then touch  to take a scrolling screenshot. Touch  within three seconds of taking the screenshot and the screen will automatically scroll down and keep taking the screenshot. During the scrolling process, touch the scrolling area to end the screenshot.



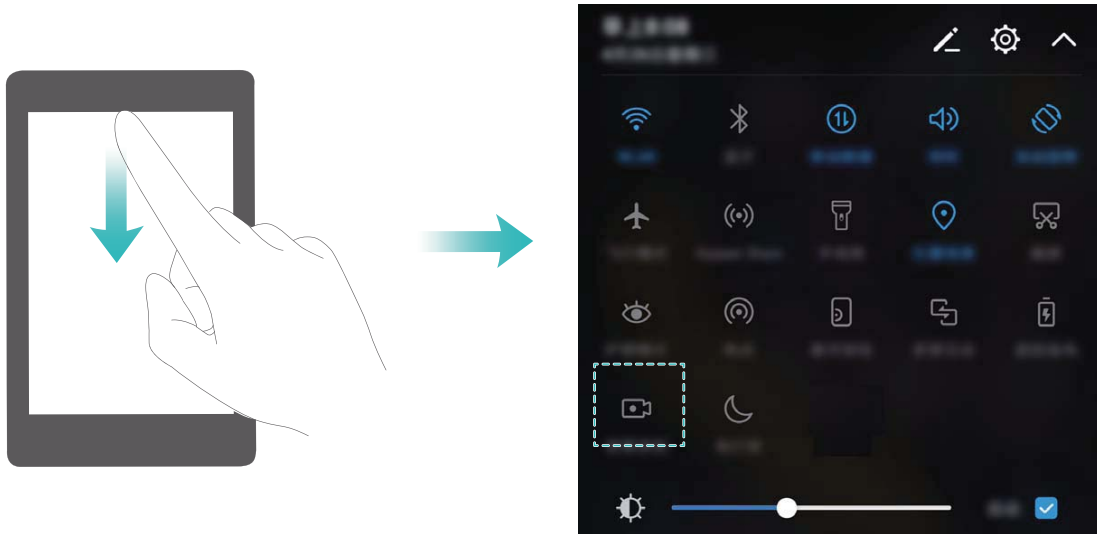
After taking the screenshot, touch  or  to edit or share the screenshot. The screenshot will be saved in **Gallery** by default.

Record Exciting Moments on Your Screen

The screen recording feature comes in handy when you are making tutorial videos or want to record exciting gaming moments on your Phone.

 Screen recording will end if you make or answer a call.

Use shortcut to start recording: Swipe down from the status bar and open the shortcuts panel, then touch  to start recording the screen. To end the recording, touch  in the upper left corner of the screen.



Use combo key to start recording: Simultaneously press the Power button and the Volume up button to begin recording. To end the recording, simultaneously press the Power button and the Volume up button again.



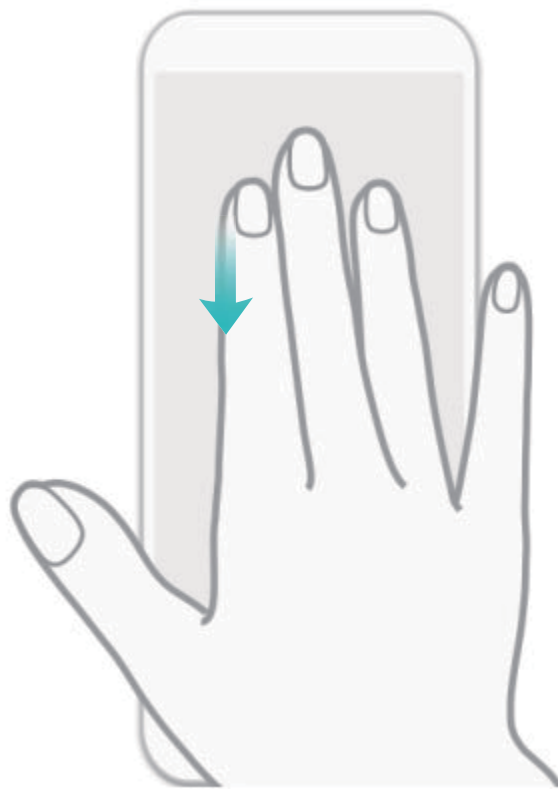
You can view screen recordings in **Gallery**.

Capture a screenshot

Using a combination of buttons: Press the **power and volume down buttons** simultaneously to capture a screenshot.

Using the shortcut icon: Swipe down from the status bar to open the notification panel. Touch  to take a screenshot.

Using Three-finger screenshot: Swipe down from the centre of the screen with three fingers to capture a screenshot.



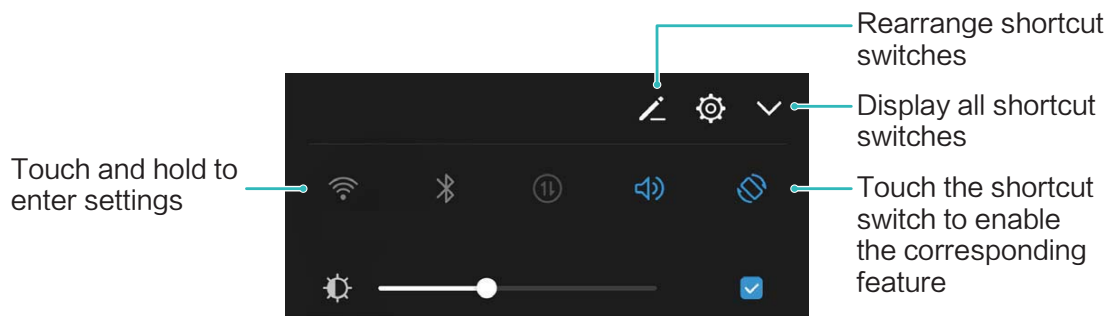
After taking the screenshot, touch  or  to edit or share the screenshot. The screenshots are saved in **Gallery** by default.

Home Screen

Quick Switch

Use Shortcut Switches to Quickly Enable Frequently Used Features

Want to quickly enable or disable mobile data or Wi-Fi? Swipe down from the status bar and open the shortcuts panel, then touch the corresponding shortcut switch to enable or disable a feature. Touch and hold a shortcut switch icon to enter the feature's settings page.



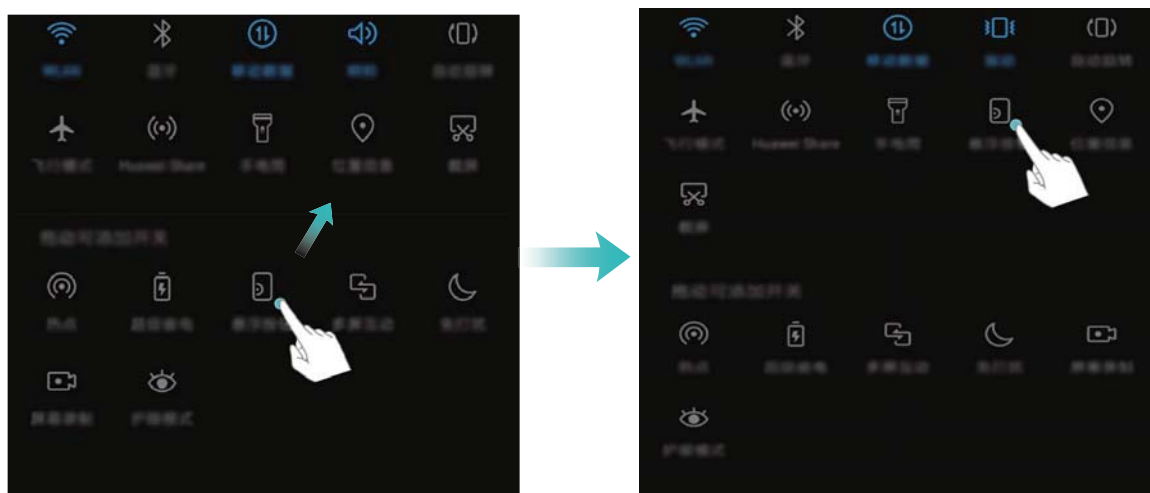
Adjust the Position of Shortcut Switches to Your Liking

Adjust the positions of the shortcut switches to put the ones you use regularly at the top.

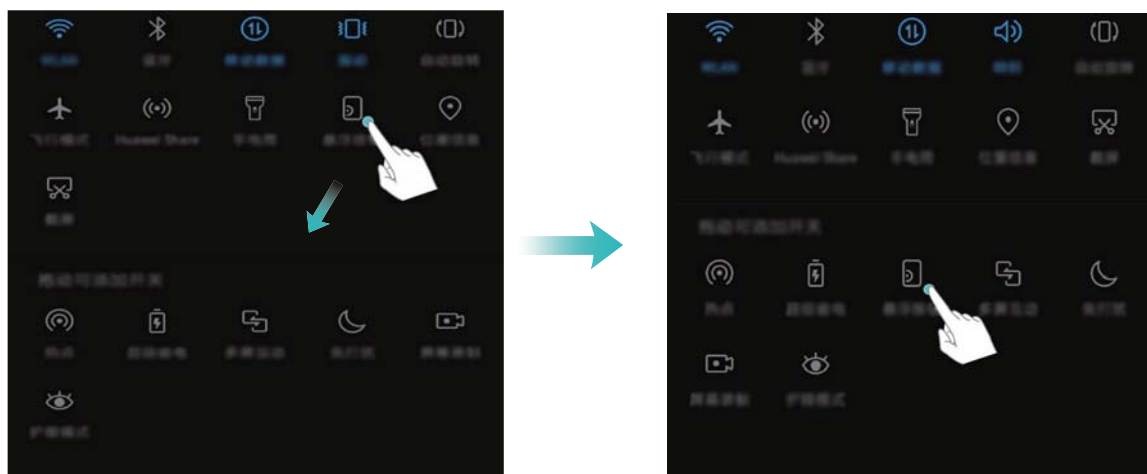
Swipe down from the status bar, open the shortcuts panel, and touch . From the shortcuts panel, you can:

Rearrange shortcut switches: Touch and hold a shortcut switch and then drag the icon to a position of your choice.

Add a shortcut switch: Drag a shortcut switch from the hidden area of the panel to the displayed area, then touch **BACK**.



Delete shortcut switches: Drag a shortcut switch from the displayed area of the panel to the hidden area, then touch **BACK**.



Notification and Status Bar

Understanding Status Bar Icons

Use the status bar to view connection information, check the remaining battery level, and check for new notifications.

Status icons: Status icons tell you about your Phone's status, including network connections, signal strength, battery level, and time.

 Status icons may vary according to your region or carrier.

	Signal strength		No signal
4G	Connected over 4G	3G	Connected over 3G
2G	Connected over 2G	H	Connected over HSPA+
H⁺	Connected over HSPA	4G	Connected over LTE
	VoLTE enabled		No SIM card found
R	Roaming		Airplane mode enabled
	Bluetooth enabled		Connected over Wi-Fi
	Wi-Fi network available		Receiving location data from GPS
	Vibration mode enabled		Silent mode enabled

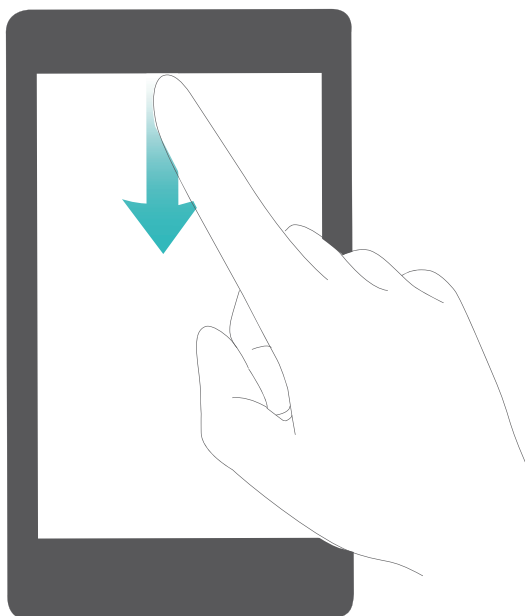
	Alarms activated		Charging
	Battery full		Battery low
Notification icons: Notification icons are displayed on the left-hand side of the status bar when you receive a new message, notification, or reminder.			
	Missed calls		New emails
	Downloading data		New voicemail
	Upcoming events		Uploading data
	Synchronizing data		Phone memory full
	Log in or synchronization error		Synchronization failed
	More notifications		

Open the Notification Panel to Get Important Information

Want to ensure that you do not miss out on any important notifications? From your Phone's status bar, you can view real time notification information and your device's operating status.

When there is a notification reminder, you can turn on the screen and swipe down from the status bar to view the notification. You can access notification and status bar settings in the following ways:

- **Access notification and status bar settings when the screen is locked:** Turn on the screen and swipe down from the status bar, touch , enter your password, and then go to **Apps & notifications > Notifications & status bar > Notification method**.

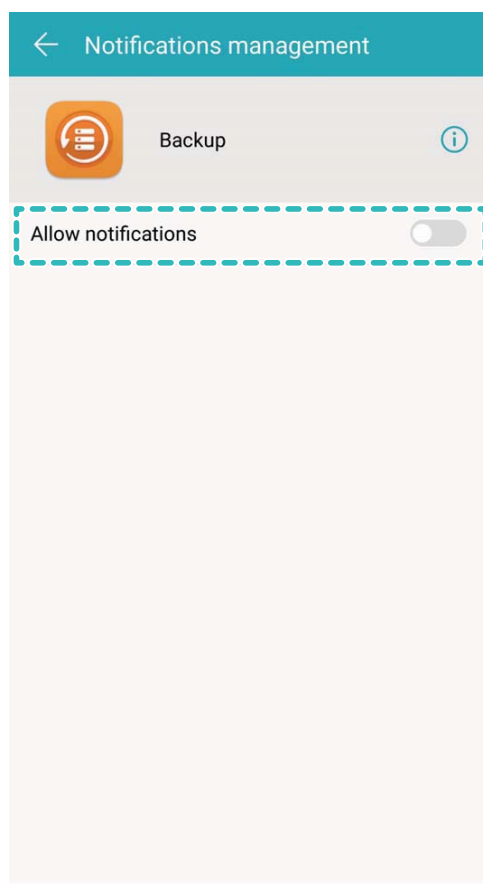


- **Access notification and status bar settings when the screen is unlocked:** Go to  **Settings** and then go to **Apps & notifications > Notifications & status bar > Notification method**.

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.

Go to  **Settings**, then go to **Apps & notifications > Notifications management**. From here, you can disable all app notifications. You can also select a particular app and disable its notifications by configuring the app's settings.



Customise Notifications to Your Liking

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

Go to  **Settings**, then go to **Apps & notifications > Notifications & status bar**. You can:

- **Enable notifications turn on screen:** Enable **Notifications turn on screen**. When your Phone screen is off, it will turn on when a notification is received.
- **Set notification light to pulse:** Enable **Pulse notification light** and the notification light will flicker when you receive new notifications.

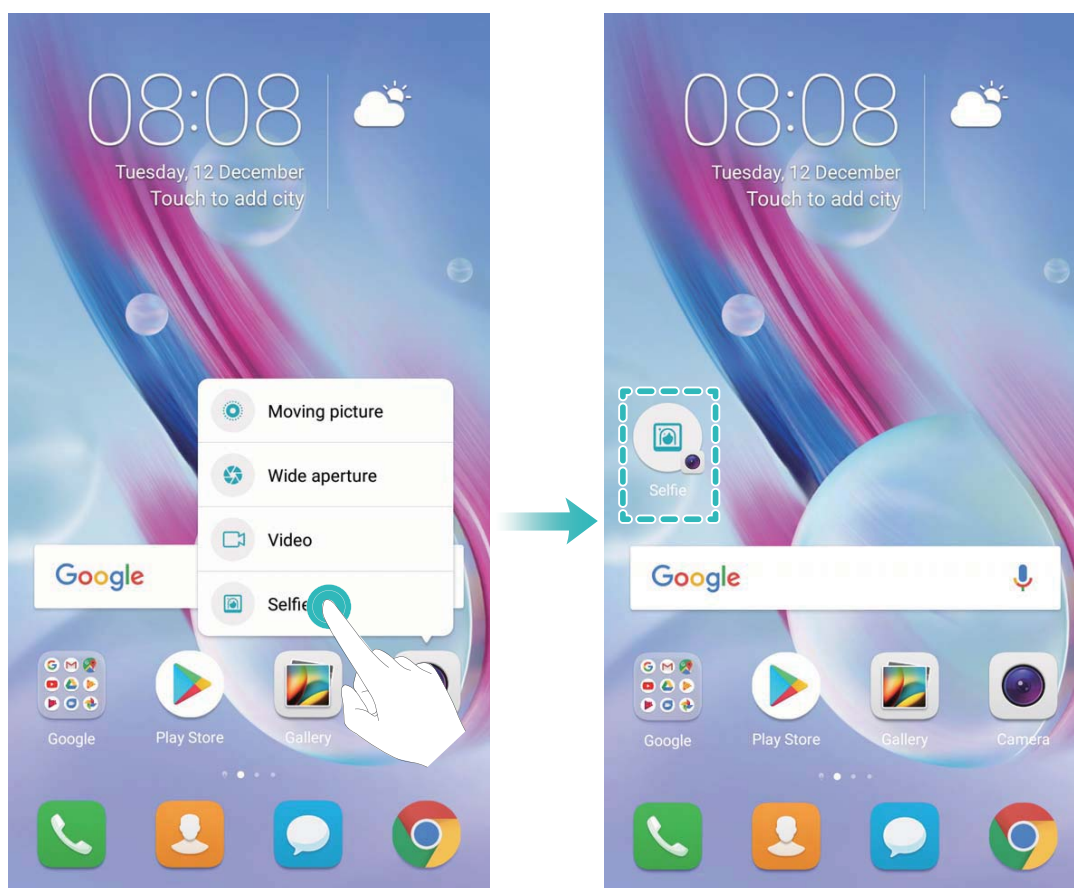
- **Display more information in the status bar:** Depending on your preferences, you can enable **Display carrier name** and **Display network speed**. You can also set the **Notification method** and choose how the **Battery percentage** is displayed.

Shortcuts

Use Shortcuts to Access Frequently Used Features

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.

- i** If you touch and hold an app icon and a shortcut is not 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.

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 camera.

Consolidated Settings: Making Customisation Simpler

Having a hard time finding the settings you need? Do you find manually changing your settings too frustrating? EMUI 8.0 has made things simpler by grouping related settings together. A clustered display makes the main settings screen clearer, and voice activation of settings has been added.

Update 1: Simplification and consolidation of settings

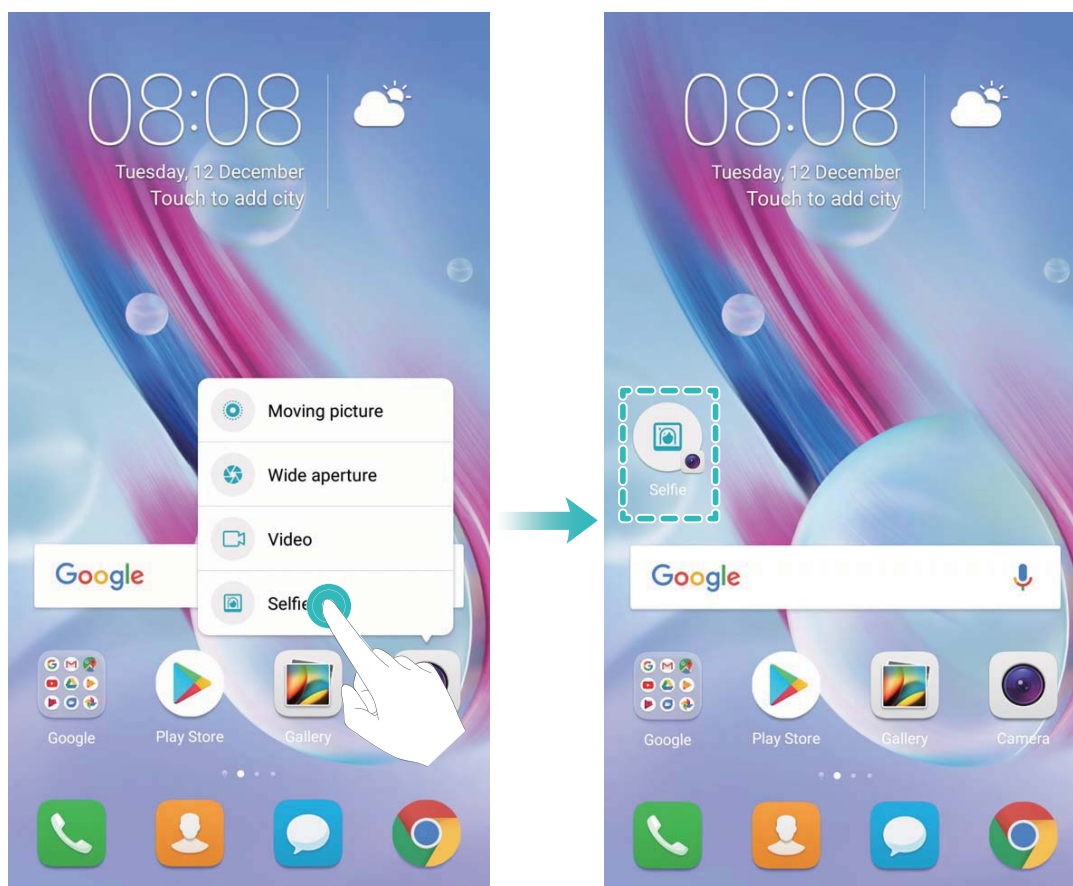
EMUI 8.0's settings menu is responsive to your usage habits, and will change the settings order and clustering accordingly. This helps keep everything simple and clear.

App Shortcuts: Making App Features Start Faster

Do you love to take selfies, and want to be able to take them in just one step? EMUI 8.0 offers app feature shortcuts for you to use with your most frequently used features, letting you add them to the home screen and open them in a single step.

Using shortcuts to access frequently used features: EMUI 8.0 has added shortcuts to access frequently used features. On the home screen, touch and hold the icon of a frequently used app, and select the desired feature in the pop-up menu to quickly launch it.

How to add an App feature shortcut to the home screen: EMUI 8.0 supports adding app feature shortcuts to the home screen. Touch and hold any app icon on your home screen, touch and hold the desired feature in the pop-up menu, then drag it to your home screen to create a feature shortcut.



Screen Lock and Unlock

Set up Magazine Unlock

Magazine unlock displays a fresh image on your lock screen each time you unlock your device, so that you never get bored of the same old background.

To display the Magazine Unlock shortcut panel, swipe up from the bottom of the lock screen.

Subscribe to covers: Touch  and add the magazine types you like to the subscription list.

Add your own images as covers: Touch  . Touch  and select the images you want to add, and then touch .

Set a Lock Screen Password to Protect Your Privacy

Personal photos, contact information, and banking apps, your Phone stores a lot of sensitive information. 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 unauthorised user.

Set a lock screen password: Open  **Settings**, go to **Security & privacy > Screen lock & passwords**, 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 device is quick and simple. For better security, use a long sequence of random numbers as your PIN. Go to **Password > PIN**, follow the prompts to set up a PIN, then touch **OK**.
- **Set a pattern:** Unlock your device by drawing a preset pattern on the screen. For better security, use a pattern that includes overlapping line segments. Go to **Password > 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. Please memorise the password so that you don't get locked out of your device if you forget it. Go to **Password > Password**, follow the prompts to set up a password, then touch **OK**.

- **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 **Enrol** in the dialog box that pops up and follow the onscreen prompts to enrol your fingerprints.
- **For security reasons, please do not disable the lock screen password:** A lock screen password prevents unauthorised access to your device. For the security of your device, do not select **None** 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.

Lock the Screen to Quickly Secure Your Phone

If you don't use your Phone for a set period of time, the screen will turn off and lock. As long as the screen stays on, you can use your Phone without needing to unlock the screen. Lock your screen when you are not using your Phone to protect your privacy and prevent mistaken inputs.

- Set a lock screen password to help protect your privacy. You can lock your device in the following ways:

Lock the screen instantly with the Power button: Press the Power button to lock the screen at any time.

Lock the screen with one-touch screen lock: Pinch two fingers together on the home screen to enter the editing screen. Touch **Widgets > Screen Lock** and add the **Screen Lock** widget to your home screen. This helps reduce wear and tear on your power button. After leaving the home screen editing mode, touch the **Screen Lock** widget to instantly lock your screen. To lock your screen this way, first switch to the home screen page where the **Screen Lock** widget is located.

You can also customise the lock screen style according to your preferences:

Change the lock screen style: Your device uses Magazine unlock by default. Open  **Settings**. Go to **Security & privacy > Screen lock & passwords > Screen lock style** and select the lock screen style you that suits you.

- **Set a custom message as your lock screen signature:** Touch **Lock screen signature** to display a custom message on the lock screen each time the screen lights up.

Go Back to Basics with Simple Mode

Does your home screen look cluttered with app icons and small text? Simple mode displays larger icons and fonts on the home screen, adopting a more concise layout that allows you to navigate more easily.

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

In Simple mode, you can:

- **Edit home screen icons:** Touch and hold any of the icons to enter home screen editing mode, then you can add or remove app icons accordingly.
- **Exit Simple mode:** To exit **Simple mode**, touch **Standard mode**.



Home Screen Management

Manage Home Screen Icons

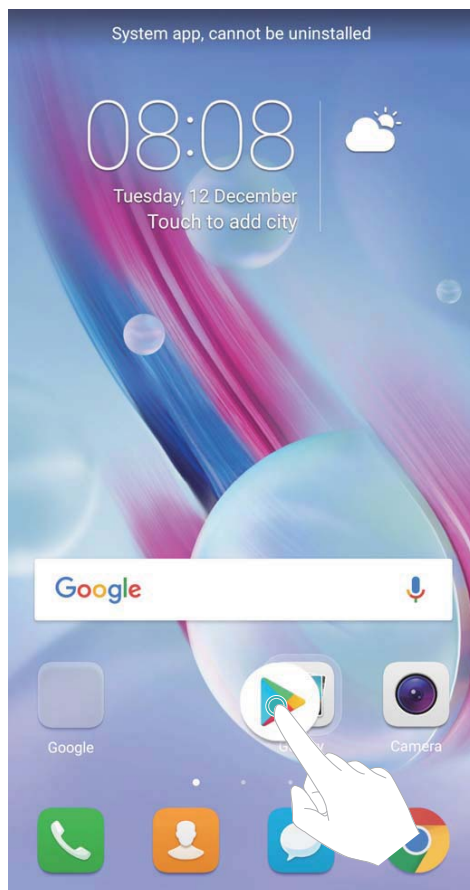
Is your home screen cluttered with app icons? You can move or delete icons from the home screen or sort and move them to folders for more convenient use.

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

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

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

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



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

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

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

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

Manage Your Home Screen

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

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

- **Add a new home screen page:** Touch $+$ at the left or right side of the screen to add a new home screen page.

- **Delete an empty home screen page:** Touch $\times$ on a blank screen to delete the page.

 Home screen pages with app icons or widgets on them cannot be deleted.

- **Modify home screen page order:** Touch and hold the home screen page you want to shift, then drag it to the position of your choice.

- **Set a default home screen page:** Touch  in the upper part of the home screen to set the selected home screen page as your default home screen page.

Set Your Home Screen Wallpaper

Want to set a picture you like as your home screen wallpaper? Personalise your wallpaper to make your home screen stand out.

Go to  **Settings**, then go to **Display > Wallpaper**. You can:

- **Set a picture as your home screen wallpaper:** Touch **Set wallpaper**. From **More** or **Gallery**, select a picture that you like and follow the onscreen instructions to select **Lock screen**, **Home screen** or **Both**.
- **Randomly switch wallpaper:** Enable **Randomly change home screen wallpaper** and set the **Interval** and **Album to display**.

Set a picture in your Gallery as your wallpaper: Have a great picture you want to set as your wallpaper? Open  **Gallery**, open the picture that you like and then go to  > **Set as > Wallpaper** to set the picture as your home screen wallpaper.

Manage Your Home Screen Widgets

Want to quickly add widgets such as one-touch lock screen, memo browser, or diary to your home screen? You can add, move or delete home screen widgets to tidy up your home screen and make it easier to use.

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



- i** Check that there is enough empty space on the home screen to put the widget. If there is not enough space, add another home 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. Drag the widget to **Remove** at the top of the screen.

Move widgets: Touch and hold a widget on the main screen until your Phone vibrates, then drag the widget to any position on the main screen.

Use App Drawer to Store Apps

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

Open  **Settings**, go to **Display > 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 the app drawer to the home screen:** After you enable the 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 and drag it to any position on the home screen.

Contacts

Managing Business Cards

Business Card Management: Add and Share Business Cards with Ease

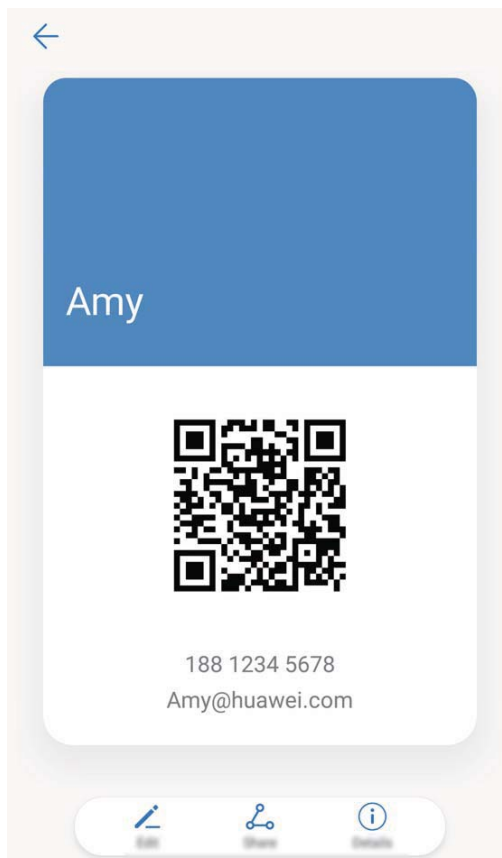
Find it time-consuming to input the content of business cards you receive into your contacts? Is sharing mobile contacts with your friends a hassle? Business card manager gives you an easy way to add and share business cards.

Business card manager supports the following features:

- **Scan a QR code to add a contact:** Scan the QR code on a business card to conveniently and quickly save the information to your contacts.
- **Create and share your own business card:** Create a personal business card in your contacts and your device will automatically generate a QR code for easy sharing with other people.
- **Share contacts:** Select the contact you want to share and touch the QR code at the top of the contact details screen for quick and easy sharing.

Share Contacts Using Electronic Business Cards

Share your business card: Open  **Contacts** and touch **Me** to set your profile picture, enter your name, work address, phone number and other information, then touch . Your device will automatically create your QR code business card. To share your business card, use the QR code or touch , select a sharing method, then follow the onscreen instructions.



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

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

Managing Contacts

Import and Export Contacts

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

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

- **Import contacts:** Select **Import from storage**, **Import from another device** or **Import from SIM** and follow the instructions.
- **Export contacts:** Select **Export to storage** 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.

You can also import or export contacts using the **Backup** feature. Backup records are saved in the **Huawei** folder of **Files** by default.

Manage Your Contacts

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

Merge duplicate contacts: If there are duplicates in your contacts list, you can use the **Merge duplicate contacts** function to merge duplicate contacts. From the contacts list, Go to  > **Organise contacts** > **Merge duplicate contacts**, select the contacts you want to merge, and then touch .

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

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

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

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

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

Manage Contact Groups

Want to send a message to a group of colleagues or host a get-together? Smart groups automatically groups your contacts by company, city, and most recent contact time, so you can quickly send a group email or message.

Create a contact group: From the groups list, touch , enter the group name (such as Family or Friends), and then touch **OK**. Follow the onscreen instructions to add contacts, and then touch .

Send a message to smart group contacts: From the groups list, from the **Smart groups** section, open a group and touch  to send a message or  to send an email.

Edit a group: From the groups list, select the group you want to edit and touch  to add a contact, or touch  to **Remove members**, **Group ringtone**, **Delete group** or **Rename**.

Delete a group: From the groups list, touch and hold a group, and then touch **Delete**.

Add Contacts to the Blacklist

You can add a contact number to the blacklist to avoid receiving harassing or spam calls from them.

Open  **Contacts**, touch and hold the contact you want to add to the blacklist, and then touch **Add to blacklist**. Your device will block all calls and messages from contacts in the blacklist.

View blacklisted contacts: Open  **Phone Manager**, go to **Blocked** > , and then touch **Numbers blacklist** to view the blacklist.

Remove a contact from the blacklist: Open  **Contacts**, touch and hold the contact you want to remove from the blacklist, and then touch **Remove from blacklist**.

Erase Call and Message Records

Use Erase traces to erase call and message records for a contact to protect your privacy.

Open  **Contacts**, select a contact, and go to  > **Erase trace** > **Erase**. All of your call and message records for that contact will be erased.

Merging Third-Party App Contacts

Integrated Social Networks: Bring People Together

Want to expand your social network? Want to sync information from a social media account to your contacts? You can log in to a social media account (such as LinkedIn) and sync your contacts' information (including company, title, and email) to your local contacts and enrich your social network.

Associate Contact Information with Your Social Account

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

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

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

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

View an Sender's Job Description

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

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

Dialling

Basic Calling Functions

Make Calls

On the dialler screen, enter part of the phone number or the first letter or pinyin initials of the contact's name. Your Phone will automatically search for the relevant contacts.

Open  **Dialler**. From the dialler screen, enter the phone number or the first letter or pinyin initials of the contact's name (for example, enter hwkf for Huawei customer service). Your device will automatically search Contacts, call logs, and the yellow pages. Touch the contact you want to call in the list. If you have a dual-SIM device, touch  or  to make the call. You can check your contact's status on your screen (such as ringing or call forwarding enabled). Touch  to hang up.

Press the power button to hang up: Accidentally dialled the wrong number and hid the calling screen, and want to hang up quickly? You can set **Power button ends call**. On the **Dialler** screen, go to  > **Settings**, and enable **Power button ends call** to quickly hang up calls.

Make Emergency Calls

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

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

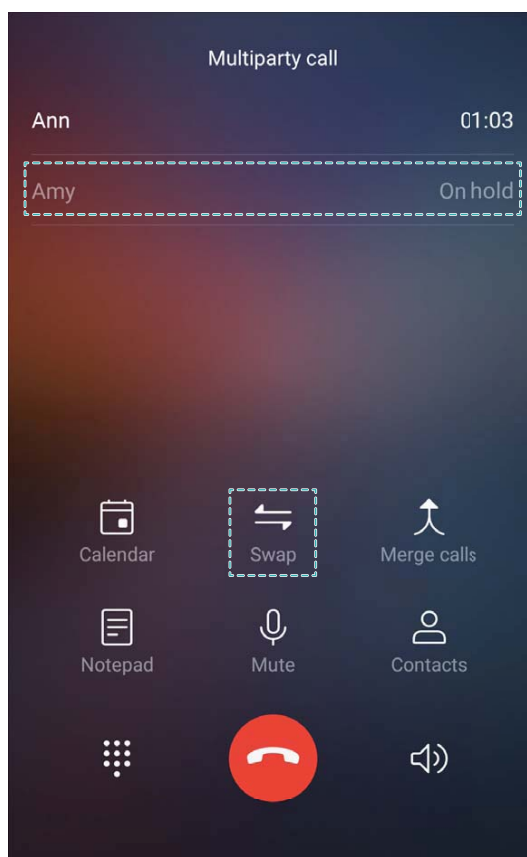
Open  **Dialler** or touch **Emergency call** on the lock screen, enter the local emergency number on the dialler, and then touch . If your location has strong mobile reception and your phone is connected to the Internet, your location will be obtained and displayed on your screen for your reference.

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  **Dialler**, go to  > **Settings** > **Additional settings**, 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  **Dialler**, 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.

Delete Call Logs

You can delete call logs that you no longer need.

Open  **Dialler** and touch  to hide the dialpad. You can now perform one of the following:

- **Delete a single record:** Touch and hold an entry, then touch **Delete entry**.
- **Delete multiple records:** Touch , select the entries you want to delete or touch **Select all**, then touch .

Enable Voicemail

Worry about missing important calls when your phone is turned off? Voicemail records real-time messages from callers so you'll never have to worry about missing an important call.

-  Voicemail requires carrier support. Please check that you have enabled this service. Contact your carrier to learn more about your voicemail number, service details, and fee information.

Enable voicemail: Open  **Dialler**, go to  > **Settings** touch **Additional settings** (for dual-SIM phones, in the **SIM 1** or **SIM 2** section, touch **Additional settings**), then go to **Voicemail** > **Voicemail number** and enter the voicemail number provided by your carrier.

Check voicemail messages: On the dialer, touch and hold **1** to call the voicemail and listen to messages.

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.

-  This feature requires carrier support. Please ensure that roaming or international roaming has been enabled for your SIM card. For more information, contact your carrier.

Open  **Dialler** or  **Contacts** to make a call.

Block Nuisance Calls: Get the Peace and Quiet You Deserve

Fed up of nuisance calls and telephone scams? Try using **Blocked**.

Configure interception rules: Open  **Dialler**, go to  > **Blocked**, and then touch  . Configure the interception rules and blacklist or whitelist according to your preferences.

Enable VoLTE to Enjoy HD Calls

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

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

Use VoWi-Fi for a New Calling Experience

You can use **VoWi-Fi** to make voice and video calls in any location that has a Wi-Fi network, even when there is no mobile phone network reception.

-  This feature must be supported by your carrier. Contact your carrier for more information, including fees and charges.

Open  **Dialler**, go to  > **Settings** > **Wi-Fi calling**, enable **Wi-Fi calling**. Touch **Mode** and follow the onscreen instructions to set the preferred network.

Message

Basic Messaging Functions

Send Messages

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

Open  **Messaging**. From the list of messages, go to    and select contacts or groups.

Enter your message content, touch  to add other types of content, and touch  to send the message.

Save a draft message: Touch  to save a message as a draft.

Manage Messages

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

Open  **Messaging**. From the list of messages, touch a contact or phone number to view your conversations with them. Open an unread message and the system will automatically identify and highlight the phone number, website address, email, time, and other information within the message. Touch the relevant information to initiate an operation.

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

Add a message to favourites: Worried about accidentally deleting an important message? Touch and hold a message and follow the onscreen prompts to add the message to favourites or lock it.

Forward a message: Want to share a message with your friends? Touch and hold a message and follow the onscreen prompts to forward or share it.

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

Quickly reply to a message: Want to quickly reply to a message you received? New messages will be displayed in the notification panel. Touch to quickly reply.

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

Pin to top: Want to pin an important message to the top of the list? From the list of messages, touch and hold a message to select it, then touch . Pinned messages will be displayed below

notification messages. To pin unread messages to the top, go to  > **Settings** > **Pin unread messages**.

Block Spam Messages

Tired of receiving spam messages? Enable message blocking to say goodbye to spam messages!

Open  **Messaging**. On the list of messages, go to  > **Blocked**, touch  and configure the interception rules, whitelist, and blacklist.

Attach a Signature to a Text Message

You can create a signature to add to the end of every text message to give your messages a more formal touch.

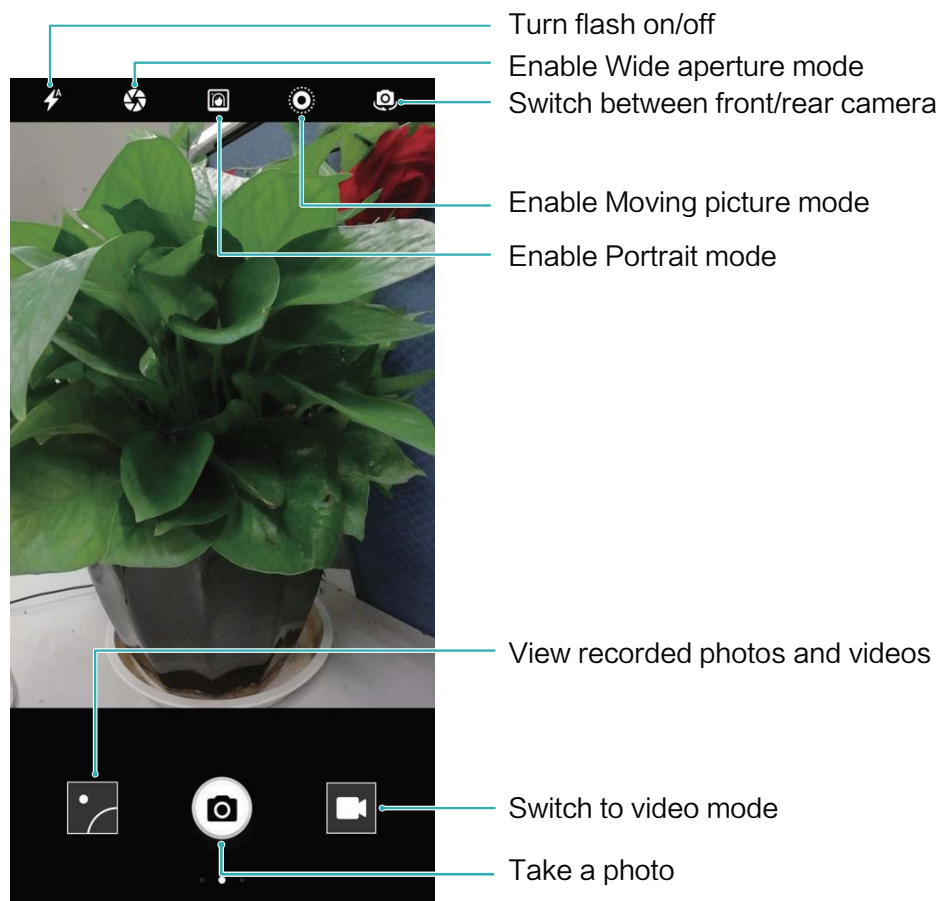
Open Messaging, go to  > **Settings** > **Advanced** > **Signature**, and enable **Attach signature**. Touch **Edit signature**, enter your signature, and touch **OK**.

Camera

Basic Camera Functions

Use Your Camera's Basic Functions

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



Basic photo mode: Open  **Camera** and in the viewfinder, touch  to take a picture. You can also configure the Volume down button to work as a shutter button for your camera.

Select a photo mode: From the viewfinder, swipe right to enter the photo mode screen. Here you can change the photo mode according to your needs.

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

Adjust your camera's exposure: Your camera will adjust its exposure automatically depending on the ambient light level. Increasing the exposure will make pictures appear brighter whereas decreasing

the exposure will make pictures appear darker. You can adjust the exposure manually from the viewfinder by touching the screen and dragging the ☀ icon up or down.

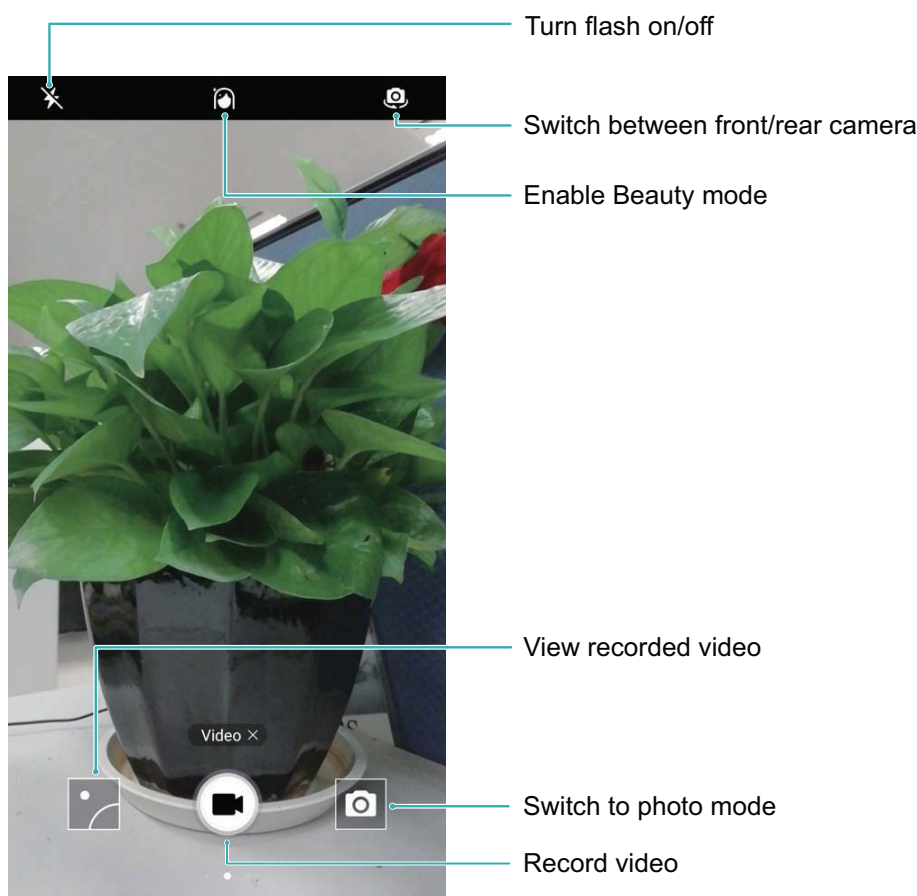
Enable or disable flash: Flash is used to provide extra lighting for taking photos in low light conditions. From the viewfinder, touch ⚡ to select one of the following flash modes:

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

Enable geolocation: Records your geographic location when you take a picture to allow you to search through your pictures by location. From the viewfinder, swipe left to enter the settings menu and enable **GPS tag**.

Use Camera to Record Videos

Besides taking pictures, you can also use the camera to capture high resolution videos with sound.



Record a video: Open  **Camera** and touch  to switch to video mode. Touch  to start recording a video.

Take a picture while recording a video: You can touch  when recording a video to take a picture.

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

Turn on flash: When recording a video in low light conditions, you can touch  and select  to turn on the flash.

Adjust Camera Settings

In the settings page of Camera you can adjust a variety of camera settings, modes, and specifications to suit your usage needs.

Touch viewfinder to shoot: Open  **Camera**, swipe left to open **Settings** and enable **Touch to capture**. Now when you touch an object in the viewfinder, the camera will focus and take a picture automatically.

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

Lock focus distance: From **Settings**, touch **Touch & hold shutter button** and select **Lock focal length**. Now when you touch and hold the shutter button, the camera will no longer auto focus.

Use the volume button to take pictures, focus a shot, or zoom in or out: From **Settings**, touch **Volume button function** and select **Shutter**, **Zoom**, or **Focus** mode according to your usage needs.

Use an Assistive Grid to Help You Compose Your Photos

If you don't know where to place the subject in your photos, try using the assistive grid feature to improve your composition.

To select an assistive grid, open  **Camera** and swipe left on the viewfinder to open the **Settings** screen. Touch **Assistive grid** and select a grid type.

The rule of thirds: Select the **Grid** or **Phi grid** grid. The four points where grid lines intersect are the focal points of the photo. Position the subject under one of these points to create an interesting composition.



The golden spiral: Select the **Fibonacci spiral (left)** or **Fibonacci spiral (right)** grid. The centre of the spiral is the focal point of the photo. Position the subject here to lead the viewer around the image in a natural flow.



Wide Aperture

Wide Aperture Mode: Emphasize Your Subject

Want to showcase a peony in a sea of flowers, highlight your subject in a crowd, or increase the brightness in a low light environment? Enable Wide aperture mode to blur the background and highlight your subject to take crisp photos even in low light.

- **Quick focus to capture fleeting moments:** Wide aperture mode can help you quickly capture a fleeting moment during your travels while avoiding any possible blurring caused by moving the lens or focusing too slowly.
- **Blur the background to highlight the subject:** Unable to pick out the focus in a crowd? Enable Wide aperture mode to blur the background, so you can stand out with ease even on a crowded street.
- **Capture moments with ease even at night:** Are your photos blurry when taken at night or in low light? Enable Wide aperture mode to increase the amount of light let in by your lens and customize your photo brightness so you can capture the best lit moment even in low light.



Wide Aperture Mode: Make Your Subject Stand Out

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: Open  **Camera**. Touch the  icon at the top of the screen to enable Wide aperture mode. Touch the  icon again to exit Wide aperture mode. If the icon isn't visible, swipe right on the screen and select **Photo**. 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 (6 ft) away from the camera.
- Touch  and swipe left or right on the slider to adjust the aperture level. The lower the aperture value, the more blurred the background will appear.

Edit a wide aperture photo: Open **Gallery** and touch a photo that is marked with the  icon. Touch  to change the focal point and aperture value. Touch  to save the photo.

Panorama

Use Panorama to Take Panoramic Selfies

Want to fit more friends or scenery in a selfie? Use Panorama to take selfies with a wider field of view.

- 1 To take a panoramic selfie, open  **Camera** and touch  to switch to the front camera.
- 2 Swipe right on the screen and touch **Panorama**.
- 3 Hold your Phone steady and touch  to take the first picture.
- 4 Follow the onscreen instructions and turn your Phone in one direction until the blue frame overlaps with the square screen frame. The camera will automatically take another picture.
- 5 Follow the onscreen instructions and turn your Phone in the opposite direction until the blue frame overlaps with the square screen frame. The camera will automatically take a final picture.
- 6 Once complete, the camera will automatically combine the three pictures into a wide-angle selfie.

Panorama: Capture the World in Wide-angle

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 colour.

Open  **Camera**. Swipe right on the screen, and then touch **Panorama**. In Panorama mode, touch  at the top 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 centre line. Touch  when you are finished. The camera will automatically stitch the photos together to create a panorama.

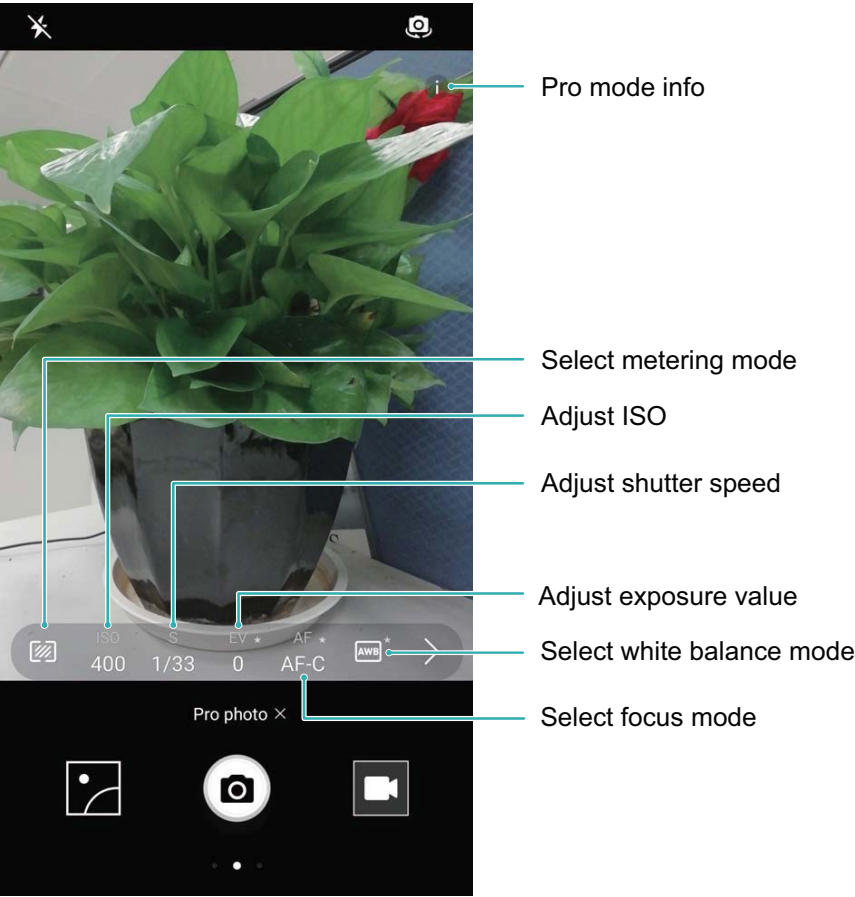


Pro Mode

Pro Camera: Use Light to Tell Your Story

Pro camera lets you adjust exposure, shutter speed, and a range of other settings, putting you in charge of your camera.

Pro camera is a pre-installed camera mode in your Phone. In Pro camera mode, you can adjust various camera parameters to produce photos and videos with results comparable to professional cameras.



Use Pro Camera Mode to Take Landscape Shots

Use Pro camera mode to customise camera settings and capture landscape shots that stand out.

Open **Camera** and swipe right, touch **Pro photo** to enable Pro camera mode.

Metering mode: In Pro camera mode, touch . Select the appropriate metering mode for the scene.

Metering mode	Scene
Matrix	Wide landscapes (coastal views, mountains)
Centre	Photos with a central subject that is separated from the background.

Spot

Photos with subjects that you want to isolate, such as flowers or trees.

Brightness settings

- **ISO:** In Pro camera mode, touch  and then slide the ISO slider horizontally to change the value.
 -  An ISO of 400 or less is recommended to prevent excessive noise. For daytime shooting, set the ISO to 100–200; for night scenes, set the ISO to around 400.
- **Shutter speed:** In Pro camera mode, touch  and drag the slider until the desired value is highlighted.
 -  For static scenes (such as mountains), a shutter speed between 1/80 and 1/125 is recommended; for moving scenes (such as waves), it is recommended that you mount your phone on a tripod and set a slower shutter speed (less than one second).
- **Exposure compensation:** In Pro camera mode, touch  and drag the EV slider until your preferred value is highlighted.

White balance: In Pro camera mode, touch  and drag the AWB slider until your preferred value is highlighted.

-  If shooting in direct sunlight, select ; if conditions are dark or overcast, select .
- Select  to change the colour temperature. To compose a photo with warmer tones or a vintage look, set a higher K value; for colder light or a sense of stillness, set a lower K value.

Focus: In Pro camera mode, touch  and drag the AF slider until your preferred value is highlighted.

Focus mode	Scene
AF-S	Static scenes (such as mountains)
AF-C	Moving scenes (such as waves)
MF	Isolated subjects (such as flowers)

Keep your device level: In Pro camera mode, swipe left on the viewfinder and enable **Horizontal level**. This feature displays a spirit level in the viewfinder. Ensure that the dotted line lines up with the solid line. This indicates that your device is level.

Save RAW files: In Pro camera mode, swipe left on the viewfinder and enable **RAW format**. Your photos will now be saved in both RAW and JPEG format.

-  In Pro camera mode, when one setting is changed, other settings may also change automatically.
- The above settings are guidelines only. For optimal results, adjust camera settings according to the actual shooting conditions.



Use Pro camera mode to take portrait shots

Want to give your portrait shots more personality? Use Pro camera mode to customise camera settings and fashion your own unique portrait style.

Open  **Camera** and swipe right on the viewfinder to enable Pro camera mode.

Metering mode: For portrait shots, select  or  and position the subject in the centre of the photo.

Brightness settings

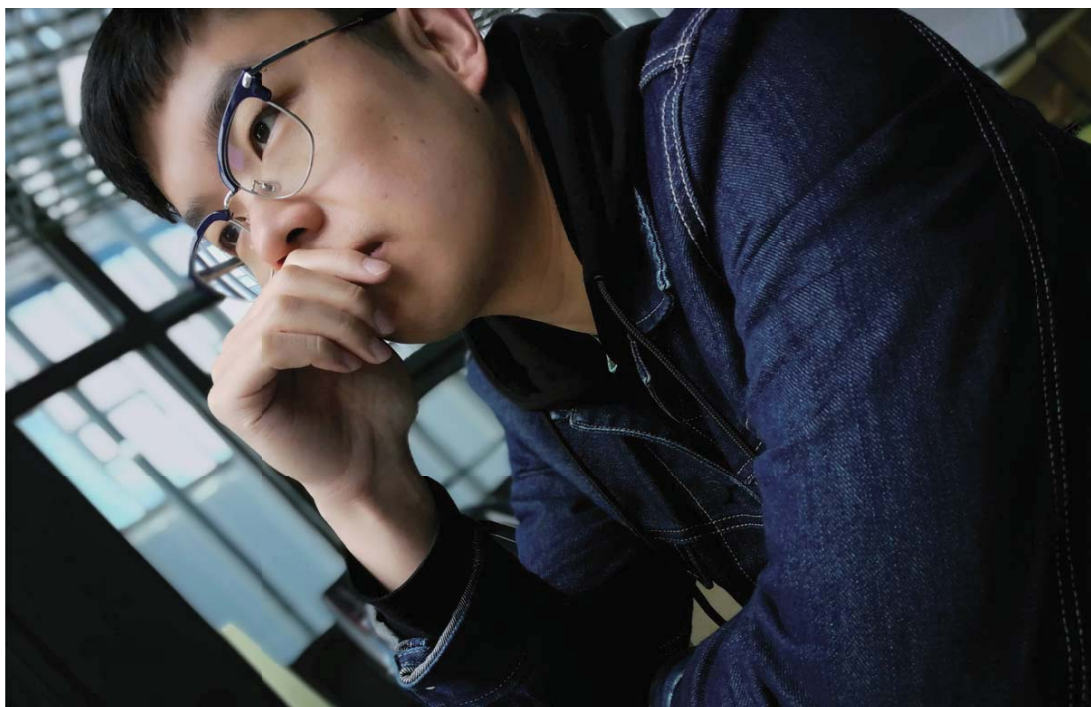
- **ISO:** For portrait shots, a low ISO setting is recommended to prevent excessive noise. In mixed light conditions, you may need to experiment to find the right ISO setting.

Scene	Recommended ISO value
Outdoors	100–200
Indoors	400
Night scenes	400–800

- **Shutter speed:** Use slower shutter speeds for dark scenes and higher shutter speeds for well-illuminated scenes. For static subjects, use a shutter speed of 1/80 to 1/125. For moving subjects, use a shutter speed of 1/125 or higher.
- **Exposure compensation:** If the subject and background are too dark, increase the EV value; if they are too bright, lower the EV value.

Focus: For portrait shots, it is recommended that you select Manual Focus (MF) mode. Touch the part of the photo that you want to isolate with the focus (such as a face) and then capture your shot.

- In Pro camera mode, when one setting is changed, other settings may also change automatically.
- The above settings are guidelines only. For optimal results, adjust camera settings according to the actual shooting conditions.



Beautification

Use Portrait Mode to Capture Stunning Portraits

Want to always look your best in your selfies? Portrait mode lets you configure different beautification settings and create an information database for custom beautification.

- If you take a selfie at night or in low light conditions, your Phone will detect the low ambient light and automatically enable Night mode to improve the quality of selfies. This mode does not have a switch and is automatically enabled when your device detects low ambient light. Your device will prompt you when it enables this mode.
- **Portrait mode:** Enable Portrait mode to automatically apply beautification effects to everyone in the frame.

- **Perfect selfie:** Enable Perfect selfie and your Phone will create a custom beauty plan for you. The higher the beautification level, the more pronounced the effects.

Use Beauty Mode to Take Stunning Portraits

Want to make your selfies or group shots even more beautiful? Beauty mode provides you with customised options to make every photo beautiful and forever-lasting.

Enable Beauty mode and make your photos shine: Open  **Camera**, enable , and then touch the  icon in the viewfinder. Drag the sliders left and right to adjust beautification settings. A higher **Beauty level** will make the beautification effects more distinct. After making the adjustments, touch  to take photos.

Enable Perfect selfie mode to customise beautification settings: Open  **Camera**, enable , and then swipe left to enter the Camera settings screen. Touch **Perfect selfie** and enable **Perfect selfie**, then follow the onscreen prompts to take photos of yourself looking to the front, sides, and downwards, and then set the beauty parameters. Larger parameter values produce more pronounced slimming and beautification effects. After confirming your settings, touch  to save your personalised beauty information.

- **Re-entering personal information:** In Camera settings screen, go to **Perfect selfie > Edit personal info**, then follow the onscreen prompts to re-take photos of yourself looking to the front, sides, and downwards. This will reset the beauty parameters.
- **Adjusting beauty parameters:** In Camera settings screen, go to **Perfect selfie > Set beauty effects** to adjust parameters such as skin smoothness and tone.

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:

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



Tail Light Trails: 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.
- Position your device on a tripod so that it does not move during the exposure.

Open  **Camera**. Swipe right on the screen and then go to **Light painting > Tail light 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.

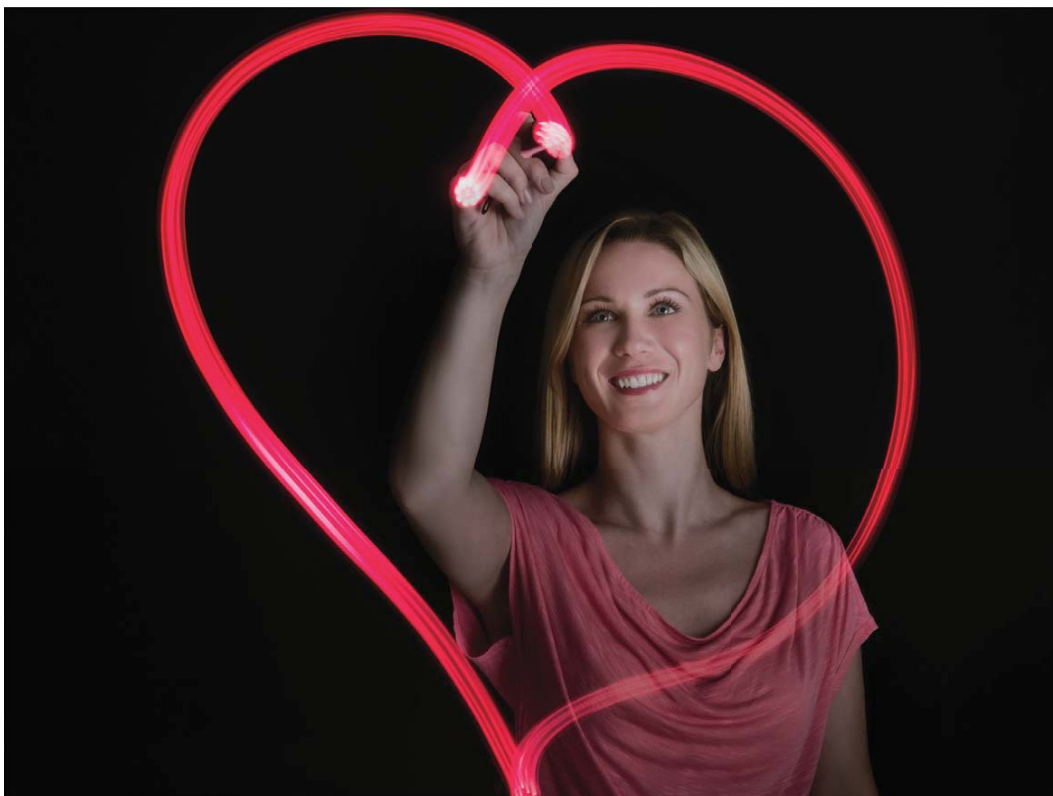


Light Graffiti: Paint a Photo with Light

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

- i • 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 colour, such as a small torch or glow stick.
- Position your device on a tripod so that it does not move during the exposure.

Open  **Camera**. Swipe right on the screen and then go to **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.



Silky Water: Capture Silky-smooth Streams and Waterfalls

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

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

Open  **Camera**. Swipe right on the screen and then go to **Light painting** > **Silky water**. 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.



Star Track: Capture the Beauty of the Stars

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

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

Open  **Camera**. Swipe right on the screen and then go to **Light painting > Star track**. 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 Time-lapse to Condense Hours into Minutes

You can use time-lapse to capture images over a long period of time and condense them into a short video, allowing you to view flowers blooming, the ebb and flow of city traffic, and the formation of clouds during the day and the movement of stars in the night sky.

- Avoid recording time-lapse for too long as it will use up your battery power and storage space.
- Use a sturdy tripod to reduce device movement during time-lapse recording.

Before starting the time-lapse, ensure that the scene is well lit and the camera is in focus. Position the camera carefully to avoid capturing irrelevant background objects.

Open  **Camera**. Swipe right on the screen, and then touch **Time-lapse**. Touch  to start recording. Touch  to finish recording.

Go to **Gallery** to play your time-lapse video.



Discover New Possibilities with Customised 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.

Downloading more shooting modes: Open  **Camera**, swipe right to go to the **Modes** page, then touch  to view the available modes. Select the shooting modes you want, and touch **INSTALLED**. After downloading, you can see the downloaded shooting modes under **Modes**.

Updating shooting modes: To update shooting modes, go to the **Modes** page, and touch . The shooting modes with available updates will have red dots next to them. You can follow the onscreen prompts to update them.

Deleting shooting modes: On the **Modes** page, touch  near the top of the screen to go into **Edit** mode, and then touch  to delete unneeded shooting modes.

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

Gallery

Photo Management

Edit Photos

Want to edit a picture you just took to make it even better? You can use the Gallery's editing features to crop, rotate, and apply a variety of effects (such as graffiti, personalised watermarks, and filters) to your photos to make them more striking.

Go to  **Gallery**, select the photo you want to edit, and touch  to enter the photo editing screen. You can use the following features to edit your photos:

- **Rotate a photo:** Touch , and slide the angle dial to customise the rotation angle of the photo. You can also touch **Rotate** or **Mirror** to rotate your photo 90 degrees or flip it.
- **Crop a photo:** Touch , and drag the grid tool box or its corners to make your selection. You can also select a fixed crop ratio and drag the corners of the grid tool to crop the photo.
- **Add filter effects:** Touch , and select your desired filter effect.
- **Colour retention:** Touch , and follow the onscreen instructions to select the colours you want to keep. The areas selected to retain colours will be highlighted.
- **Blur a photo:** Touch , select the blur mode you desire, and drag the slider to adjust the degree of the blur.
- **Adjust photo effects:** Touch , to adjust the photo's brightness, contrast, saturation, and other parameters according to your preferences.
- **Beautify a portrait photo:** When the system detects a portrait photo, it will automatically provide you with the **Beauty** feature. You can touch  in the photo editing screen to apply features such as **Smooth**, **Blemish**, **Thin face**, and **Enhance eyes** to make your portrait shot more attractive.
- **Create photo mosaics:** Touch , and select your desired mosaic style and size to create a photo mosaic.
- **Graffiti on photos:** Touch , and select your desired brush and colour to graffiti on photos.
- **Add watermarks:** Touch , and select your desired watermark (such as **Time**, **Location**, **Weather**, or **Mood**) to personalise your photos.
- **Add a tag:** Touch , and select an annotation style and font format to enrich your photos.

Browse and Share Photos and Videos

Browsing through old photos or videos in your free time can bring back precious memories. Your photos and videos are stored in Gallery. You can view them by time, location, or by selecting an album.

View photos in full screen: Open  **Gallery**, and touch a photo to view it in full screen mode.

Touch the screen again to hide the menu. When viewing photos in full screen mode, you can:

- **Zoom in or out on a photo:** Place two fingers on the screen and separate them to zoom in on the photo, or close them to zoom out.
- **View shooting parameters:** To view the shooting parameters of a photo, touch , and swipe up and down on the details window to view the ISO (sensitivity), EV (exposure compensation), resolution, and other parameters of the photo.
- **Rename a photo:** Go to  > **Rename**, and enter a new name for the photo.
- **Set photo as contact photo or desktop wallpaper:** Go to  > **Set as**, and set the photo as a **Wallpaper** or **Contact photo**.

Share a photo or video: Open  **Gallery**, touch and hold any file to enter the selection screen, then select the files you want to share and touch . Select a sharing method and follow the onscreen instructions to complete sharing.

Set automatic photo rotation: Want to make your photos and videos follow the screen's rotation?

From the **Gallery** screen, go to  > **Settings** > **Photo orientation**, and select **Always rotate**.

View by shooting time: You can view the shooting time of your photos and videos in the **Photos** tab. Go to  > **Settings**, and enable **Show time** to display the shooting date when viewing photos in full screen mode. From the **Photos** tab, you can separate or close two fingers to zoom out or in on the screen, and switch between day and month display for photos and videos.

View by shooting location: If you took a photo or video with **GPS tag** enabled in the **Camera** settings menu, you can view photos and videos in map mode. From the **Photos** tab, touch , and the photos or videos containing location information will be marked at the corresponding shooting locations on the map. You can separate two fingers to zoom in on the map and view the details of a photo. Touch the photo thumbnail to view all the photos and videos taken at that location.

View by album: You can view photos and videos by albums in the **Albums** tab. Some photos and videos are stored in default albums specified by the system. For example, videos recorded with the camera are saved in the **Camera videos** album. Screenshots and screen recordings are saved in the **Screenshots** album.

Play slideshows: From the **Photos** tab, go to  > **Slideshow**, and the system will automatically play a photo slideshow. Touch the screen to stop playing.

Organise Photo Albums

Add photos or videos to a new album: From the **Albums** tab, touch , enter an album name, and then touch **OK**. Select the images or videos that you want to add to the new album.

Move photos or videos: Combine photos and videos from separate albums for easier viewing. Open an album, touch and hold a photo or video until  appears, and then select the photos or videos to be moved. Touch  and select the destination album. After you move a photo or video, it will be removed from the original album.

Declutter albums: If your album list is too cluttered, you can move some albums to **Others**. Touch and hold an album until  appears, select the albums to be moved, and then touch  to move the albums to **Others**. If you want to restore albums to their original location, open **Others**, touch and hold the albums to be restored, and then touch .

-  • You cannot move the **Camera**, **Camera videos** or **Screenshots** albums to **Others**.
- Moving an album created by a third-party app to **Others** will not affect the app.

Reorder albums: Move albums that you use frequently to the top of the list for easier viewing. Touch and hold an album until  appears. Touch and hold  and drag with your finger to move an album up or down the list. When you are done, touch  to save changes.

-  You cannot reorder the **Camera**, or **Screenshots** albums.

Hide albums: Hide private albums that you don't want others to see. From the **Albums** tab, go to  > **Hide albums** and toggle on the switches for albums that you want to hide.

-  You cannot hide the **Camera**, or **Screenshots** albums.

Delete photos or videos: Touch and hold a photo or video until  appears, select the photos or videos to be deleted, and then touch  > **Delete**. Deleted photos and videos are kept in the **Recently deleted** album and are marked with an icon that indicates the number of days before they will be permanently deleted. To permanently delete photos or videos, go to **Recently deleted**, select the photos or videos to be deleted, and then touch  > **Delete**.

Restore deleted photos and videos: Open the **Recently deleted** album and touch and hold a photo or video until  appears. Select the photos or videos to be restored and touch  to restore them to the original album. The original album will be recreated if it no longer exists.

Phone Manager

Use One-touch Optimization

Have you noticed that your Phone has slowed down recently? Do you worry that it might be vulnerable to malware and other security threats? Use one-touch optimization to make your Phone run smoother and protect it from security threats.

Go to  **Phone Manager** and touch **OPTIMISE**. Your Phone will increase its running speed, check for security risks, optimize power consumption, and monitor and intercept unknown phone numbers and harassing calls.

Manage Your Mobile Data

Worried about accidentally using up your monthly data and paying extra fees? Data management helps you monitor your data traffic and prevent excessive data usage.

Go to  **Phone Manager**, and touch **Mobile data** to view data usage details or enable **Data saver**.

- **Data usage ranking:** Check the data usage of individual apps.
- **Networked apps:** Set Internet access permissions for each app.
- **Data saver:** Enable **Data saver** (prevent background apps from using mobile data) and select apps that are exempt from data usage restrictions.



Optimize Power Consumption

Running out of battery at an inopportune time can cause many inconveniences. Power saving features can help to prolong the battery life of your Phone, allowing you to play games or enjoy other features for longer.

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

- **View power consumption details:** Touch **Battery usage** to view power consumption details. In the Battery usage details section, the blue marks beneath **Charging** indicate the times when your device was charging. Gaps between the marks indicate times when your device was not charging. This feature does not consume power. Touch **Battery usage** to view which apps and hardware are consuming the most power.
- **Comprehensive power consumption check and optimization:** Touch **Optimise** to check for power consumption problems and automatically optimize performance.
- **Enable Power saving mode or Ultra power saving mode:** Enable **Power saving mode** or **Ultra power saving mode**. Choose the appropriate power saving mode based on your Phone's battery level to extend battery life.
- **Adjust screen resolution to save power:** Enable **Screen resolution** and select **Smart resolution**. Your device will automatically lower the screen resolution to save power. You can also manually set the screen resolution to save power when high resolution is unnecessary.

- **Display remaining battery percentage in status bar:** Enable **Battery percentage** to display the remaining battery percentage in the status bar.
- **Manage app launches to save power:** Touch **Launch** to automatically or manually manage app auto-launch, secondary launch, and background activity. The system will automatically manage power usage to save power.
 - You will receive a notification when there are power-intensive apps running in the background. Follow the onscreen instructions to optimize app settings.

Use Virus Scan to Keep Your Phone Safe

Opening the wrong advertisement can cause Trojan viruses and malware to secretly install and run on your device, stealing your contacts information and other personal data. Virus scan can locate and remove potential threats to keep your phone in good shape.

Open  **Phone Manager**, touch **Virus scan**, and your device will automatically scan for and delete security threats. At the same time, you can touch  to perform the following options:

- **Cloud virus scan:** Enable **Cloud scan** and your phone will add a dynamic, cloud-based scan to its standard scan, keeping the phone safe from new threats.
- **Virus scan reminder:** Enable **Scan reminder** and the system will notify you if you do not perform an anti-virus scan for more than 30 days.
- **Quick scan:** Select **Quick scan**. The system will quickly scan key locations and apps on your device during routine maintenance.
- **Full scan:** Select **Full scan**. The system will comprehensively scan your device for malicious files at regular intervals. This process takes longer, but covers a wider range and ensures your device is protected from threats.
- **Virus library update:** Enable **Auto-update** and **Only update over Wi-Fi**. The system will automatically update the virus database over Wi-Fi, keeping its threat removal capabilities up to date.

Email

Add Email Accounts

Add your email account to your phone for convenient email access at any time. If you have questions about specific settings while configuring your email, please consult your email account provider.

Add a personal email account: Open , select an email service provider or touch **Others**, enter your email address and password, then touch **Sign in** and follow the onscreen instructions to configure your account. The system will automatically connect to the server and check server settings.

Add an Exchange account: Exchange is developed by Microsoft and used by companies as their internal email system. If your company email uses Exchange servers, you can log in to your work email on your phone. Go to  > **Exchange**, enter your email address, username, and password, then touch **Sign in** and follow the onscreen instructions to configure your account. The system will automatically connect to the server and check server settings.

After configuration, the system will open the **Inbox** screen by default.

Manage Email Accounts

You can add one or more email accounts.

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 the profile picture or 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 the keywords, such as email subject and content.

Add multiple email accounts: Go to  > **Settings** > , select your email service provider, and enter your information.

Switch email accounts: On the accounts screen, touch , and then touch an account profile picture to switch.

Configure email accounts: On the account screen, go to  > **Settings**, select an account to set the **Account name**, **Default account**, or **Remove account**.

Manage VIP Email Contacts

Worried about missing an important contact's email among a sea of emails? You can add important contacts to the VIP list. Your device will automatically move emails from VIP contacts to the VIP mailbox.

Open  **Email** and go to  > **Settings** > **VIP contacts**. From the **VIP list** screen, go to **Add** > **Create** or **Add from contacts**.

Add or remove VIP contacts: On the **VIP list** screen, touch  or  to manage VIP contacts.

Change email notification for VIP contacts: From your email home screen, go to  > **Settings** > **VIP notifications**.

Set Auto Response for Exchange Email

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

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

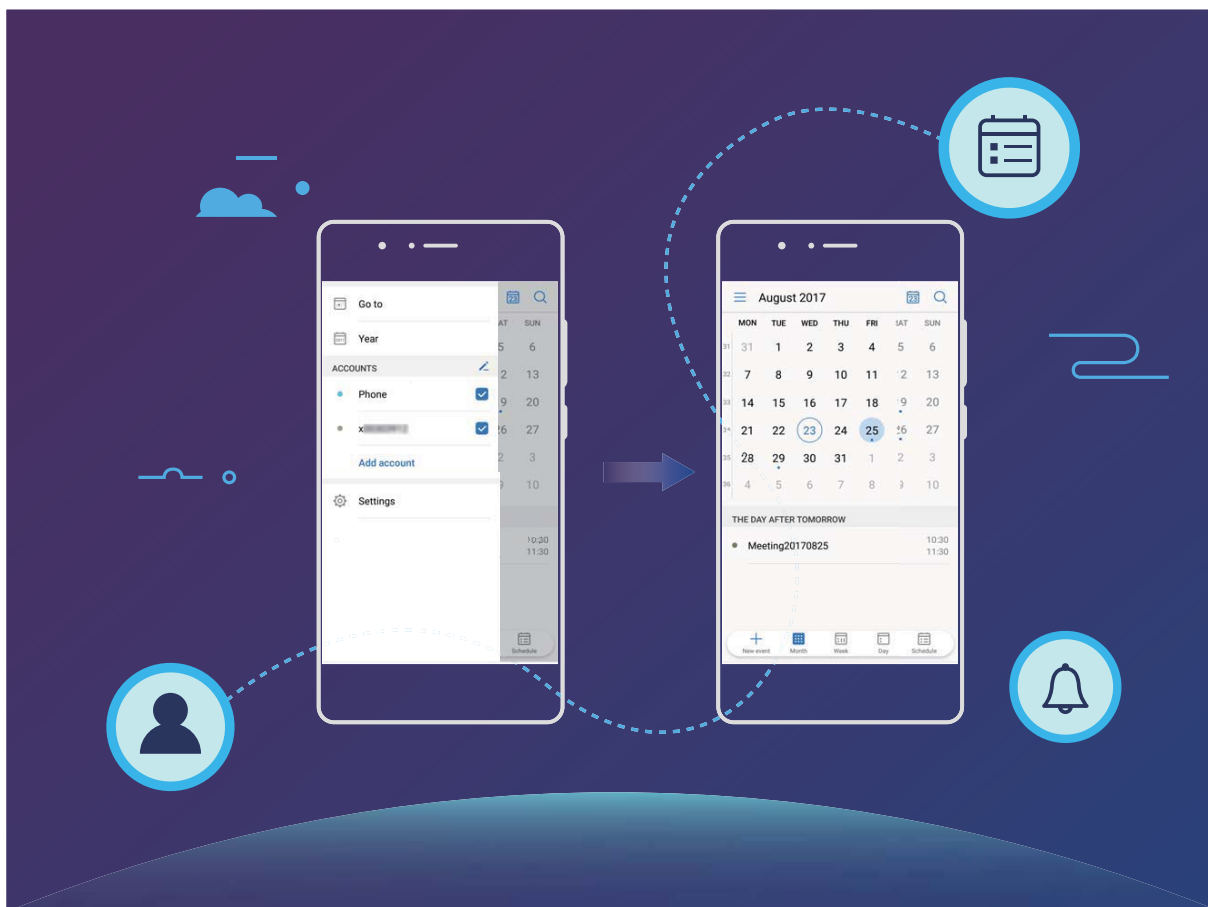
Calendar

Calendar: Your Event Management Centre

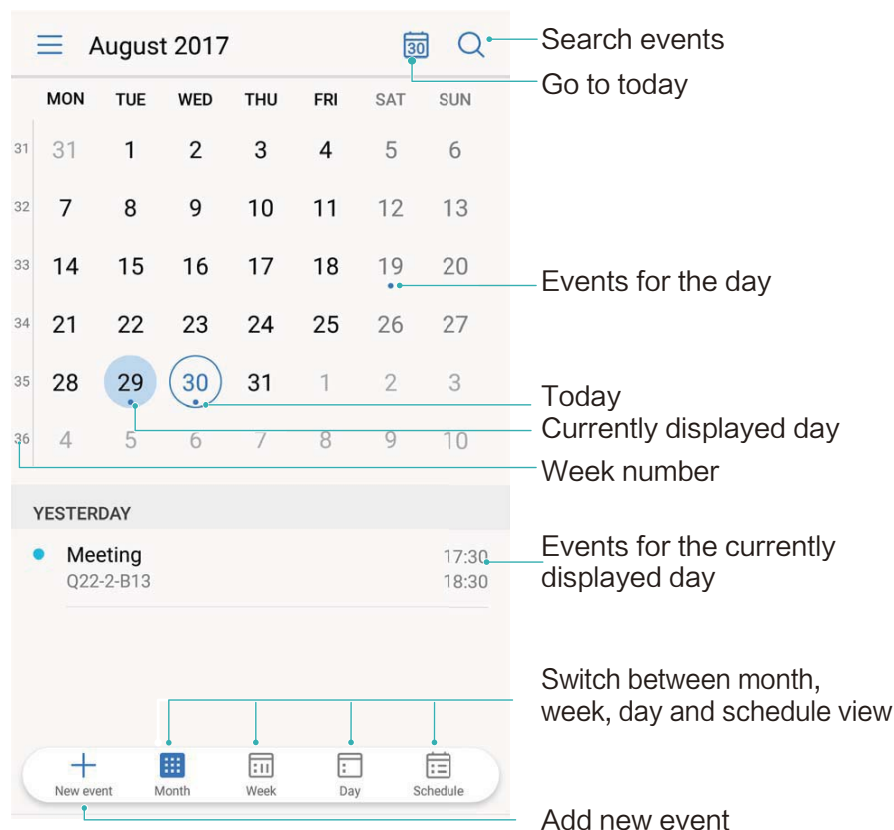
Too many events to keep track of? Calendar provides you with comprehensive event management, making your professional and personal lives easier.

Calendar provides the following functions:

- **Meeting reminders:** Worried about missing an important work meeting? Add your work email (Exchange account) in Calendar to check meeting reminders and receive a reminder from your Phone before the meeting begins.
- **Share events:** Want to share your schedule and invite your friends to an event? There are multiple sharing methods to choose from.



Navigate the Calendar



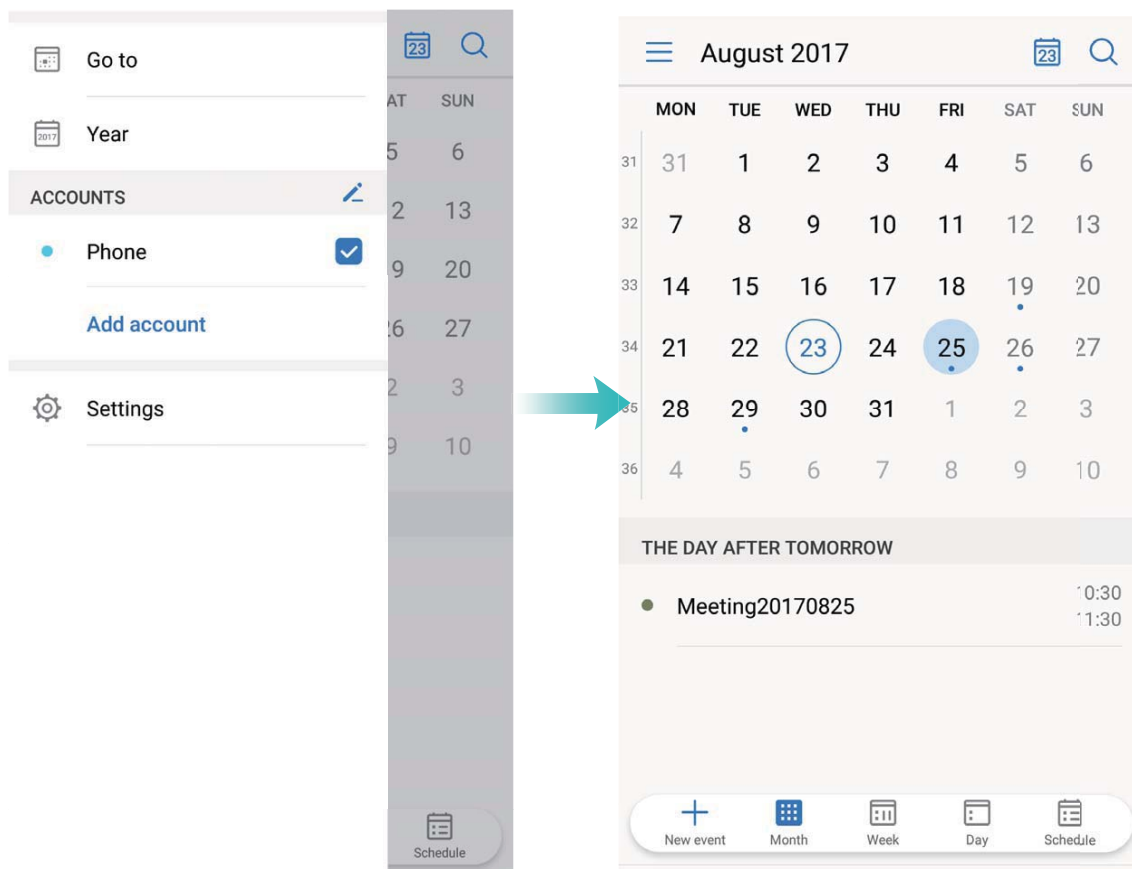
Create an event: Open  **Calendar**, touch , enter your event information including title, location, and start and end times. Go to **More** > **Remind** to add a reminder for your event, then touch .

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 customise calendar display and reminders.

Import To-Dos to Keep Your Work Organised

Import meeting reminders: Open  **Calendar**, go to  > **Add account**, and follow the onscreen prompts to add your work email (Exchange account) in **Calendar** to check meeting reminders.



Share an event: Touch an event on the calendar or under **Schedule**, then touch  and follow the onscreen prompts to share the event using any of the multiple methods.

View Global Holidays

Travelling overseas for work or holiday? Download your destination country's holiday information ahead of time to better plan your work and schedule.

Open  **Calendar**, go to  > **Settings** > **Global holidays**, and enable the corresponding switch for your destination country. Your device will automatically download the holiday information.

Clock

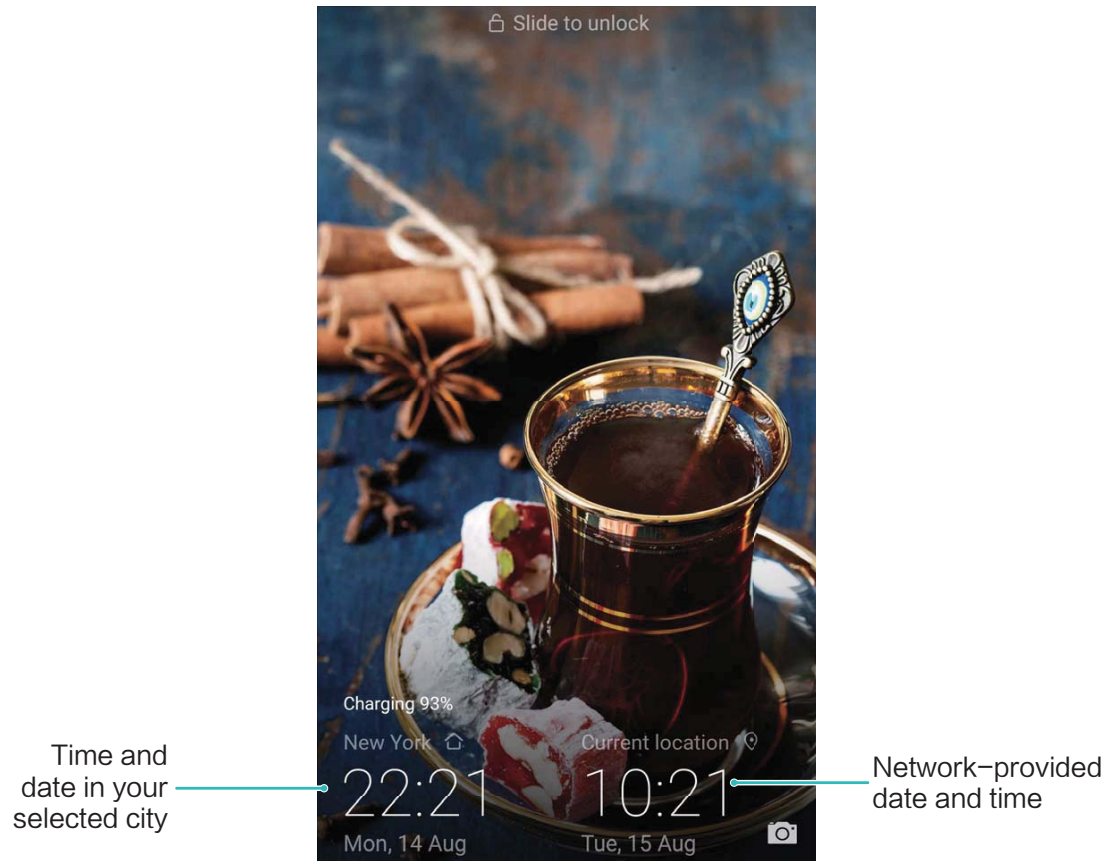
Use the Clock

With many powerful features and lots of information, the humble Clock has a lot to offer. The Clock can be used as an alarm, a world clock, stopwatch, or a timer.



View the time all over the world: Go to  **Clock**, touch  on the **World clock** tab and enter the name of a city or select a city from the list of cities. Touch  to set the date and time.

Display the time in two different regions: Go to  **Clock**, then go to  > **Date & time** in the **World clock** tab. Enable **Dual clocks**, touch **Home city**, and select your city of residence from the city list.



-  If the time in your current region is the same as that of your home city, the lock screen will only display one time.

Notepad

Manage Your Notes to Keep Your Records in Order

Want to share important notes or add something to favourites? 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 **Notepad**, open the note you want to share, then touch  to select a sharing method and follow the onscreen prompts.

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

Delete a note: Want to delete an outdated note? On the list page of **Notepad**, swipe left on a note, then touch . Alternatively, touch and hold a note to view options, select the note(s) you want to delete, and touch .

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

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

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

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

Device Connection

Bluetooth

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

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

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

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

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

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

Use Bluetooth to Share Data

Connect your phone to another device over Bluetooth to share data, import and export contacts, and set up Internet tethering.

Use Bluetooth to send files: Ensure that your phone is within Bluetooth range of the other device (10 m or 32 ft). You can then establish a Bluetooth connection and share multimedia files, web pages, contacts, documents, and apps between the two devices. Open  **Files**, touch and hold the file that you want to send, and then go to **More > Share > Bluetooth**. Follow the onscreen instructions to enable Bluetooth. When the other device is detected (Bluetooth must be enabled and the device must be visible), touch the name of the device to establish a connection and start sending files.

Receive files over Bluetooth: From the home screen, swipe down from the status bar, open the shortcuts panel, and then touch  to enable Bluetooth. Touch **Accept** on the file transfer notification to begin receiving the files. Received files are saved to the **Bluetooth** folder in **Files** by default.

Import or export contacts over Bluetooth: Open  **Contacts** and go to  > **Import/Export** to perform the following:

- **Import contacts:** Touch **Import from another device** and select **Supports Bluetooth**. Follow the onscreen instructions to establish a Bluetooth connection with the other device. Contacts from the other device will then be imported to your Phone automatically.

- **Export contacts:** Touch **Share contacts**, select the contacts that you want to share, touch  and select **Bluetooth**. Follow the onscreen instructions to establish a Bluetooth connection with the other device. Those contacts selected will be exported from your Phone to the other device automatically.

Multi-screen Display

Multi-screen: Share Your Device's Content on a Larger Screen

Connect your phone and your TV/streaming box to the same Wi-Fi network to use multi-screen sharing. When you look at pictures, you can display them on your TV and share happy memories with your friends and family.



Protocol Type	Connection Instructions	Connection Methods	Image Sharing Method
Miracast Protocol	Mirror what is shown on your device's screen on a separate device that supports Miracast (like a TV, projector, or other display).	Directly connect over Wi-Fi and turn on the screen sharing function (like Miracast) on the external device.	Everything displayed on your device will be shared to the display on the external device. When playing music and videos, only the image will be shown on your device; no audio will play.

Multi-screen: Mirror Your Screen

Select a display device: Swipe down from the status bar and open the shortcuts panel. Touch  to open multi-screen. After a display device is discovered, choose one of the supported connection methods, as indicated by the icons (). If your display device does not support the above connection methods, you can buy an Android set-top box and connect it to your display device.

: Miracast is supported. You can mirror your screen to the display device.

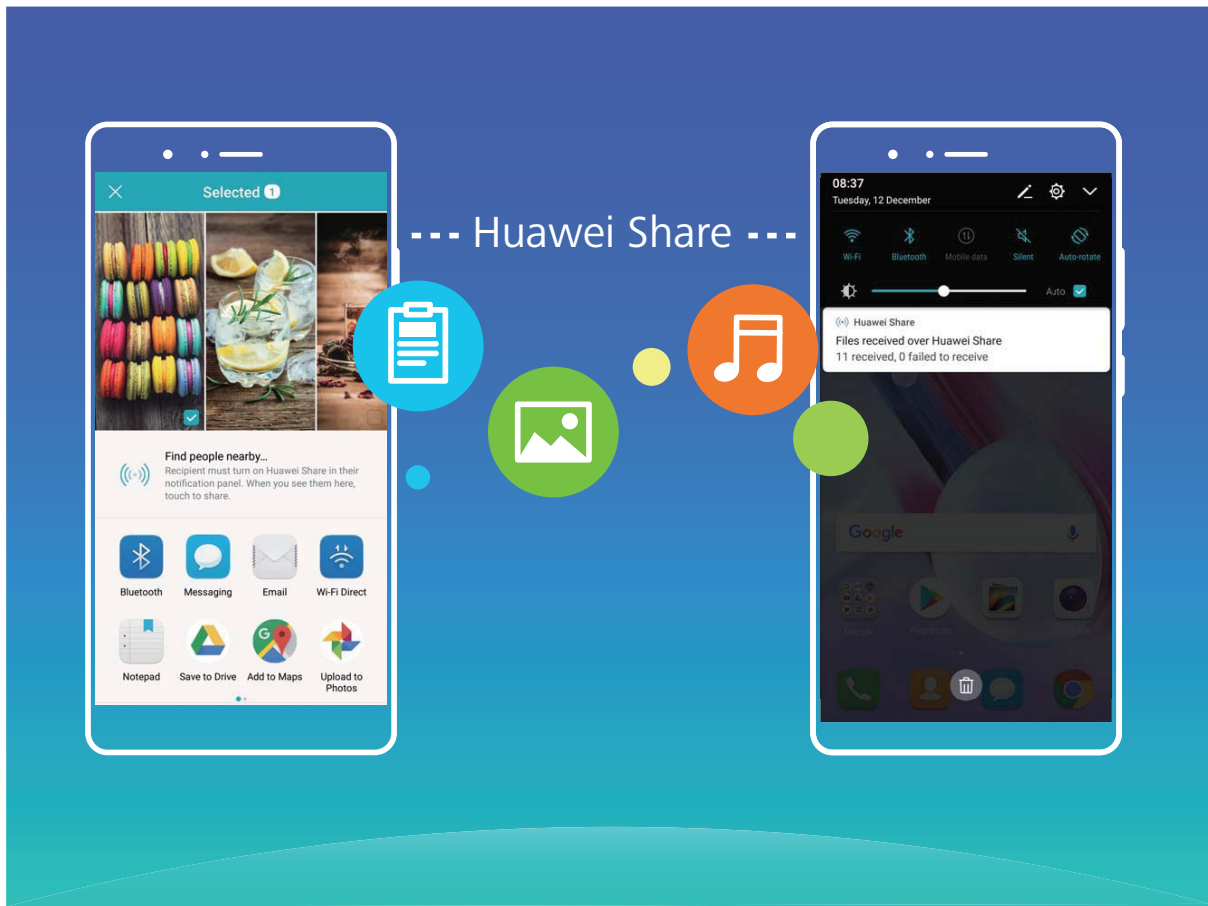
Mirror the screen to a display device: Swipe down from the status bar and open the shortcuts panel. Touch  to open multi-screen. Select the display device you want to use from the list. Enable the Miracast feature on the display device if necessary. See the device manual for instructions.

To stop mirroring your screen, touch  > **Disconnect**.

Transfer Files Using Huawei Share

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

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



Use Huawei Share to send files: Select the file you want to share and touch **Share**. Select the receiving device from the list of nearby devices to send the file.

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

Security and Privacy

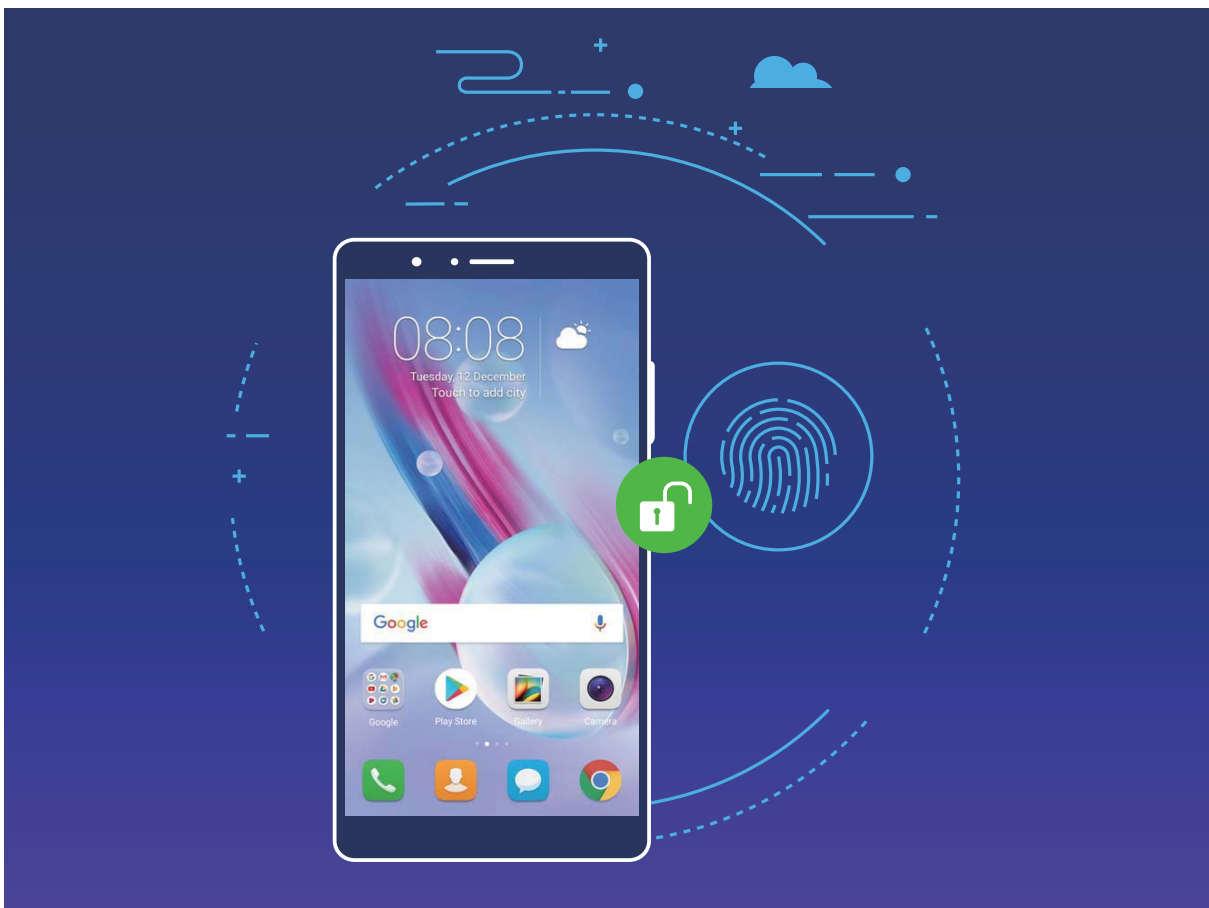
Fingerprint

Fingerprint Recognition: Enjoy Faster Navigation and Enhanced Security

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

Your fingerprint can be used 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.



Enrol a Fingerprint

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

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

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

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

Add, Delete, or Rename a Fingerprint

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

- 1 Open  **Settings**.
- 2 Go to **Security & privacy > Fingerprint ID > Fingerprint management**.
- 3 Enter the lock screen password and touch **Next**.
- 4 In the **Fingerprint list** section, you can:
 - Touch **New fingerprint** to enrol a new fingerprint.
 - Touch a previously enrolled fingerprint to rename or delete it.
 - Touch **Fingerprint recognition** to identify and highlight enrolled fingerprints.

Use a Fingerprint to Quickly Access Private Information

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

- 1 Open  **Settings**.
- 2 Go to **Security & privacy > Fingerprint ID**.
- 3 Enter the lock screen password and touch **Next**. Touch **Access safe**, **Access app lock**, and then follow the onscreen instructions to enter the passwords. Now you can:
 - **Use a fingerprint to access the Safe:** Open  **Files** and touch **Safe**, you can then access the Safe using your fingerprint.
 - **Use a fingerprint to access apps locked by App lock:** You can now open locked apps on your home screen using your fingerprint.

Location Information Protection

Location Services: Determine the Location of Your Phone

Location Services collects and provides location information for location-based apps (such as weather, maps, travel, and shopping apps) on your Phone. The approximate location of your Phone is determined by GPS positioning (if GPS is enabled and the service is available), mobile network data, and Wi-Fi positioning (if enabled). If GPS positioning is disabled, apps can still collect location information in other ways.

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 services**, and enable or disable **Access to my location**. When location services are enabled, you can also set the appropriate positioning mode. When location services are disabled, aside for pre-installed software (such as the Weather widget, SmartCare, and Find my phone), 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.

- **Use Wi-Fi and mobile networks:** Calculates your phone's location using carrier base station location information or nearby Wi-Fi router location information. The accuracy of the location information depends largely upon location information gathered from the base station or Wi-Fi network. Accuracy normally ranges from 100 meters to several kilometres. Network positioning has low accuracy, but allows for positioning while indoors and uses less battery power.
- **Use GPS only:** Only uses satellites found by your phone's GPS to determine your position. No network connection is needed. GPS satellite positioning is more accurate but also uses more battery. It is accurate within tens of meters. However, indoor positioning may be inaccurate.
- **Use GPS, Wi-Fi and mobile networks:** Combines the benefits of GPS positioning and networking positioning for accurate indoor and outdoor positioning.
-  ● 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 services > ⋮ > Scan settings**, and enable or disable Wi-Fi and Bluetooth scanning. Scanning Wi-Fi networks and Bluetooth devices will improve the accuracy of indoor positioning.

Use App Lock to Lock Important Apps

App lock allows you to set a password for your WeChat, Alipay, and other important apps. Once you restart your phone or unlock the phone screen, you will be asked to enter your App lock password when initially opening the apps. App lock enhances the protection of your private information and prevents unauthorised access to important apps on your device.

Enable App lock: Open  **Settings**. Go to **Security & privacy > App lock**, and follow the onscreen instructions to set a password, then enable App lock for the apps you want to protect. When you initially open a locked app, follow the onscreen instructions to enter your password or the answer to your security question.

 If you have set up a fingerprint to unlock your phone and are setting up your App lock password for the first time, you can follow the onscreen instructions to associate your fingerprint for easier app unlocking.

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

More Security Settings

Enhanced Data Protection: Defend Your Privacy

Worried that your photos, bank account information, or other private data might get leaked if your phone is lost or stolen? Huawei phones now feature security chips in addition to the combined protection provided by the trusted root key and lock screen password. Whether your data is stored in a microSD card or internal storage, it will receive the highest level of protection.

Stronger encryption and safeguards: Huawei phones use a hardware key that cannot be used to decrypt data when separated from the phone. Based on the trusted root key, the encrypted components are incorporated into the memory control chip to enhance the data protection capability of the hardware. This works together with your lock screen password to protect your private data. When you use PrivateSpace, Multi-user, encrypted microSD files, or other features to encrypt photos, personal information, or other personal data, the only way your data can possibly be decrypted is if the trusted root key, lock screen password, and security chip are simultaneously cracked. Not all devices support microSD cards.



Protect Your Privacy with microSD Card Encryption

Worried that others might see your photos and other personal data if you lend them your microSD card? You can encrypt the files stored in your microSD card so that other people who use the card cannot access your personal data. Encrypted files can only be viewed and used on your device. Other people can use the microSD card's storage space, but cannot view the content of the encrypted files.

 Do not remove your microSD card during the encryption or decryption process, as this may result in encryption or decryption failure, or data loss.

Open  **Settings**. To encrypt your files, go to **Security & privacy > More**, then touch **Set SD card password** and follow the onscreen instructions to complete the encryption process.

To decrypt your files, touch **Clear SD card password** and follow the onscreen instructions to complete the decryption process.

Backup and Restoration

Data Backup: Prevent Data Loss

Ever worry that important personal data on your Phone might be accidentally deleted or lost? Back up your data regularly to prevent data loss and increase your peace of mind.

There are four ways to back up your Phone's data:

- **microSD card:** If your Phone supports microSD cards, you can back up your data to a microSD card at any time, giving you a convenient way to prevent data loss.
- **Device internal storage:** You can back up smaller files to your device's internal storage.
- **USB storage device:** If you're running out of space in your Phone's internal storage, you can connect your Phone to a USB storage device using a USB OTG cable to back up your data.
- **Computer backup:** You can back up important data, pictures, and large files from your Phone to a computer to prevent data loss and free up your Phone's internal storage.

Back Up Your Data to a microSD Card

Worried about losing your data during a system update? Want to transfer data from an old device to your new Phone? If your Phone supports microSD cards, you can back up your data to a microSD card at any time, giving you a convenient way to protect yourself from data loss.

-  Always remember your backup password as you will not be able to retrieve your backup files without it.

To back up your data to your microSD card, open  **Backup**, go to **Back up > SD card > Next**, select the data you want to back up and touch **Back up**. A backup password is not required for pictures, audio and video files, and documents but is required for other types of data. Follow the onscreen instructions to set a backup password and security question.

You can view your backup files from the **Huawei\Backup** folder in **Files > Local > SD Card**.

Back Up Your Data to Internal Storage

You can back up your Phone's data to internal storage to prevent data loss. You are advised to back up relatively small files to your internal storage.

-  Features may vary depending on your carrier.
 - Always remember your backup password as you will not be able to retrieve your backup files without it.

To back up your data to internal storage, open  **Backup**, go to **Back up > Internal storage > Next**, select the data you want to back up and touch **Back up**. A backup password is not required for

pictures, audio and video files, and documents but is required for other types of data. Follow the onscreen instructions to set a backup password and security question.

You can view your backup files from the **Huawei\Backup** folder in **Files > Local > Internal storage**.

Back Up Your Data 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 to back up data. USB storage devices compatible with your Phone include USB flash drives, card readers, and devices that have a microSD card inserted.

-  • Features may vary depending on your carrier.
 - Not all devices support microSD cards.
 - Always remember your backup password as you will not be able to retrieve your backup files without it.

To back up your data to a USB storage device, open  **Backup**, go to **Back up > USB storage > Next**, select the data you want to back up and touch **Back up**. A backup password is not required for pictures, audio and video files, and documents but is required for other types of data. Follow the onscreen instructions to set a backup password and security question.

You can view your backup files from the **Huawei\Backup** folder in **Files**.

Back Up Your Data to a Computer

Do you have important data, pictures, or large files stored on your Phone? You can back up your important data to a computer to prevent data loss and free up storage space on your Phone.

-  Always remember your backup password as you will not be able to retrieve your backup files without it.

Please install the Huawei app on your computer before using it to back up or restore files from your Phone.

Back up data to your computer: Connect your Phone to your computer using a USB data cable.

The Huawei app will automatically open on your computer. From the Huawei app, select the data you want to back up, and follow the onscreen instructions to back up the data to your computer.

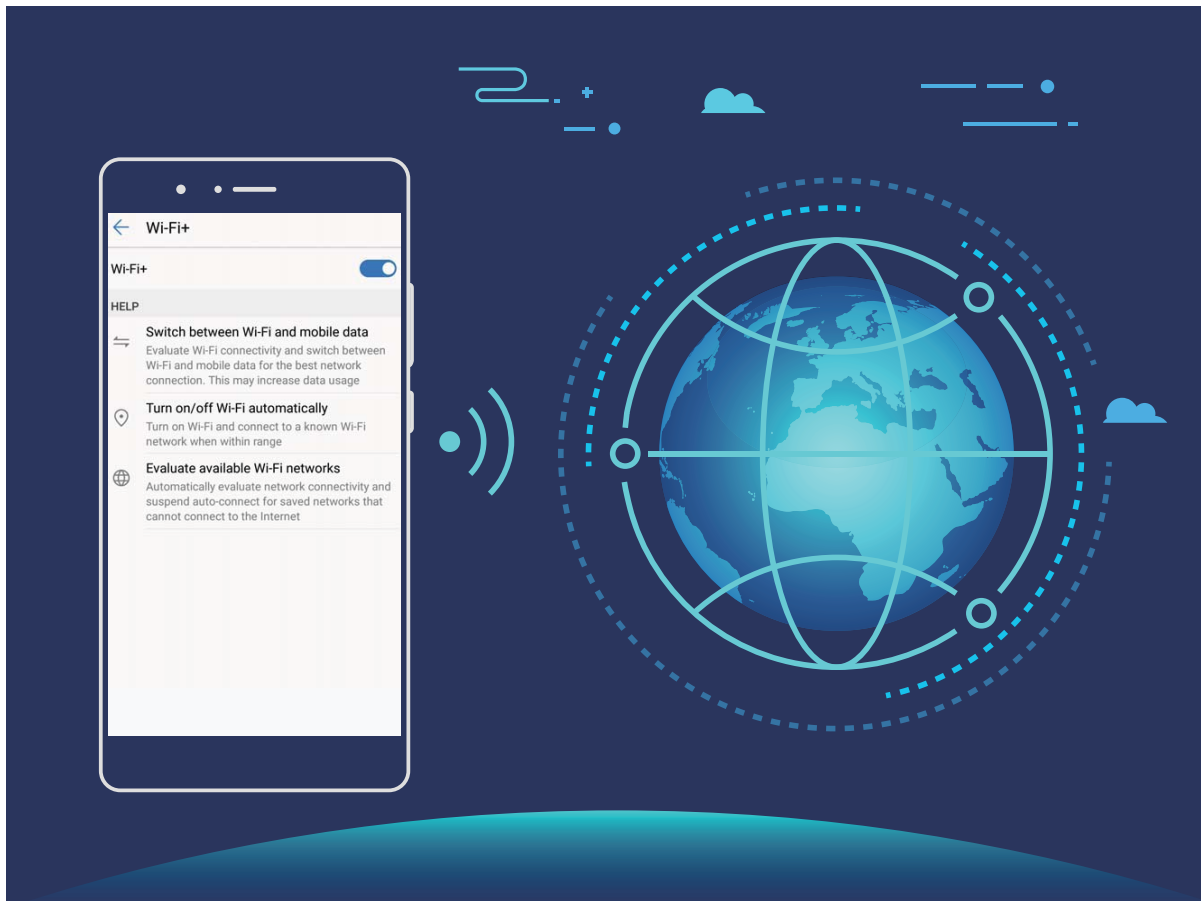
Import data to your Phone: Connect your Phone to your computer using a USB data cable. Open the Huawei app and go to the data recovery page to copy data from your computer to your Phone. If the backup data is password protected, enter the password when prompted.

Wi-Fi and Network

Wi-Fi

Wi-Fi+: Your Smart Connectivity Assistant

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.



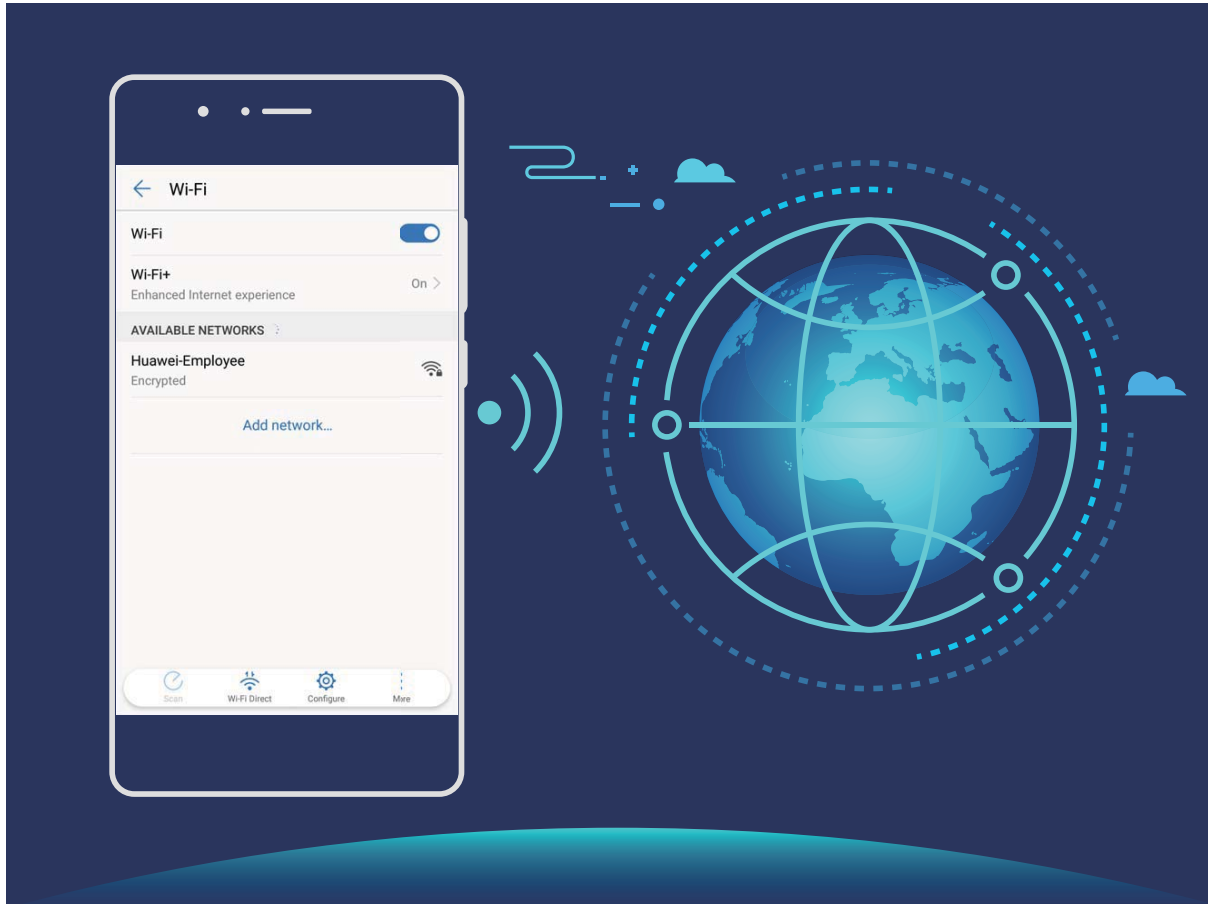
Once you have enabled Wi-Fi+, your device will:

- **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.
- **Automatically turn Wi-Fi on and off:** Depending on the Wi-Fi networks you have connected to previously, Wi-Fi will be automatically enabled or disabled 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

Connect to a Wi-Fi network to conserve your mobile data.

- i To prevent unauthorised access to your personal data and financial information, always exercise caution when connecting to public Wi-Fi networks.



Connect to Wi-Fi: Open  **Settings**, go to **Wireless & networks > Wi-Fi** and enable **Wi-Fi**. Select the network you want to connect to. Depending on the network settings, you may have to enter a password. Follow the onscreen instructions to complete authentication if required.

- **Refresh a Wi-Fi hotspot:** Touch **Scan** to search again for available wireless networks.
- **Manually add a Wi-Fi hotspot:** Scroll to the bottom of the menu, touch **Add network...**, and follow the onscreen instructions to enter the network SSID and password.

Connect to a Wi-Fi network through WPS: In the Wi-Fi screen, go to  **> Advanced Wi-Fi settings > WPS connection**. Press the WPS button on your router to establish a connection. Connecting to a WPS-enabled router over WPS allows you to quickly connect to the network without entering a 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  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.

Enable Wi-Fi+ to Automatically Connect to the Best Network

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

When the device is in a location with a weak Wi-Fi signal, Wi-Fi+ may automatically switch to a mobile data network. Using mobile data to download or view videos and other large files may incur additional charges. To avoid excessive data charges, purchase an appropriate data plan.

Connecting to the Internet

Connect to Wi-Fi networks effortlessly with your device.

Connecting to a Wi-Fi network

- 1 Swipe down from the status bar to open the notification panel.

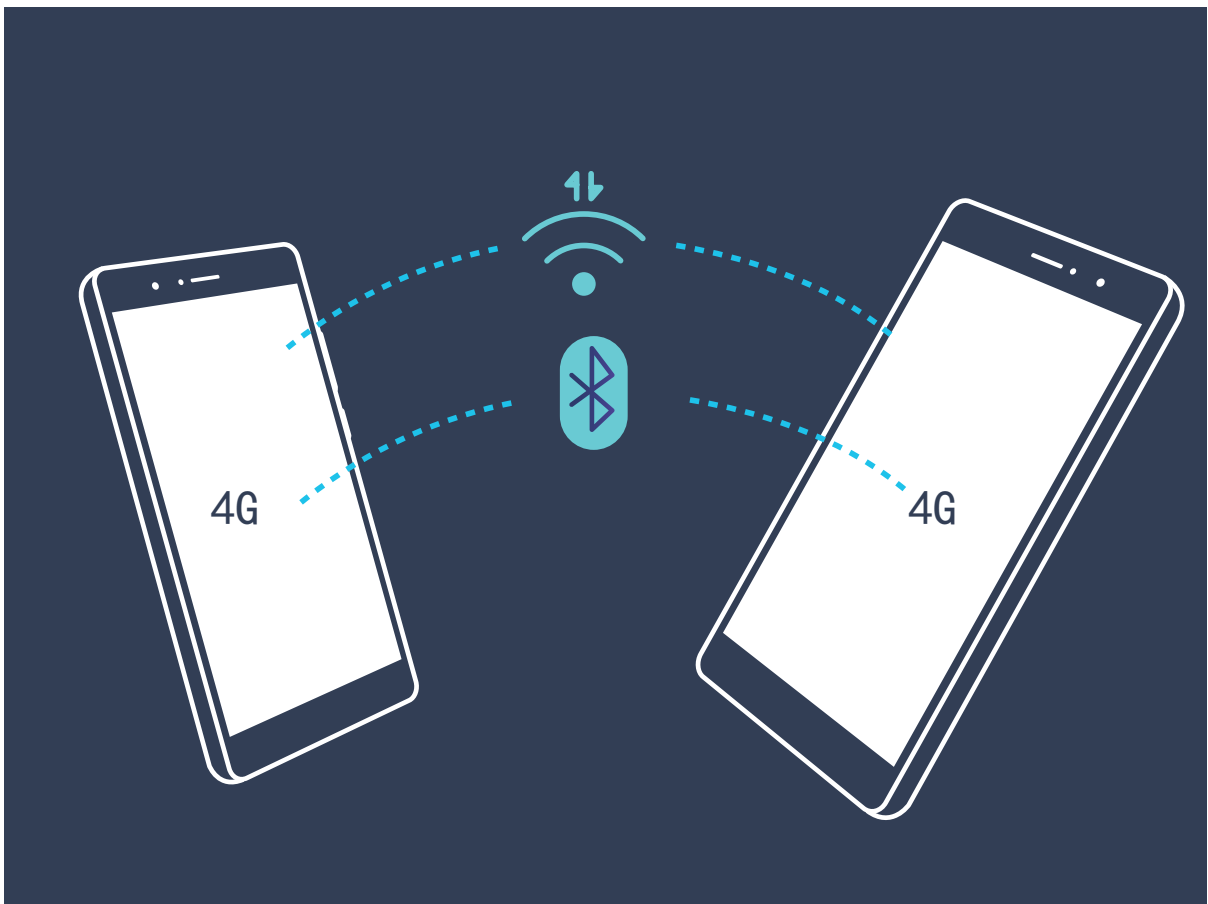
- 2 Touch and hold  to open the Wi-Fi settings screen.
- 3 Switch on **Wi-Fi**. Your device will list all available Wi-Fi networks at your location.
- 4 Select the Wi-Fi network you want to connect to. If you select an encrypted network, you will also need to enter the Wi-Fi password.

Connecting using mobile data

-  Before using mobile data, ensure that you have a data plan with your network provider to avoid incurring excessive data charges.
- 1 Swipe down from the status bar to open the notification panel.
 - 2 Touch  to enable mobile data.
 -  When you don't need to access the Internet, disable mobile data to save battery power and reduce data usage.

Share Your Mobile Network with Other Devices

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



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

Use Wi-Fi hotspot to share mobile data: Open  **Settings** and go to **Wireless & networks > Tethering & portable hotspot > Portable Wi-Fi hotspot > Configure Wi-Fi hotspot**. Set the

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

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

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

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

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

Apps and Notifications

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

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

 The App twin feature only works with WeChat, QQ, LINE, Facebook, Snapchat, WhatsApp, and Messenger. Download the latest versions of these apps before using this feature.

Open  **Settings**. Go to **Apps & notifications > App twin** and enable App twin for WeChat, QQ, LINE, Facebook, Snapchat, WhatsApp, or Messenger as required.

When App twin is enabled, two WeChat, QQ, LINE, Facebook, Snapchat, WhatsApp, or Messenger app icons are displayed 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 Do Not Disturb Mode

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

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

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

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

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

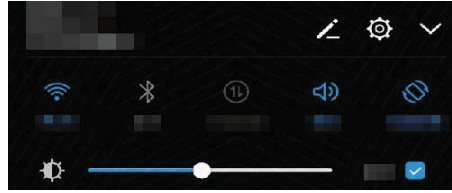
Configure Your Sound Settings

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

Adjust system volume: Press a volume button and touch  to adjust your ringtone, media, alarm, or call volume.

 You can also adjust volume in your system settings. Open  **Settings**, touch **Sound** 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 **Sound > More sound settings** to enable or disable keypad and notification tones.

Set your Phone to Silent mode: From the **Sound** 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.

Customise your ringtone and notification tone: From the **Sound** screen, select a custom ringtone or use the **Default notification sound**.

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 colours, 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 red tint.

Quickly enable or disable Eye comfort mode: Swipe down from the status bar to open the notification panel. From the notification panel, touch  to 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 **Schedule**, then set your desired **Start time** and **End time**.

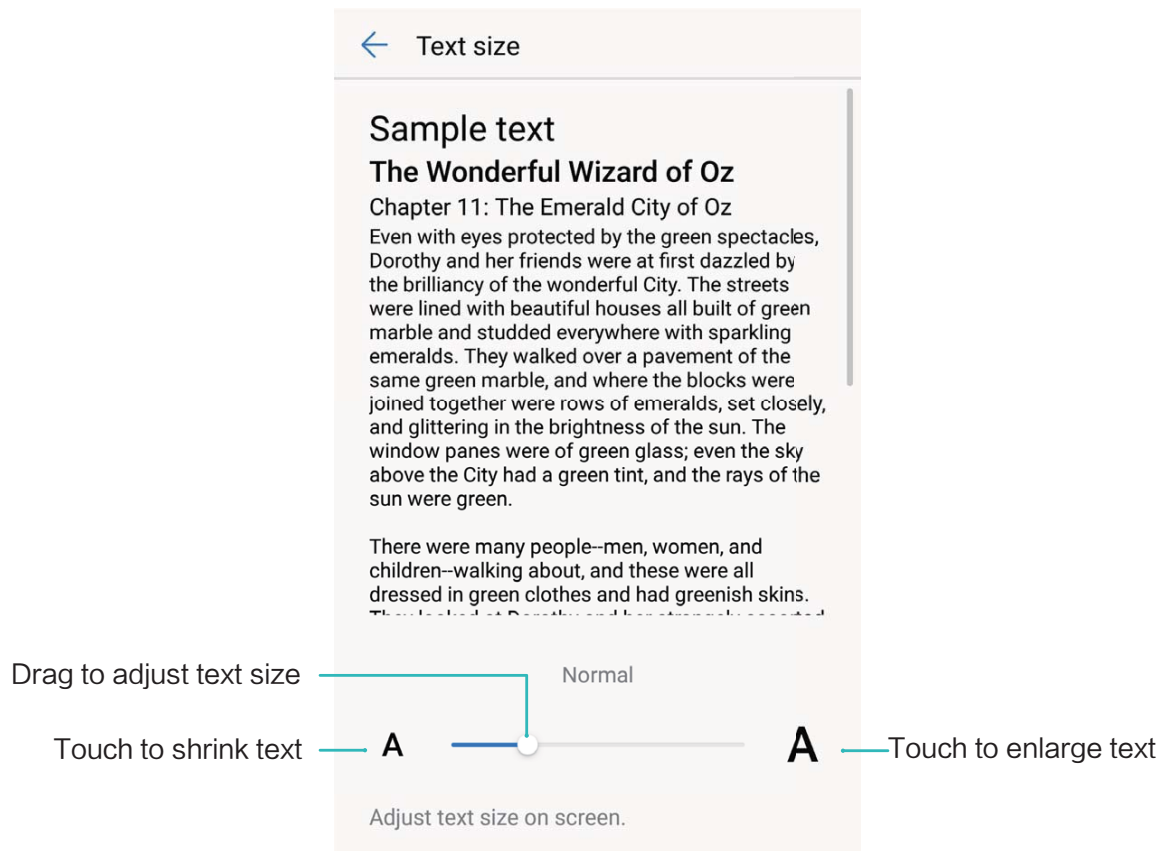
Adjust Eye comfort mode colour temperature: Once Eye comfort mode is enabled, blue light will be filtered out and the screen will take on a mild red tint. You can adjust the colour temperature as needed. After you have enabled **Eye comfort**, you can adjust the colour temperature slider for a cooler or warmer screen colour.

Change the Display Settings

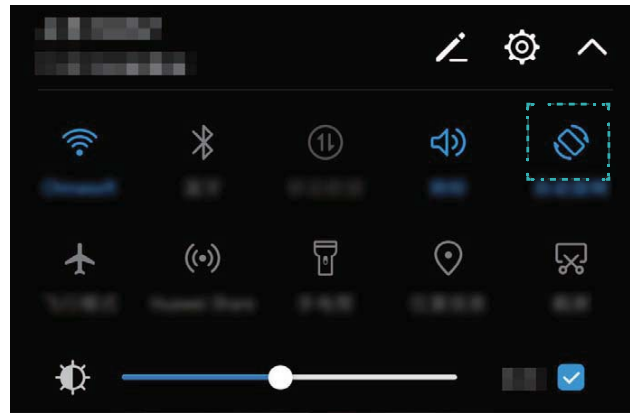
Change the font size and adjust the screen brightness to suit your needs.

Open  **Settings** and touch **Display**. From here you can:

- **Change the image and text size:** Touch **View mode** and select a display mode to suit your needs.
- **Change the text size:** Touch **Text size** and select the desired size.



- **Adjust the screen brightness:** From **Brightness**, select the check box next to **Automatic**. When this option is enabled, your Phone will automatically adjust the screen brightness based on the ambient brightness. To manually adjust the brightness, drag the brightness slider, or swipe down on the status bar to open the notification panel and access the brightness settings.
- **Enable automatic screen rotation:** Enable **Auto-rotate screen**. Alternatively, swipe down from the status bar, open the shortcuts panel, and then switch on .



- **Adjust the colour temperature:** Touch **Color mode**. Select a preset option (**Default**, **Warm**, or **Cold**). Alternatively, touch or drag the slider to manually adjust the colour temperature. The colour temperature cannot be changed when **Eye comfort** is enabled.
- **Automatically adjust the screen resolution:** Touch **Screen resolution** and enable **Smart resolution**. The system will automatically adjust the screen resolution to reduce power consumption.
- **Enable the screensaver:** Touch **Screen saver** and enable **Screen saver** to configure the **Picture source** and **Duration**. Your Phone will display a slideshow of your photos when the battery is charging and your Phone enters standby mode.

Storage

Storage Cleaner

Clean Up Memory for Faster Performance

Does your Phone slow down over time? Do you want to clean up your system storage but are unsure which files to delete? Memory cleanup helps you quickly clear your cache, large and residual files, and unused app files to speed up system performance and keep your Phone in top shape.

When your system performance slows down or remaining storage space is low, Phone Manager will remind you to clean up. You can follow the onscreen prompts to clean up your Phone's memory and free up storage space.

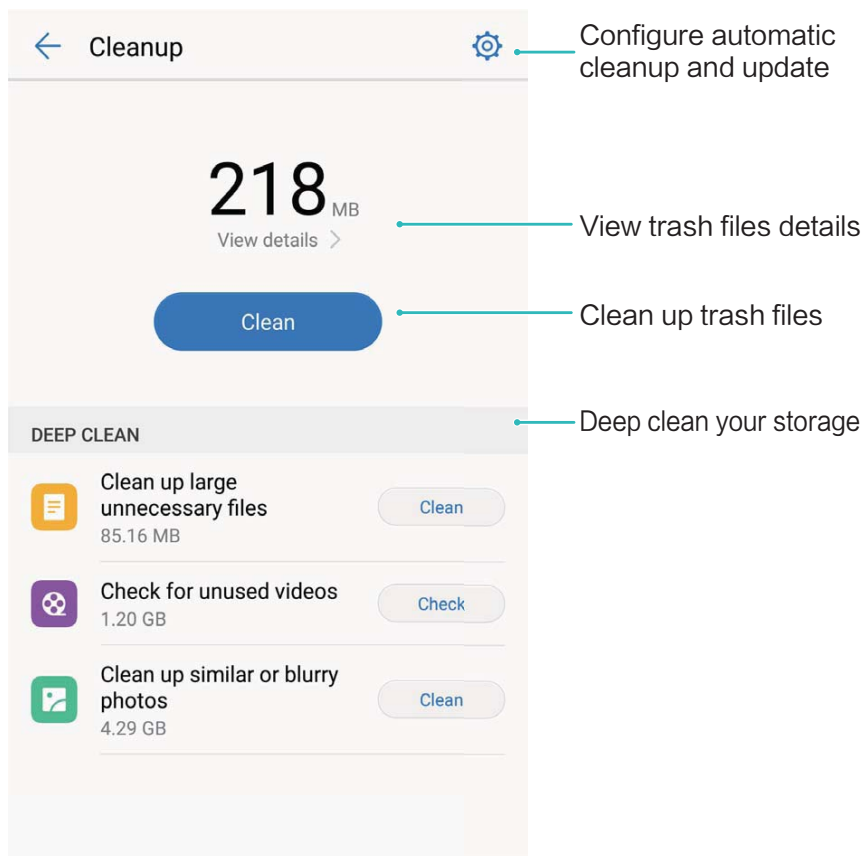
Clean: Scan for and clean up trash files and system cache to quickly free up memory and internal storage space without affecting your Phone usage.

Deep clean: Scan for redundant files including WeChat files, large files, videos, images, app residual files, music files, unnecessary installation packages, unused files, and files that take up a lot of space, and obtain cleaning suggestions based on the scan results. This helps you free up storage space without accidentally deleting important files.

Clean Up Your Storage to Keep Your Device Running Like New

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

Open  **Phone Manager**, touch **Cleanup**, and clean up memory and cache based on the scan results to speed up your device's performance. If your storage space is still low, you can perform a deep clean to free up more storage space based on the scan results and cleanup recommendations.



Smart Assistance

Navigation Bar and Navigation Dock

Navigation Dock: Control Your Phone at a Touch

Every time you want to close an app or return to the home screen, you must use the navigation bar at the bottom of your Phone. Now, you can also use Navigation dock to perform the same functions, making your Phone even more user-friendly.

Use the preset gestures to go back, return to the home screen, or switch between apps.

Access Phone Functions from Anywhere with Navigation Dock

If you want to access frequently-used features on your Phone more quickly, enable Navigation dock.

Open  **Settings**. Touch **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.
- **Switch between apps**: Touch and hold the Navigation dock and swipe left or right to switch between apps.

System

Language and Input Method

Change the Input Method

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

Open  **Settings**. Go to **System > Language & input > Default keyboard > Configure input methods** and enable the desired input method. Return to **Language & input**, touch **Default keyboard**, select the input method.

Accessibility

Enable TalkBack to Have Onscreen Content Read Aloud

TalkBack reads aloud content on the screen that you touch, select, or activate. It is a useful tool that helps visually impaired users interact with their Phone.

- 1 Open  **Settings** and go to **Smart assistance > Accessibility > TalkBack** to open 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 , open the TalkBack settings screen, and then launch the tutorial.
- 3 Touch  and enable **Explore by touch**. When **Explore by touch** is enabled, your device will read out content that you touch.

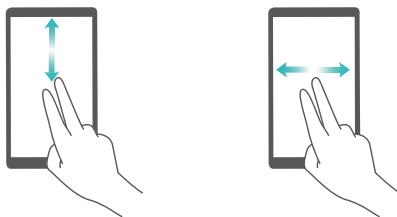
Why does my Phone suddenly start reading out content on the screen? How do I disable this feature? You may have enabled TalkBack by accident. To disable TalkBack, press and hold the Power button until your device vibrates, and then touch the screen with two fingers for at least three seconds.

Learn TalkBack Gestures

TalkBack uses a special set of gestures for Phone operation. When TalkBack is enabled, these gestures are required to interact with the device.

-  If you accidentally enable TalkBack, press and hold the Power button until your device vibrates, and then touch the screen with two fingers for at least three seconds to disable it.

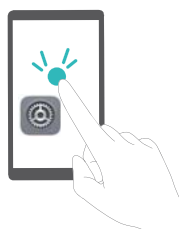
Navigate the screen: Swipe up or down with two fingers to scroll through menu lists. Swipe left or right to move between screens.



Select an item: Touch an item with one finger to select it (it will not open). Your device will read out the content of the selected item.



Open an item: Double-touch any part of the screen using one finger to confirm your selection from the previous step.



For example, if you want to open **Settings**, touch the **Settings** icon once using one finger, and then touch twice anywhere on the screen.

Use Text-to-Speech Output with TalkBack

The text-to-speech feature can read aloud texts on the screen of your Phone. It can also be used with the TalkBack service to help visually impaired users interact with their devices.

Open  **Settings**, go to **Smart assistance > Accessibility** and enable **Text-to-speech output**. Configure your preferred engine and speech rate to enable this feature.

Enable Colour Correction

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

 When colour correction is enabled, users with normal colour vision may have difficulty viewing some colours.

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

General Settings

Change Your System Language

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

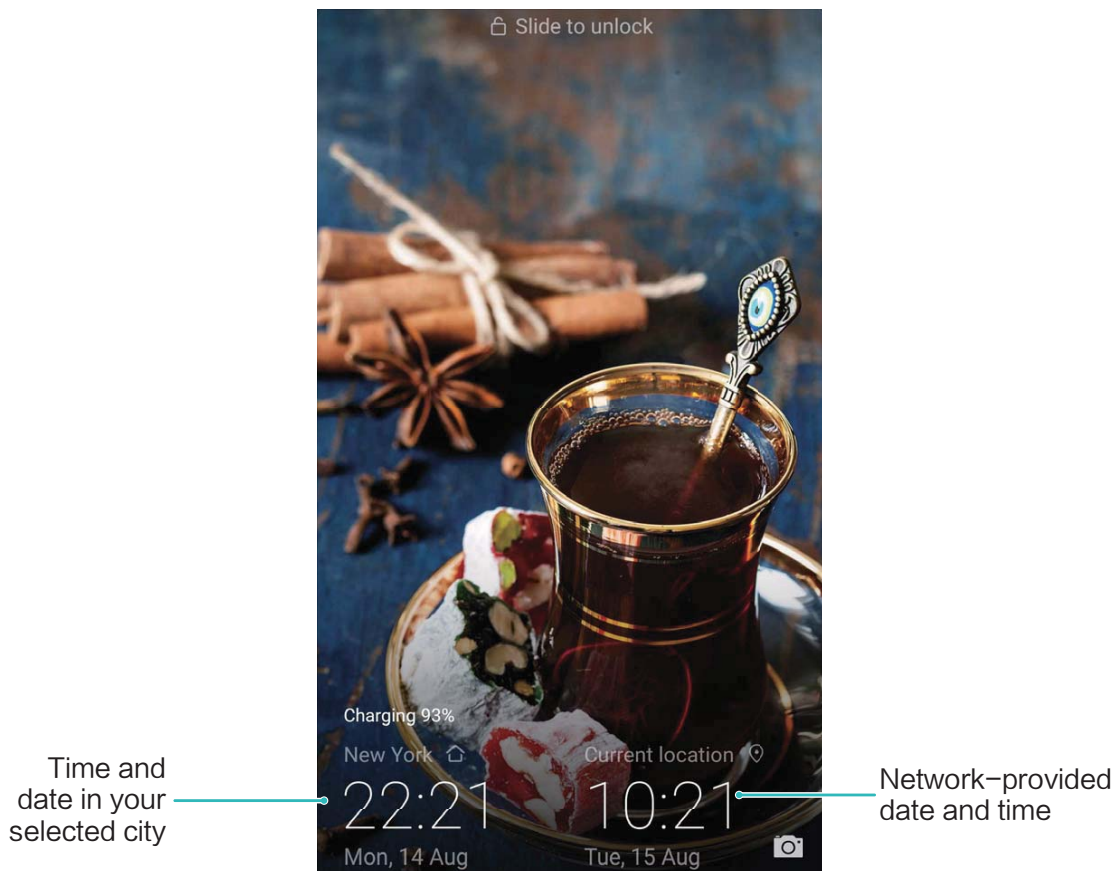
Open  **Settings**, go to **System > Language & input > Language** and select your system language. If you cannot find your language from the language list, touch **Add language** to add your language.

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 **Automatic date & time** to sync your Phone's time and date with your mobile network. Disable **Automatic date & time** to set your time and date manually.
- **Modify your time zone:** Enable **Automatic time zone** to sync your Phone's time zone with your mobile network. Disable **Automatic time zone** 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.

- i • 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 , 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 connection > Printing > default print service** and check that **default print service** is enabled. Select a printer from the search results, or touch **More > Add printer** and follow the onscreen instructions to manually add a 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, go to  **> Print**, and then follow the onscreen instructions to send the note to the printer.

Set Scheduled Power Offs

Want to power off your Phone during certain hours of the day to save battery life and avoid being disturbed? Use the automatic power on/off feature to power your device on and off at set times during the day.

Open  **Settings**, go to **Smart assistance > Scheduled power on/off**, enable **Scheduled power off** and **Scheduled power on**, and set power on and power off times as well as repetition settings. Your device will power on and off automatically at the selected times.

To disable scheduled power on and off, disable **Scheduled power off** and **Scheduled power on**.

Enable Airplane Mode for Safer Flying and Longer Battery Life

Worried that it's not safe to leave your Phone on during a flight? Want an easy way to increase your Phone's battery life when you don't plan on making or receiving any calls? You can enable Airplane mode to fly safely and increase your battery life.

 When flying, please follow the flight crew's instructions and either turn off your device or enable Airplane mode.

If Airplane mode is enabled, your Phone will automatically disable calls, mobile data services, Bluetooth, and Wi-Fi. However, you can manually enable Bluetooth and Wi-Fi in Airplane mode.

Enable or disable Airplane mode using the shortcut switch: Swipe down from the status bar.

From the notification panel, touch  to open the shortcuts panel and then touch .

Enable or disable Airplane mode from the Settings menu: Open  **Settings**, touch **Wireless & networks** and enable or disable **Airplane mode**.

After you enable Airplane mode, an  icon will appear in the status bar.

Use Account Management to Manage and Update Your Accounts

Want to sync multiple email accounts, app notifications and records from multiple Phones and computers? You can use your Phone to manage and update in real time multiple email and app accounts on a variety of other devices including Phones, computers, and others.

-  Third-party app accounts can only be created if the third-party app is installed on your device.
- The type of information that can be synced depends on the account type.

Open  **Settings** and touch **Accounts**. From here you can:

- **Add an account:** Touch **Add account**, select an account type and then follow the onscreen instructions to enter the account details and add the account.
- **Delete an account:** Select the account you want to delete and then follow the onscreen instructions to delete the account.
- **Sync accounts:** Touch , select **Auto-sync data**, follow the onscreen instructions and then touch **OK**. If you do not select **Auto-sync data**, you can select an account manually and touch  to sync.

View Memory and Storage Information

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.

Open  **Settings** and touch **Storage** to view your memory, internal storage, or microSD card usage information, and perform the following:

- **Clear storage space:** Select **Storage cleaner** to enter the **Cleanup** screen and clean your memory or free up storage space with a single touch.
- **Format your microSD card:** Go to **SD Card > Format > Erase & format** to clear all data in your microSD card. Backup your data beforehand to avoid data loss.

View Product Information to Know Your Device Better

To get to know your Phone better, you can view your Phone's product information such as the model number, version number, IMEI number, hardware settings, product specifications and legal certification.

-  Single SIM devices have one IMEI number while dual SIM devices have two IMEI numbers.

View product information: Go to  **Settings** and touch **System > About phone** to view information such as the model number, different version numbers, IMEI number, hardware information, status information and legal certification for your device.

Change device name: Open  **Settings** and touch **System > About phone > Device name** to change the device name of your Phone.

System Update

Performing an Online Update

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

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

1 Open  **Settings**.

2 Go to **System > System update > Check for updates**.

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

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

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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.

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