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Basics

Read me first

Please read this manual before using the device to ensure safe and proper use.

• Descriptions are based on the device’s default settings.
• Some content may differ from your device depending on the region, service provider, model specifications, or device’s software.
• Content (high quality content) that requires high CPU and RAM usage will affect the overall performance of the device. Apps related to the content may not work properly depending on the device’s specifications and the environment that it is used in.
• Samsung is not liable for performance issues caused by apps supplied by providers other than Samsung.
• Samsung is not liable for performance issues or incompatibilities caused by edited registry settings or modified operating system software. Attempting to customise the operating system may cause the device or apps to work improperly.
• Software, sound sources, wallpapers, images, and other media provided with this device are licensed for limited use. Extracting and using these materials for commercial or other purposes is an infringement of copyright laws. Users are entirely responsible for illegal use of media.
• You may incur additional charges for data services, such as messaging, uploading and downloading, auto-syncing, or using location services depending on your data plan. For large data transfers, it is recommended to use the Wi-Fi feature.
• Default apps that come with the device are subject to updates and may no longer be supported without prior notice. If you have questions about an app provided with the device, contact a Samsung Service Centre. For user-installed apps, contact service providers.
• Modifying the device’s operating system or installing softwares from unofficial sources may result in device malfunctions and data corruption or loss. These actions are violations of your Samsung licence agreement and will void your warranty.
• Depending on the region or model, some devices are required to receive approval from the Federal Communications Commission (FCC). If your device is approved by the FCC, you can view the FCC ID of the device. To view the FCC ID, launch the Settings app and tap About phone → Status.

• Depending on the region, you can view the regulatory information on the device. To view the information, launch the Settings app and tap About phone → Legal information.

**Maintaining water and dust resistance**

Your device supports water- and dust-resistance. Follow these tips carefully to maintain the water- and dust-resistance of your device. Failure to do so may result in damage to your device.

• Do not immerse the device in water deeper than 1.5 m and keep it submerged for more than 30 minutes.

• Do not expose the device to water moving with force.

• If the device is exposed to clean water, dry it thoroughly with a clean, soft cloth. If the device is exposed to other liquids, such as salt water, ionised water, or alcoholic beverage, rinse it with clean water and dry it thoroughly with a clean, soft cloth. If you do not follow these instructions, the device’s performance and appearance may be affected.

• If the device has been immersed in water or the microphone or speaker is wet, sound may not be heard clearly during a call. Wipe the device with a dry cloth or dry it thoroughly before using it.

• The touchscreen and other features may not work properly if the device is used in water.

• Your device has been tested in a controlled environment and certified to be water- and dust-resistant in specific situations (meets requirements of classification IP68 as described by the international standard IEC 60529-Degrees of Protection provided by Enclosures [IP Code]; test conditions: 15-35 °C, 86-106 kPa, 1.5 metre, 30 minutes). Despite this classification, it is still possible for your device to be damaged in certain situations.
Instructional icons

⚠️ **Warning**: situations that could cause injury to yourself or others

⚠️ **Caution**: situations that could cause damage to your device or other equipment

📝 **Notice**: notes, usage tips, or additional information

Device overheating situations and solutions

**When the device heats up while charging the battery**

While charging, the device and the charger may become hot. During wireless charging or fast charging, the device may feel hotter to the touch. This does not affect the device’s lifespan or performance and is in the device’s normal range of operation. If the battery becomes too hot, the charger may stop charging.

**Do the following when the device heats up:**

- Disconnect the charger from the device and close any running apps. Wait for the device to cool down and then begin charging the device again.
- If the lower part of the device overheats, it could be because the connected USB cable is damaged. Replace the damaged USB cable with a new Samsung-approved one.
- When using a wireless charger, do not place foreign materials, such as metal objects, magnets, and magnetic stripe cards, between the device and the wireless charger.

📝 The wireless charging or fast charging feature is only available on supported models.
When the device heats up during use

When you use features or apps that require more power or use them for extended periods, your device may temporarily heat up due to increased battery consumption. Close any running apps and do not use the device for a while.

The following are examples of situations in which the device may overheat. Depending on the functions and apps you use, these examples may not apply to your model.

- During the initial setup after purchase or when restoring data
- When downloading large files
- When using apps that require more power or using apps for extended periods
  - When playing high-quality games for extended periods
  - When recording videos for extended periods
  - When streaming videos while using the maximum brightness setting
  - When connecting to a TV
- While multitasking (or, when running many apps in the background)
  - When using Multi window
  - When updating or installing apps while recording videos
  - When downloading large files during a video call
  - When recording videos while using a navigation app
- When using large amount of data for syncing with the cloud, email, or other accounts
- When using a navigation app in a car while the device is placed in direct sunlight
- When using the mobile hotspot and tethering feature
- When using the device in areas with weak signals or no reception
- When charging the battery with a damaged USB cable
- When the device’s multipurpose jack is damaged or exposed to foreign materials, such as liquid, dust, metal powder, and pencil lead
- When you are roaming
Do the following when the device heats up:

- Keep the device updated with the latest software.
- Conflicts between running apps may cause the device to heat up. Restart the device.
- Deactivate the Wi-Fi, GPS, and Bluetooth features when not using them.
- Close apps that increase battery consumption or that run in the background when not in use.
- Delete unnecessary files or unused apps.
- Decrease the screen brightness.
- If the device overheats or feels hot for a prolonged period, do not use it for a while. If the device continues to overheat, contact a Samsung Service Centre.

Device limitations when the device overheats

When the device heats up, the features and performance may be limited or the device may turn off to cool down. The feature is only available on supported models.

- If the device becomes hotter than usual, a device overheating message will appear. To lower the device’s temperature, the screen brightness and the performance speed will be limited and battery charging will stop. Running apps will be closed and you will only be able to make emergency calls until the device cools down.
- If the device overheats or feels hot for a prolonged period, a power off message will appear. Turn off the device, and wait until it cools down.
Precautions for operating environment

Your device may heat up due to the environment in the following conditions. Use caution to avoid shortening the battery’s lifespan, damaging the device, or causing a fire.

- Do not store your device in very cold or very hot temperatures.
- Do not expose your device to direct sunlight for extended periods.
- Do not use or store your device for extended periods in very hot areas, such as inside a car in the summertime.
- Do not place the device in any areas that may overheat, such as on an electric heating mat.
- Do not store your device near or in heaters, microwaves, hot cooking equipment, or high pressure containers.
- Never use a damaged charger or battery.

Package contents

Check the product box for the following items:

- Device
- Quick start guide

- The items supplied with the device and any available accessories may vary depending on the region or service provider.
- The supplied items are designed only for this device and may not be compatible with other devices.
- Appearances and specifications are subject to change without prior notice.
- You can purchase additional accessories from your local Samsung retailer. Make sure they are compatible with the device before purchase.
- Use only Samsung-approved accessories. Using unapproved accessories may cause the performance problems and malfunctions that are not covered by the warranty.
- Availability of all accessories is subject to change depending entirely on manufacturing companies. For more information about available accessories, refer to the Samsung website.
Device layout

- SIM card / Memory card tray
- Speaker
- LED indicator
- Front camera
- Proximity sensor
- GPS antenna
- Touchscreen
- Power key
- Edge screen
- Edge screen
- Home key (Fingerprint recognition sensor)
- Recents key
- Back key
- Earphone jack
- Speaker
- Multipurpose jack
- Microphone
- SIM card / Memory card tray
- Speaker
- LED indicator
- Front camera
- Proximity sensor
- GPS antenna
- Touchscreen
- Power key
- Edge screen
- Edge screen
- Home key (Fingerprint recognition sensor)
- Recents key
- Back key
- Earphone jack
- Speaker
- Multipurpose jack
- Microphone
• Connectivity problems and battery drain may occur in the following situations:
  - If you attach metallic stickers on the antenna area of the device
  - If you attach a device cover made with metallic material to the device
  - If you cover the device's antenna area with your hands or other objects while using certain features, such as calls or the mobile data connection

• Using a Samsung-approved screen protector is recommended. Unapproved screen protectors may cause the sensors to malfunction.

• Do not cover the proximity sensor area with screen accessories, such as a screen protector or stickers. Doing so may cause the sensor to malfunction.

• The colours on the Edge screen may look different depending on your viewing position.
## Keys

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<th>Key</th>
<th>Function</th>
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<td>✅</td>
<td>• Press and hold to turn the device on or off.</td>
</tr>
<tr>
<td></td>
<td>• Press to turn on or lock the screen.</td>
</tr>
<tr>
<td>📞</td>
<td>• Tap to open the list of recent apps.</td>
</tr>
<tr>
<td>🏡</td>
<td>• Press to turn on the screen while the screen is locked.</td>
</tr>
<tr>
<td></td>
<td>• Press to return to the Home screen.</td>
</tr>
<tr>
<td></td>
<td>• Press and hold to launch <strong>Google Assistant</strong>.</td>
</tr>
<tr>
<td>⬅️</td>
<td>• Tap to return to the previous screen.</td>
</tr>
<tr>
<td></td>
<td>• Tap and hold to access additional options for the current screen.</td>
</tr>
<tr>
<td>🎧</td>
<td>• Press to adjust the device volume.</td>
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**Battery**

**Charging the battery**

Charge the battery before using it for the first time or when it has been unused for extended periods.

⚠️ Use only Samsung-approved chargers, batteries, and cables. Unapproved chargers or cables can cause the battery to explode or damage the device.

⚠️ Connecting the charger improperly may cause serious damage to the device. Any damage caused by misuse is not covered by the warranty.

 homosexually, unplug the charger when not in use. The charger does not have a power switch, so you must unplug the charger from the electric socket when not in use to avoid wasting power. The charger should remain close to the electric socket and easily accessible while charging.

1. Connect the USB cable to the USB power adaptor, and plug the USB cable into the device’s multipurpose jack.

![USB cable connected to device](image)

2. Plug the USB power adaptor into an electric socket.

3. After fully charging, disconnect the device from the charger. First unplug the charger from the device, and then unplug it from the electric socket.
Viewing the estimated charging time

While charging, launch the Settings app and tap Device maintenance → Battery.

The actual charging time may vary depending on the status of your device and the charging conditions. The estimated charging time may not be displayed when you charge the device in very cold or very hot conditions.

Reducing the battery consumption

Your device provides various options that help you conserve battery power.

- Optimise the device using the device maintenance feature.
- When you are not using the device, turn off the screen by pressing the Power key.
- Activate power saving mode.
- Close unnecessary apps.
- Deactivate the Bluetooth feature when not in use.
- Deactivate the Wi-Fi feature when not in use.
- Deactivate auto-syncing of apps that need to be synced, such as emails.
- Decrease the backlight time.
- Decrease the screen brightness.

Battery charging tips and precautions

- When the battery power is low, the battery icon appears empty.
- If the battery is completely discharged, the device cannot be turned on immediately when the charger is connected. Allow a depleted battery to charge for a few minutes before turning on the device.
- If you use multiple apps at once, network apps, or apps that need a connection to another device, the battery will drain quickly. To avoid losing power during a data transfer, always use these apps after fully charging the battery.
• Using a power source other than the charger, such as a computer, may result in a slower charging speed due to a lower electric current.

• The device can be used while it is charging, but it may take longer to fully charge the battery.

• If the device receives an unstable power supply while charging, the touchscreen may not function. If this happens, unplug the charger from the device.

• While charging, the device and the charger may heat up. This is normal and should not affect the device’s lifespan or performance. If the battery gets hotter than usual, the charger may stop charging.

• If you charge the device while the multipurpose jack is wet, the device may be damaged. Thoroughly dry the multipurpose jack before charging the device.

• If the device is not charging properly, take the device and the charger to a Samsung Service Centre.

**Fast charging**

The device has a built-in fast charging feature. You can charge the battery more quickly while the device or its screen is turned off.

**About Fast charging**

• Fast charging uses battery charging technology that charges the battery faster by increasing the charging power. The device supports Samsung’s Adaptive fast charging feature and Qualcomm Quick Charge 2.0.

• To use Fast charging on your device, connect it to a battery charger that supports Adaptive fast charging or Quick Charge 2.0.
Increasing the charging speed

To increase the charging speed, turn the device or its screen off when you charge the battery. While charging the battery when the device is turned off, the ⚡️ icon appears on the screen.

If the fast charging feature is not activated, launch the Settings app, tap Device maintenance → Battery → Advanced settings, and then tap the Fast cable charging switch to activate it.

- You cannot use the built-in fast charging feature when you charge the battery using a standard battery charger.
- If the device heats up or the ambient air temperature rises, the charging speed may decrease automatically. This is a normal operating condition to prevent damage to the device.

Wireless charging

The device has a built-in wireless charging coil. You can charge the battery using a wireless charger (sold separately).

Fast wireless charging

You can charge your device faster using the fast wireless charging feature. To use this feature, you must use a charger and components that support the fast wireless charging feature.

A fan inside the charger may produce noise during fast wireless charging. To reduce the fan noise, you must deactivate the fast wireless charging feature. The on/off option will be added in your device's settings menu when you first place it on the charger. Launch the Settings app, tap Device maintenance → Battery → Advanced settings, and then tap the Fast wireless charging switch to deactivate it. Deactivating this feature will reduce noise, but may result in slower charging times.
Charging the battery

1. Place the centre of the device’s back on the centre of the wireless charger. The estimated charging time will appear on the screen. The actual charging time may vary depending on the charging conditions.

2. After fully charging, disconnect the device from the wireless charger.

- Do not place the device on the wireless charger with a credit card or radio-frequency identification (RFID) card (such as a transportation card or a key card) placed between the back of the device and the device cover.
- Do not place the device on the wireless charger when conductive materials, such as metal objects and magnets, are placed between the device and the wireless charger.

The device may not charge properly or may overheat, or the device and the cards may be damaged.

- If you use the wireless charger in areas with weak network signals, you may lose network reception.
- Use Samsung-approved wireless chargers. If you use other wireless chargers, the battery may not charge properly.
**Power saving mode**

Activate power saving mode to extend the battery’s usage time.

1. Launch the **Settings** app and tap **Device maintenance → Battery → MID**.
2. Tap **DETAILS** to change the power saving settings before entering power saving mode.
3. Tap **APPLY**.

**Maximum power saving mode**

In maximum power saving mode, the device decreases battery consumption by applying the dark theme and limiting the apps and features available. Network connections, except for the mobile network, will be deactivated.

1. Launch the **Settings** app and tap **Device maintenance → Battery → MAX**.
2. Tap **DETAILS** to change the power saving settings before entering maximum power saving mode.
3. Tap **APPLY**.

After entering maximum power saving mode, on the Home screen, tap 📢 → **Edit** and select an app to use. To remove apps, tap 📢 → Edit and select an app with 🗑️.

To deactivate maximum power saving mode, tap 📢 → **Turn off Maximum power saving mode**.

The estimated battery usage time may vary depending on your device settings and operating conditions.
SIM or USIM card (nano-SIM card)

Installing the SIM or USIM card

Insert the SIM or USIM card provided by the mobile telephone service provider.

⚠️ Use caution not to lose or let others use the SIM or USIM card. Samsung is not responsible for any damages or inconveniences caused by lost or stolen cards.

- **Dual SIM models**: In some areas, data transfer speeds may be slower if two SIM cards are inserted in the device than when one SIM card is inserted.
- Some LTE services may not be available depending on the service provider. For more information about service availability, contact your service provider.

▶ Single SIM models:
**Dual SIM models:**

1. Insert the ejection pin into the hole on the tray to loosen the tray.

   - Ensure that the ejection pin is perpendicular to the hole. Otherwise, the device may be damaged.
2 Pull out the tray gently from the tray slot.

3 ► **Single SIM models**: Place the SIM or USIM card on the tray 1 with the gold-coloured contacts facing downwards.
   - ► **Dual SIM models**: Place the SIM or USIM card on the tray with the gold-coloured contacts facing downwards.

   Place the primary SIM or USIM card on the tray 1 (1) and the secondary SIM or USIM card on the tray 2 (2).

4 Gently press the SIM or USIM card into the tray to secure it.
   - If the card is not fixed firmly into the tray, the SIM card may leave or fall out of the tray.

5 Insert the tray back into the tray slot.
   - If you insert the tray into your device while the tray is wet, your device may be damaged. Always make sure the tray is dry.
   - Fully insert the tray into the tray slot to prevent liquid from entering your device.
Correct card installation

► Single SIM models:

- Use only a nano-SIM card.
- You cannot insert a nano-SIM card and a microSD card in tray 2 at the same time.
Removing the SIM or USIM card

1. Insert the ejection pin into the hole on the tray to loosen the tray.
2. Pull out the tray gently from the tray slot.
3. Remove the SIM or USIM card.
   ◼ Single SIM models:
   ▶ Dual SIM models:

4. Insert the tray back into the tray slot.
Using dual SIM or USIM cards (dual SIM models)

If you insert two SIM or USIM cards, you can have two phone numbers or service providers for a single device.

Activating SIM or USIM cards

Launch the Settings app and tap Connections → SIM card manager. Select a SIM or USIM card and tap the switch to activate it.

Customising SIM or USIM cards

Launch the Settings app, tap Connections → SIM card manager, and then select a SIM or USIM card to access the following options:

- **Icon**: Change the icon of the SIM or USIM card.
- **Name**: Change the display name of the SIM or USIM card.
- **Network mode**: Select a network type to use with the SIM or USIM card.

Setting preferred SIM or USIM cards

When two cards are activated, you can assign voice calls, messaging, and data services to specific cards.

Launch the Settings app, tap Connections → SIM card manager, and then set the feature preferences for your cards in PREFERRED SIM CARD.
Memory card (microSD card)

Installing a memory card

Your device's memory card capacity may vary from other models and some memory cards may not be compatible with your device depending on the memory card manufacturer and type. To view your device's maximum memory card capacity, refer to the Samsung website.

- Some memory cards may not be fully compatible with the device. Using an incompatible card may damage the device or the memory card, or corrupt the data stored in it.

- Use caution to insert the memory card right-side up.

- The device supports the FAT and the exFAT file systems for memory cards. When inserting a card formatted in a different file system, the device will ask to reformat the card or will not recognise the card. If the device does not recognise your memory card, format it on your computer.

- Frequent writing and erasing of data shortens the lifespan of memory cards.

- When inserting a memory card into the device, the memory card’s file directory appears in the My Files → SD card folder.
1 Insert the ejection pin into the hole on the tray to loosen the tray.

⚠️ Ensure that the ejection pin is perpendicular to the hole. Otherwise, the device may be damaged.

2 Pull out the tray gently from the tray slot.

⚠️ When you remove the tray from the device, the mobile data connection will be disabled.
3 Place a memory card on the tray 2 with the gold-coloured contacts facing downwards.

4 Gently press the memory card into the tray to secure it.

5 Insert the tray back into the tray slot.

- If you insert the tray into your device while the tray is wet, your device may be damaged. Always make sure the tray is dry.
- Fully insert the tray into the tray slot to prevent liquid from entering your device.

Removing the memory card

Before removing the memory card, first unmount it for safe removal.
Launch the Settings app and tap Device maintenance → Storage → Storage settings → SD card → UNMOUNT.

1 Insert the ejection pin into the hole on the tray to loosen the tray.

2 Pull out the tray gently from the tray slot.

3 Remove the memory card.

4 Insert the tray back into the tray slot.

Do not remove the memory card while the device is transferring or accessing information. Doing so can cause data to be lost or corrupted or damage to the memory card or device. Samsung is not responsible for losses that result from the misuse of damaged memory cards, including the loss of data.
Formatting the memory card

A memory card formatted on a computer may not be compatible with the device. Format the memory card on the device.

Launch the Settings app and tap Device maintenance → Storage → Storage settings → SD card → Format.

Before formatting the memory card, remember to make backup copies of all important data stored in the memory card. The manufacturer’s warranty does not cover loss of data resulting from user actions.

USB connector

With the supplied USB connector (On-The-Go Adaptor), you can transfer data from other mobile devices or connect USB peripheral devices, such as a mouse and keyboard, to your device.

Use only the USB connector supplied with the device.

Transferring data from your previous device

You can connect your previous device to your device with the USB connector and a USB cable to easily and quickly transfer data. Refer to Transferring data using a USB connector for more information.
Connecting a USB peripheral device

Connect the USB peripheral device to the USB connector and plug the USB connector into the multipurpose jack of your device.

Some USB peripheral devices may not be compatible with your device.

Turning the device on and off

Press and hold the Power key for a few seconds to turn on the device.
When you turn on your device for the first time or after performing a data reset, follow the on-screen instructions to set up your device.
To turn off the device, press and hold the Power key, and then tap **Power off**.

Follow all posted warnings and directions from authorised personnel in areas where the use of wireless devices is restricted, such as aeroplanes and hospitals.

Restarting the device

If your device is frozen and unresponsive, press and hold the Power key and the Volume Down key simultaneously for more than 7 seconds to restart it.
Controlling the touchscreen

- Do not allow the touchscreen to come into contact with other electrical devices. Electrostatic discharges can cause the touchscreen to malfunction.
- To avoid damaging the touchscreen, do not tap it with anything sharp or apply excessive pressure to it with your fingertips.
- Leaving the touchscreen idle for extended periods may result in afterimages (screen burn-in) or ghosting. Turn off the touchscreen when you do not use the device.
- The device may not recognise touch inputs close to the edges of the screen, which are outside of the touch input area.
- It is recommended to use fingers when you use the touchscreen.

Tapping

To open an app, to select a menu item, to press an on-screen button, or to enter a character using the keyboard on the screen, tap it with your finger.
Tapping and holding
Tap and hold an item or the screen for more than 2 seconds to access available options.

Dragging
To move an item, tap and hold it and drag it to the target position.

Double-tapping
Double-tap on a webpage or image to zoom in. Double-tap again to return.
Swiping
Swipe to the left or right on the Home screen or the Apps screen to view other panels. Swipe upwards or downwards to scroll through a webpage or a list of items, such as contacts.

Spreading and pinching
Spread two fingers apart on a webpage, map, or image to zoom in a part. Pinch to zoom out.
Home screen

The Home screen is the starting point for accessing all of the device's features. It displays widgets, shortcuts to apps, and more.

To view other panels, swipe to the left or right.

The Home screen may appear differently depending on the region or service provider.
Home screen options

On the Home screen, tap and hold an empty area, or pinch your fingers together to access the available options. Customise the Home screen by adding, deleting, or rearranging Home screen panels. You can also set the Home screen wallpaper, add widgets to the Home screen, and more.

- **Wallpapers**: Change the wallpaper settings for the Home screen and the locked screen.
- **Themes**: Change the device’s theme. Visual elements of interface, such as colours, icons, and wallpapers will change depending on the selected theme.
- **Widgets**: Add widgets to the Home screen. Widgets are small apps that launch specific app functions to provide information and convenient access on your Home screen.
- **Home screen settings**: Change the size of the grid to display more or fewer items on the Home screen and more.

Adding items

To add a shortcut to an app on the Home screen, tap and hold an item on the Apps screen, and then drag it to the top of the screen. A shortcut to the app will be added on the Home screen.

To add widgets, tap and hold an empty area on the Home screen, tap **Widgets**, tap and hold a widget, and then drag it to the Home screen.
Moving items
Tap and hold an item, and then drag it to a new location. To move the item to another panel, drag it to the side of the screen.
You can also move frequently used apps to the shortcuts area at the bottom of the Home screen.

Removing items
Tap and hold an item, and then tap Remove from Home or Remove from Home screen.

Creating folders
Create folders and gather similar apps to quickly access and launch apps.

1 On the Home screen, tap and hold an app, and then drag it over another app.

2 Drop the app when a folder frame appears around the apps.
   A new folder containing the selected apps will be created.
3 Tap **Enter folder name** and enter a folder name.

To change the folder colour, tap 🔄.

To add more apps to the folder, tap **ADD APPS**, tick the apps, and then tap **ADD**. You can also add an app by dragging it to the folder on the Home screen.

To move apps from a folder to the Home screen, tap the folder, and then drag an app to the top of the screen.

To delete apps in a folder, tap the folder, tap and hold the app you want to delete, and then tap **Remove from Home**.

**Managing panels**

On the Home screen, tap and hold an empty area to add, move, or remove a panel.

To add a panel, swipe to the left, and then tap ↙.

To move a panel, tap and hold a panel preview, and then drag it to a new location.

To remove a panel, tap 🗑️ on the panel.

To set a panel as the main Home screen, tap ⏰.

**Using quick options**

On the Home screen, tap and hold an app icon or folder to quickly access options.
Apps screen

The Apps screen displays icons for all apps, including newly installed apps. On the Home screen, swipe upwards or downwards to open the Apps screen. To return to the Home screen, swipe upwards or downwards on the Apps screen. Alternatively, tap the Home key or the Back key.

If you add the Apps button on the Home screen, you can open the Apps screen by tapping the button. On the Home screen, tap and hold an empty area and tap Home screen settings → Apps button → Show Apps button → APPLY. The Apps button will be added at the bottom of the Home screen.
Moving items

This feature may not be available depending on the region or service provider.

Tap and hold an item, and then drag it to a new location. To move the item to another panel, drag it to the side of the screen.

Creating folders

Create folders and gather similar apps to quickly access and launch apps you want.

This feature may not be available depending on the region or service provider.

1. On the Apps screen, tap and hold an app, and then drag it over another app.
2. Drop the app when a folder frame appears around the apps.
   A new folder containing the selected apps will be created.

3. Tap **Enter folder name** and enter a folder name.
   
   To change the folder colour, tap 🌐.
   
   To add more apps to the folder, tap **ADD APPS**, tick the apps, and then tap ADD. You can also add an app by dragging it to the folder on the Apps screen.

To delete a folder, tap and hold the folder, and then tap **Delete folder**. Only the folder will be deleted. The folder’s apps will be relocated to the Apps screen.
Rearranging items
You can rearrange items in alphabetical order on the Apps screen.
On the Apps screen, tap → Sort → Alphabetical order.

Searching for items
You can search for apps on the Apps screen or from Galaxy Apps or Play Store.
On the Apps screen, enter characters in the search field. The device will search for and display the items containing the characters you entered.

Indicator icons
Indicator icons appear on the status bar at the top of the screen. The icons listed in the table below are most common.

The status bar may not appear at the top of the screen in some apps. To display the status bar, drag down from the top of the screen.

<table>
<thead>
<tr>
<th>Icon</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>☎</td>
<td>No signal</td>
</tr>
<tr>
<td>📰</td>
<td>Signal strength</td>
</tr>
<tr>
<td>🌐</td>
<td>Roaming (outside of normal service area)</td>
</tr>
<tr>
<td>🔐 / 🔑</td>
<td>Preferred SIM or USIM card for calls (dual SIM models)</td>
</tr>
<tr>
<td>🌐</td>
<td>GPRS network connected</td>
</tr>
<tr>
<td>🌐</td>
<td>EDGE network connected</td>
</tr>
<tr>
<td>🌐</td>
<td>UMTS network connected</td>
</tr>
<tr>
<td>🌐</td>
<td>HSDPA network connected</td>
</tr>
<tr>
<td>🌐</td>
<td>HSPA+ network connected</td>
</tr>
<tr>
<td>🌐 / 🌐</td>
<td>LTE network connected (LTE-enabled models)</td>
</tr>
<tr>
<td>🌐</td>
<td>Wi-Fi connected</td>
</tr>
<tr>
<td>🌐</td>
<td>Bluetooth feature activated</td>
</tr>
</tbody>
</table>
### Basics

<table>
<thead>
<tr>
<th>Icon</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>📍</td>
<td>Location services being used</td>
</tr>
<tr>
<td>📞</td>
<td>Call in progress</td>
</tr>
<tr>
<td>📧</td>
<td>Missed call</td>
</tr>
<tr>
<td>📩</td>
<td>New text or multimedia message</td>
</tr>
<tr>
<td>⌚</td>
<td>Alarm activated</td>
</tr>
<tr>
<td>🎤</td>
<td>Mute mode activated</td>
</tr>
<tr>
<td>🌵</td>
<td>Vibration mode activated</td>
</tr>
<tr>
<td>✈️</td>
<td>Flight mode activated</td>
</tr>
<tr>
<td>🚨</td>
<td>Error occurred or caution required</td>
</tr>
<tr>
<td>⚒️</td>
<td>Battery charging</td>
</tr>
<tr>
<td>🍃</td>
<td>Battery power level</td>
</tr>
</tbody>
</table>

### Lock screen

Pressing the Power key turns off the screen and locks it. Also, the screen turns off and automatically locks if the device is not used for a specified period.

The screen is locked with **Swipe**, the default screen lock method.

Press the Power key or the Home key and swipe in any direction to unlock the screen.
To change the screen lock method, launch the **Settings** app, tap **Lock screen and security** → **Screen lock type**, and then select a method.

When you set a pattern, PIN, password, or fingerprint for the screen lock method, you can protect your personal information by preventing others from accessing your device. After setting the screen lock method, the device will require an unlock code whenever unlocking it.

- **Swipe**: Swipe in any direction on the screen to unlock it.
- **Pattern**: Draw a pattern with four or more dots to unlock the screen.
- **PIN**: Enter a PIN with at least four numbers to unlock the screen.
- **Password**: Enter a password with at least four characters, numbers, or symbols to unlock the screen.
- **None**: Do not set a screen lock method.
- **Fingerprints**: Register your fingerprints to unlock the screen. Refer to **Fingerprint recognition** for more information.

You can set your device to perform a factory data reset if you enter the unlock code incorrectly several times in a row and reach the attempt limit. Launch the **Settings** app, tap **Lock screen and security** → **Secure lock settings**, and then tap the **Auto factory reset** switch to activate it.
**Edge screen**

**Introduction**

You can quickly access your favourite apps, features, and contacts from various Edge panels. Even when the screen is turned off, you can view information, such as news, missed calls, and message alerts on the Edge screen.

**Using the Edge panels**

Drag the Edge panel handle towards the centre of the screen. Then, swipe to the left or right to switch between the Edge panels.

If the Edge panel handle is not visible, launch the **Settings** app, tap **Display → Edge screen**, and then tap the **Edge panels** switch to activate it.
Editing the Edge panels
Select panels to display on the Edge screen or edit them.

1. Drag the Edge panel handle towards the centre of the panel.
2. Tap 📲 to open the Edge panel settings screen.
3. Tick Edge panels to display.
   - To edit a panel, tap EDIT.
   - To download additional panels, tap DOWNLOAD.
   - To rearrange panels, tap → Reorder and drag ← → to another location.

Setting the Edge panel handle
You can change the location, size, or transparency of the handle.
Drag the Edge panel handle towards the centre of the screen. Then, tap 📲 → → Edge panel handle.

Apps edge
Quickly launch frequently used apps.

1. Drag the Edge panel handle towards the centre of the screen.
2. Swipe to the left or right to open the Apps edge panel.
3. Select an app to launch it.
Editing the Apps edge panel

- To add an app, tap on the panel and tap an app from the apps list.
- To create a folder on the panel, tap on the panel, tap and hold an app from the apps list, and then drag it over another app on the Apps edge panel. Drop the app when a folder frame appears around the apps.
- To delete an app, tap and hold an app on the panel and drag it to Remove at the top of the panel.
- To change the order of apps, tap and hold an app and drag it to another location.

You can also edit the Apps edge panel by tapping on the panel and then tapping EDIT under the Apps edge.

People edge

Add favourite contacts to the People edge panel to quickly contact them and view notifications received from them.

1. Drag the Edge panel handle towards the centre of the screen.

2. Swipe to the left or right to open the People edge panel.

Adding contacts to the People edge panel

Add frequently used contacts to the People edge panel and set them as your priority contacts.

Tap and select a contact from your favourites list, or tap SELECT CONTACTS, select contacts, and then tap DONE.

Only contacts saved in Contacts can be added to the People edge panel.
Editing the People edge panel

- To change the order of contacts, tap and hold a contact icon and drag it to another location.
- To delete a contact, tap and hold a contact icon and drag it to Remove at the top of the screen.

You can also edit the People edge panel by tapping 📱 and then tapping EDIT under the People edge.

Contacting people from the People edge panel

Open the People edge panel and tap a contact. The communication buttons will appear on the screen. Tap the desired button to call or send a message to the contact.
**Edge lighting**

The Edge screen lights up when you receive a call or notification while the device’s screen is facing downwards.

Launch the Settings app, tap Display → Edge screen, and then tap the Edge lighting switch to activate it.

You can reject incoming calls using custom rejection messages. While the device’s screen is facing downwards, hold your finger on the sensor on the back of the device for two seconds to reject calls.

Launch the Settings app, tap Display → Edge screen → Edge lighting → Quick reply, and then tap the switch to activate it.

To edit the default rejection message, tap the message text under QUICK REPLY MESSAGE.
Edge feeds
Real-time news, missed calls, message alerts, and other information can be displayed on the Edge screen when the screen is turned off.

Setting Edge feeds
Set information to display on the Edge screen.

1. Launch the Settings app and tap Display → Edge screen.
2. Tap Edge feeds and tap the switch to activate it.
3. Tick items to display.
   
   - To edit a feed, tap EDIT.
   - To download additional items, tap DOWNLOAD.
   - To rearrange items, tap → Reorder. Then, tap and hold ← → on an item and drag it to another location.

Viewing Edge feeds

1. With the screen turned off, swipe upwards then downwards or vice versa on the Edge screen to turn it on.
2 Swipe to the left or right on the Edge screen to view the Edge feeds.

- The Edge screen turns off if the device is not used for a specified period. To change the Edge screen's time-out setting, launch the Settings app and tap Display → Edge screen → Edge feeds → Edge feed timeout.
- When Edge feeds are active, you cannot use the Always On Display feature.
Always On Display

You can always view information, such as the clock or calendar, or control music playback on the screen when it is turned off.

You can also check notifications for new messages or missed calls on the screen.

- The brightness of the Always On Display may change automatically depending on the lighting conditions.
- If the sensor at the top of the device is covered for a certain period, the Always On Display will turn off.

Opening notifications when the screen is off

When you receive message, missed call, or app notifications, notification icons will appear on the screen even when it is turned off. Double-tap a notification icon to view its notification.

If the screen is locked, you must unlock it to view notifications.
**Controlling music playback when the screen is off**

You can control music playback when the screen is off, without turning on the screen.

1. Launch the **Settings** app, tap **Lock screen and security** → **Clock and FaceWidgets** → **FaceWidgets**, and then tap the **Music Controller** switch to activate it.

2. To control music playback when the screen is off, double-tap the clock.

3. Swipe to the left or right on the clock to move to the music controller.

4. Tap the icons to control the playback.

**Changing the schedule for the Always On Display feature**

Launch the **Settings** app, tap **Lock screen and security** → **Always On Display** → **Set schedule** and set the start and end time.

To always display the Always On Display, tap the **Show always** switch to activate it.

**Deactivating the Always On Display feature**

Launch the **Settings** app, tap **Lock screen and security**, and then tap the **Always On Display** switch to deactivate it.
Notification panel

Using the notification panel

When you receive new notifications, such as messages or missed calls, indicator icons appear on the status bar. To see more information about the icons, open the notification panel and view the details.

To open the notification panel, drag the status bar downwards. To close the notification panel, swipe upwards on the screen.

You can open the notification panel, even on the locked screen.

You can use the following functions on the notification panel.

▶ Single SIM models:

- Quick setting buttons
- Tap a notification and perform various actions.
- Access the notification settings.
- Launch Settings.
- Clear all notifications.
Basics

► Dual SIM models:

Quick setting buttons
Launch Settings.
SIM and USIM card feature preferences. Tap to access the SIM card manager.
Clear all notifications.

Tap a notification and perform various actions.
Access the notification settings.

Using quick setting buttons
Tap quick setting buttons to activate certain features. Swipe downwards on the notification panel to view more buttons.

To change feature settings, tap the text under each button. To view more detailed settings, tap and hold a button.
To rearrange buttons, tap Button order, tap and hold a button, and then drag it to another location.
Entering text

Keyboard layout

A keyboard appears automatically when you enter text to send messages, create notes, and more.

- When the keyboard is opened for the first time, the keyboard setup screen will appear. Set the language, keyboard type, and keyboard settings and then tap START.
- Text entry is not supported in some languages. To enter text, you must change the input language to one of the supported languages.

Changing the input language

Tap 📜 → Languages and types → MANAGE INPUT LANGUAGES, and then select the languages to use. When you select two or more languages, you can switch between the input languages by swiping to the left or right on the space key.

Changing the keyboard layout

Tap 📜 → Languages and types, select a language, and then select a keyboard layout to use.

On 3x4 keyboard, a key has three or four characters. To enter a character, tap the corresponding key repeatedly until the desired character appears.
Additional keyboard functions

- 🤔: Predict words based on your input and show word suggestions. To return to the keyboard functions list, tap 🤔.
- 😄: Enter emoticons.
- 🎨: Attach stickers.
- 🎨: Attach animated GIFs.
- 🎤: Enter text by voice.

Change the voice input settings. Start or pause entering text by voice.

- 🎤: Change the keyboard settings.
- 🔍 → 📝: Add an item from the clipboard.
- 🔍 → 📝: Change the keyboard for one-handed operation.

Copying and pasting

1. Tap and hold over text.

2. Drag 📝 or 📝 to select the desired text, or tap Select all to select all text.

3. Tap Copy or Cut.
   The selected text is copied to the clipboard.

4. Tap and hold where the text is to be inserted and tap Paste.
   To paste text that you have previously copied, tap Clipboard and select the text.
**Dictionary**

Look up definitions for words while using certain features, such as when browsing webpages.

1 Tap and hold over a word that you want to look up.
   If the word you want to look up is not selected, drag 🖼 or 🖋 to select the desired text.

2 Tap More → Dictionary on the options list.
   If a dictionary is not preinstalled on the device, tap Move to Manage dictionaries → 📚 next to a dictionary to download it.

3 View the definition in the dictionary pop-up window.
   To switch to the full screen view, tap 📚. Tap the definition on the screen to view more definitions. In the detailed view, tap ⭐ to add the word to your favourite words list or tap Search Web to use the word as a search term.

**Screen capture**

Capture a screenshot while using the device and write on, draw on, crop, or share the captured screen. You can capture the current screen and scrollable area.

**Capturing a screenshot**

Use the following methods to capture a screenshot. Captured screenshots will be saved in Gallery.

- Key capture: Press and hold the Home key and the Power key simultaneously.
- Swipe capture: Swipe your hand to the left or right across the screen.

- It is not possible to capture a screenshot while using some apps and features.
- If capturing a screenshot by swiping is not activated, launch the Settings app, tap Advanced features, and then tap the Palm swipe to capture switch to activate it.
After capturing a screenshot, use the following options on the toolbar at the bottom of the screen:

- **Scroll capture**: Capture content that continues across multiple screens, such as a webpage. When you tap **Scroll capture**, the screen will automatically scroll down and more content will be captured.
- **Draw**: Write or draw on the screenshot.
- **Crop**: Crop a portion from the screenshot. Only the cropped area will be saved in **Gallery**.
- **Share**: Share the screenshot with others.

If the options are not visible on the captured screen, launch the **Settings** app, tap **Advanced features**, and then tap the **Smart capture** switch to activate it.

### Opening apps

On the Home screen or the Apps screen, select an app icon to open it.

To open an app from the list of recently used apps, tap the Recents key and select a recent app window.

### Closing an app

Tap the Recents key, and tap **X** or drag a recent app window to the left or right to close it. To close all running apps, tap **CLOSE ALL**.
Multi window

Introduction

Multi window lets you run two apps at the same time in the split screen view. You can also run multiple apps at the same time in the pop-up view.

Some apps may not support this feature.
Split screen view

1 Tap the Recents key to open the list of recently used apps.

2 Swipe upwards or downwards and tap on a recent app window. The selected app will launch in the upper window.

3 In the lower window, swipe upwards or downwards to select another app to launch. To launch apps not in the list of recently used apps, tap APP LIST and select an app.
Using additional options

Tap the bar between the app windows to access additional options.

- Add this app pair to the Home screen.
- Switch locations between app windows.
- Close the currently selected app.
- Switch the selected window to a pop-up view.

Adjusting the window size

Drag the bar between the app windows up or down to adjust the size of the windows.
Sharing text or images between windows

Drag and drop text or copied images from one window to another. Tap and hold an item in the selected window and drag it to a location in another window.

![Drag and drop image](image)

Some apps may not support this feature.

Minimising the split screen view

Press the Home key to minimise the split screen view. The icon will appear on the status bar. The app in the lower window will close and the app in the upper window will remain active in the minimised split screen view.

To close the minimised split screen view, tap ×.

Maximising a window

Tap an app window and drag the bar between the app windows to the top or bottom edge of the screen.
Pop-up view

1 Tap the Recents key to open the list of recently used apps.

2 Swipe upwards or downwards, tap and hold an app window, and then drag it to Drop here for pop-up view.

   The app screen will appear in the pop-up view.

Moving pop-up windows

To move a pop-up window, tap the window's toolbar and drag it to a new location.
Samsung account

Introduction

Your Samsung account is an integrated account service that allows you to use a variety of Samsung services provided by mobile devices, TVs, and the Samsung website. Once your Samsung account has been registered, you can use apps provided by Samsung, without signing in to your account.

Create your Samsung account with your email address.

To check the list of services that can be used with your Samsung account, visit account.samsung.com. For more information on Samsung accounts, launch the Settings app and tap Cloud and accounts → Accounts → Samsung account → Help.

Registering your Samsung account

Registering a new Samsung account

If you do not have a Samsung account, you should create one.

1. Launch the Settings app and tap Cloud and accounts → Accounts → Add account.
2. Tap Samsung account → CREATE ACCOUNT.
3. Follow the on-screen instructions to complete creating your account.

Registering an existing Samsung account

If you already have a Samsung account, register it to the device.

1. Launch the Settings app and tap Cloud and accounts → Accounts → Add account.
2. Tap Samsung account.
3 Enter your email address and password, and then tap SIGN IN.
   If you forget your account information, tap Find ID or Reset password. You can find your
   account information when you enter the required information.

4 Read and agree to the terms and conditions and tap AGREE.

5 Tap DONE to finish registering your Samsung account.

Removing your Samsung account

When you remove your registered Samsung account from the device, your data, such as
contacts or events, will also be removed.

1 Launch the Settings app and tap Cloud and accounts → Accounts.

2 Tap Samsung account → Remove account.

3 Tap REMOVE, enter your Samsung account password, and then tap REMOVE ACCOUNT.

Transferring data from your previous device

You can transfer contacts, images, and other data from a previous device to your device via
Smart Switch (wirelessly or using a USB connector) or Samsung Cloud.

- This feature may not be supported on some devices or computers.
  takes copyright seriously. Only transfer content that you own or have the right to
  transfer.

Smart Switch

Transfer data between mobile devices via Smart Switch. To use Smart Switch, launch the
Settings app and tap Cloud and accounts → Smart Switch. If you do not have the app,
download it from Galaxy Apps or Play Store.
Transferring data using a USB connector

You can connect your previous device to your device with the USB connector and a USB cable to easily and quickly transfer data.

1. Plug the USB connector into the multipurpose jack of your device.

2. Connect your device and the previous device using the previous device’s USB cable.

3. When the app selection pop-up window appears, tap Smart Switch → RECEIVE.

4. On the previous device, tap ALLOW.

Your device will recognise the previous device and a list of data you can transfer will appear.

5. Follow the on-screen instructions to transfer data from the previous device.

- Do not disconnect the USB cable or USB connector from the device when you are transferring files. Doing so may cause data loss or device damage.

- Transferring data increases the battery power consumption of your device. Ensure that your device is sufficiently charged before transferring data. If the battery power is low, data transfer may be interrupted.
Transferring data wirelessly via Wi-Fi Direct

Transfer data from your previous device to your device wirelessly via Wi-Fi Direct.

1. On the previous device, launch Smart Switch. If you do not have the app, download it from Galaxy Apps or Play Store.
2. On your device, launch the Settings app and tap Cloud and accounts → Smart Switch.
3. Place the devices near each other.
4. On the previous device, tap WIRELESS → SEND → CONNECT.
5. On your device, tap WIRELESS → RECEIVE and select the previous device type.
6. Follow the on-screen instructions to transfer data from your previous device.
Transferring backup data from a computer

Transfer data between your device and a computer. You must download the Smart Switch computer version app from www.samsung.com/smartswitch. Back up data from your previous device to a computer and import the data to your device.

1. On the computer, visit www.samsung.com/smartswitch to download Smart Switch.
2. On the computer, launch Smart Switch.
   - If your previous device is not a Samsung device, back up data to a computer using a program provided by the device’s manufacturer. Then, skip to the fifth step.
3. Connect your previous device to the computer using the USB cable.
4. On the computer, follow the on-screen instructions to back up data from the device. Then, disconnect your previous device from the computer.
5. Connect your device to the computer using the USB cable.
6. On the computer, follow the on-screen instructions to transfer data to your device.
**Samsung Cloud**

Back up data from your previous device to Samsung Cloud and restore the data to your new device. You must register and sign in to your Samsung account to use Samsung Cloud. Refer to Samsung account for more information.

**Backing up data**

1. On your previous device, sign in to your Samsung account.

2. Launch the Settings app, select the backup option, and back up your data.

   - If your device supports Samsung Cloud, launch the Settings app, tap Cloud and accounts → Samsung Cloud, select your device under BACKUP AND RESTORE, tap Back up, and then back up your data.
   - The data backup method may vary depending on your model.
   - Some data will not be backed up. To check which data will be backed up, launch the Settings app, tap Cloud and accounts → Samsung Cloud, select your device under BACKUP AND RESTORE, and then tap Back up.

**Restoring data**

1. On your new device, launch the Settings app and tap Cloud and accounts → Samsung Cloud.

2. Select your previous device under BACKUP AND RESTORE and tap Restore data.

3. Tick the data types you want to restore and tap RESTORE.
Syncing data
You can sync data saved in your devices with Samsung Cloud and access it from other devices.

1. On your new device, launch the Settings app and tap Cloud and accounts → Samsung Cloud.

2. Tap → Settings → Sync settings.

3. Tap the switches next to the items you want to sync with.

Checking data
You can check the saved items and used memory of your Samsung Cloud. Launch the Settings app and tap Cloud and accounts → Samsung Cloud.

- You can immediately check your used memory and saved items, such as GALLERY, SAMSUNG NOTES, and SAMSUNG CLOUD DRIVE. Tap each card and enter the next page. You can change the settings or check the saved data.
- You can check the backup data in your Samsung account by using the BACKUP AND RESTORE option. Select your device and tap Restore data.
Device and data management

Connecting the device to a computer for data transfer

Move audio, video, image, or other types of files from the device to the computer, or vice versa.

- Do not disconnect the USB cable from the device when you are transferring files. Doing so may cause data loss or device damage.
- The devices may not connect properly if they are connected via a USB hub. Directly connect the device to the computer’s USB port.

1. Connect the device to the computer using the USB cable.

2. Open the notification panel, and then tap Transferring media files via USB → Transfer files.
   If the computer cannot recognise your device, tap Transfer images.

3. Tap ALLOW to permit the computer to access your device’s data.
   When the computer recognises your device, the device will appear in My PC.

4. Transfer files between your device and the computer.

Updating the device

The device can be updated to the latest software.

Updating over the air

The device can be directly updated to the latest software by the firmware over-the-air (FOTA) service.

Launch the Settings app and tap Software update → Download updates manually.

When you tap the Download updates automatically switch to activate it, updates will be downloaded when the device is connected to a Wi-Fi network.
Updating with Smart Switch

Connect the device to a computer and update the device to the latest software.

1. On the computer, visit www.samsung.com/smartswitch to download and install Smart Switch.

2. On the computer, launch Smart Switch.

3. Connect the device to the computer using a USB cable.

4. If a software update is available, follow the on-screen instructions to update the device.

   - Do not turn off the computer or disconnect the USB cable while the device is updating.
   - While updating the device, do not connect other media devices to the computer. Doing so may interfere with the update process. Before updating, disconnect all other media devices from the computer.

Performing a data reset

Delete all settings and data on the device. Before performing a factory data reset, ensure you back up all important data stored on the device. Refer to Backup and restore for more information.

Launch the Settings app and tap General management → Reset → Factory data reset → RESET → DELETE ALL. The device automatically restarts.
Sharing features

Share content by using various sharing options. The following actions are an example of sharing images.

💡 You may incur additional charges when sharing files via the mobile network.

1. Launch the **Gallery** app and select an image.
2. Tap ⬇️ and select a sharing method, such as Bluetooth and email.

![Share options](image)

You can also use the following options:

- **Link Sharing**: Share large files. Upload files to the Samsung storage server and share them with others via a Web link or a code. To use this feature, your phone number must be verified.
- **Share to device**: Share content with nearby devices via Wi-Fi Direct or Bluetooth, or with Samsung Connect supported devices. You can also view your device’s displayed content on a large screen by connecting your device to a screen mirroring-enabled TV or monitor.

💡 When you have a communication or sharing history, the people you contacted will appear on the sharing options panel. To directly share content with them via the corresponding app, select a person’s icon. If the feature is not activated, launch the **Settings** app, tap **Advanced features**, and then tap the **Direct share** switch to activate it.
3 Follow the on-screen instructions to share the image with others.

When the image is sent to the recipients’ devices, a notification will appear on their devices. Tap the notification to view or download the image.

**Emergency mode**

You can switch the device to emergency mode to reduce battery consumption. Some apps and functions will be restricted. In emergency mode, you can make an emergency call, send your current location information to others, sound an emergency alarm, and more.

Press and hold the Power key, and then tap **Emergency mode**.

⚠️ The usage time left shows the time remaining before the battery power runs out. Usage time left may vary depending on your device settings and operating conditions.

**Deactivating emergency mode**

To deactivate emergency mode, tap ➠ **Turn off Emergency mode**. Alternatively, press and hold the Power key, and then tap **Emergency mode**.
Applications

Installing or uninstalling apps

Galaxy Apps
Purchase and download apps. You can download apps that are specialised for Samsung Galaxy devices.

Open the Samsung folder and launch the Galaxy Apps app.

This app may not be available depending on the region or service provider.

Installing apps
Browse apps by category or tap the search field to search for a keyword.
Select an app to view information about it. To download free apps, tap INSTALL. To purchase and download apps where charges apply, tap the price and follow the on-screen instructions.

To change the auto update settings, tap → Settings → Auto update apps, and then select an option.

Play Store
Purchase and download apps.
Launch the Play Store app.

Installing apps
Browse apps by category or search for apps by keyword.
Select an app to view information about it. To download free apps, tap INSTALL. To purchase and download apps where charges apply, tap the price and follow the on-screen instructions.

To change the auto update settings, tap → Settings → Auto-update apps, and then select an option.
Managing apps

Uninstalling or disabling apps
On the Home screen or the Apps screen, tap and hold an app and select an option.
• Disable: Disable selected default apps that cannot be uninstalled from the device.
• Uninstall: Uninstall downloaded apps.

Enabling apps
Launch the Settings app, tap Apps → Disabled, select an app, and then tap ENABLE.

Setting app permissions
For some apps to operate properly, they may need permission to access or use information on your device. When you open an app, a pop-up window may appear and request access to certain features or information. Tap ALLOW on the pop-up window to grant permissions to the app.
To view your app permission settings, launch the Settings app and tap Apps. Select an app and tap Permissions. You can view the app’s permissions list and change its permissions.
To view or change app permission settings by permission category, launch the Settings app and tap Apps → App permissions. Select an item and tap the switches next to apps to grant permissions.

If you do not grant permissions to apps, the basic features of the apps may not function properly.
Phone

Introduction
Make or answer voice and video calls.

Making calls

1. Launch the Phone app and enter a phone number.
   If the keypad does not appear on the screen, tap to open the keypad.

2. **Single SIM models:** Tap to make a voice call, or tap to make a video call.
► Dual SIM models: Tap 📞 or 📧 to make a voice call, or tap 🎥 to make a video call.

Create a new contact.

Preview the phone number.

Access additional options.

Add the number to an existing contact.

Delete a preceding character.

Hide the keypad.

Using speed dial

Set speed dial numbers to quickly make calls.

To set a number to speed dial, tap ➔ Speed dial numbers, select a speed dial number, and then add a phone number.

To make a call, tap and hold a speed dial number on the keypad. For speed dial numbers 10 and up, tap the first digit(s) of the number, and then tap and hold the last digit.

For example, if you set the number 123 as a speed dial number, tap 1, tap 2, and then tap and hold 3.

Making calls from the locked screen

On the locked screen, drag 📞 outside the large circle.

Making calls from call logs or contacts list

Tap RECENTS or CONTACTS, and then swipe to the right on a contact or a phone number to make a call.
Making an international call

1 Tap ☎️ to open the keypad if the keypad does not appear on the screen.

2 Tap and hold 0 until the + sign appears.

3 ► **Single SIM models**: Enter the country code, area code, and phone number, and then tap ✆.
   
   ► **Dual SIM models**: Enter the country code, area code, and phone number, and then tap ✆ or ✆.

Receiving calls

Answering a call

When a call comes in, drag ✆ outside the large circle.

Rejecting a call

When a call comes in, drag ☻ outside the large circle.

To send a message when rejecting an incoming call, drag the rejection message bar upwards.

To create various rejection messages, launch the **Phone** app, tap 📞 → **Settings** → Quick decline messages, enter a message, and then tap ☑.

Missed calls

If a call is missed, the ⌐ icon appears on the status bar. Open the notification panel to view the list of missed calls. Alternatively, launch the **Phone** app and tap **RECENTS** to view missed calls.
Blocking phone numbers

Block calls from specific numbers added to your block list.

1. Launch the Phone app and tap ☰ → Settings → Block numbers.

2. Tap ☑, tick contacts, and then tap DONE.
   
   To manually enter a number, tap Enter phone number, enter a phone number, and then tap (+).

When blocked numbers try to contact you, you will not receive notifications. The calls will be logged in the call log.

You can also block incoming calls from people that do not show their caller ID. Tap the Block unknown callers switch to activate the feature.

Options during calls

During a voice call

The following actions are available:

• ☰: Access additional options.
• Add call: Dial a second call.
• Extra volume: Increase the volume.
• Bluetooth: Switch to a Bluetooth headset if it is connected to the device.
• Speaker: Activate or deactivate the speakerphone. When using the speakerphone, speak into the microphone at the top of the device and keep the device away from your ears.
• Mute: Turn off the microphone so that the other party cannot hear you.
• Keypad / Hide: Open or close the keypad.
• ☐: End the current call.
During a video call

Tap the screen to use the following options:

- •: Access additional options.
- Camera: Turn off the camera so that the other party cannot see you.
- Switch: Switch between the front and rear cameras.
- •: End the current call.
- Mute: Turn off the microphone so that the other party cannot hear you.
- Speaker: Activate or deactivate the speakerphone. When using the speakerphone, speak into the microphone at the bottom of the device and keep the device away from your ears.

Contacts

Introduction

Create new contacts or manage contacts on the device.

Adding contacts

Creating a new contact

1. Launch the Contacts app, tap +, and then select a storage location.
2 Enter contact information.

Select a storage location.

Add an image.

Enter contact information.

Open more information fields.

Scan contact information from a business card.

Depending on the selected storage location, the types of information you can save may vary.

3 Tap SAVE.

Adding a phone number to Contacts from the keypad

1 Launch the Phone app.

2 Enter the number.
   If the keypad does not appear on the screen, tap 📱 to open the keypad.

3 Tap CREATE CONTACT to create a new contact, or tap UPDATE EXISTING to add the number to an existing contact.
Adding a phone number to Contacts from the calls list

1. Launch the Phone app and tap RECENTS.
2. Tap a caller’s image, or tap a phone number → Details.
3. Tap Create contact to create a new contact, or tap Update existing to add the number to an existing contact.

Importing contacts

Add contacts by importing them from other storages to your device.

1. Launch the Contacts app and tap → Manage contacts → Import/Export contacts → IMPORT.
2. Select a storage location to save contacts to.
3. Tick VCF files or contacts to import and tap DONE.
4. Select a storage location to save contacts to and tap IMPORT.

Syncing contacts with your web accounts

Sync your device contacts with online contacts saved in your web accounts, such as your Samsung account.

1. Launch the Settings app, tap Cloud and accounts → Accounts, and select the account to sync with.
2. Tap Sync account and tap the Sync Contacts switch to activate it.
   For the Samsung account, tap → Sync settings and tap the Contacts switch to activate it.
Searching for contacts

Launch the Contacts app.

Use one of the following search methods:

• Scroll up or down the contacts list.
• Drag a finger along the index at the right side of the contacts list to scroll through it quickly.
• Tap the search field at the top of the contacts list and enter search criteria.

Tap the contact’s image, or tap the contact’s name → Details. Then take one of the following actions:

• ★: Add to favourite contacts.
• ✆/ ✉️: Make a voice or video call.
• ✉️: Compose a message.
• ✉️: Compose an email.

Sharing profile

Share your profile information, such as your photo and status message, with others using the profile sharing feature.

- This feature may not be available depending on the region or service provider.
- This feature is only available for contacts who have activated the profile sharing feature on their device.

Launch the Contacts app, tap your profile → → Profile sharing, and then tap the switch to activate it. To use this feature, your phone number must be verified. You can view your contacts’ updated profile information in Contacts.

To set a contact group to share your profile with, tap Share with and select an option.
**Sharing contacts**

You can share contacts with others by using various sharing options.

1. Launch the **Contacts** app.
2. Tap → **Share**.
3. Tick contacts and tap **SHARE**.
4. Select a sharing method.

**Merging duplicate contacts**

When you import contacts from other storages, or sync contacts to other accounts, your contacts list may include duplicate contacts. Merge duplicate contacts into one to streamline your contacts list.

1. Launch the **Contacts** app and tap → **Manage contacts** → **Merge contacts**.
2. Tick contacts and tap **MERGE**.

**Deleting contacts**

1. Launch the **Contacts** app and tap → **Delete**.
2. Tick contacts and tap **DELETE**.

To delete contacts one by one, open the contacts list and tap a contact’s image or tap a contact’s name → **Details**. Then tap → **Delete**.
Messages

Introduction
Send and view messages by conversation.

Sending messages

You may incur additional charges for sending messages when you are roaming.

1. Launch the Messages app and tap ☰.
2. Add recipients and tap COMPOSE.
3. Enter a message.

► Single SIM models:

- Access additional options.
- Add recipients from the contacts list.
- Send the message.
- Enter emoticons.
- Enter a message.
- Attach files.
- Edit recipients.
Applications

► Dual SIM models:

![NEW MESSAGE](image)

- Access additional options.
- Add recipients from the contacts list.
- Select a SIM or USIM card.
- Enter a message.
- Enter emoticons.
- Attach files.
- Edit recipients.

4  ► Single SIM models: Tap 🔄 to send the message.
   ► Dual SIM models: Tap 🔄 or 🔄 to send the message.

Viewing messages

Messages are grouped into message threads by contact.

⚠️ You may incur additional charges for receiving messages when you are roaming.

1 Launch the Messages app and tap CONVERSATIONS.

2 On the messages list, select a contact.

3 View your conversation.
   ► Single SIM models: To reply to the message, enter a message and tap 🔄.
   ► Dual SIM models: To reply to the message, enter a message and tap 🔄 or 🔄.
**Blocking unwanted messages**

Block messages from specific numbers added to your block list.

1. Launch the **Messages** app and tap → **Settings** → **Block messages** → **Block numbers**.

2. Tap **INBOX** or **CONTACTS**, select a contact, and then tap +.
   
   To manually enter a number, tap **Enter number**, and then enter a phone number.

**Setting the message notification**

You can change notification sound, display options, and more.

1. Launch the **Messages** app, tap → **Settings** → **Notifications**, and then tap the switch to activate it.

2. Change the notification settings.

**Setting a message reminder**

You can set an alert at an interval to let you know that you have unchecked notifications.

If this feature is not activated, launch the **Settings** app, tap **Accessibility** → **Notification reminder**, and then tap the switch to activate it. Then, tap the **Messages** switch to activate it.
Internet

Introduction
Browse the Internet to search for information and bookmark your favourite webpages to access them conveniently.

Browsing webpages

1. Open the Samsung folder and launch the Internet app.
2. Tap the address field.
3. Enter the web address or a keyword, and then tap Go.

To view the toolbars, drag your finger downwards slightly on the screen.
To switch between tabs quickly, swipe to the left or right on the address field.
Using secret mode
In secret mode, you can separately manage open tabs, bookmarks, and saved pages. You can lock secret mode using a password and your fingerprint.

Activating secret mode
In the toolbar at the bottom of the screen, tap Tabs → TURN ON SECRET MODE. If you are using this feature for the first time, set whether to use a password for secret mode.

In secret mode, you cannot use some features, such as screen capture.

In secret mode, the device will change the colour of the toolbars.

Changing security settings
You can change your password or the lock method.
Tap → Settings → Privacy → Secret mode security → Change password. To set your registered fingerprint as the lock method along with the password, tap the Fingerprints switch to activate it. Refer to Fingerprint recognition for more information about using your fingerprints.

Deactivating secret mode
In the toolbar at the bottom of the screen, tap Tabs → TURN OFF SECRET MODE.
Email

Setting up email accounts
Set up an email account when opening Email for the first time.

1. Open the Samsung folder and launch the Email app.
2. Enter the email address and password, and then tap SIGN IN.
   To manually register an email account, tap MANUAL SETUP.
3. Follow the on-screen instructions to complete the setup.

To set up another email account, tap → Add account.
If you have more than one email account, you can set one as the default account. Tap → Set default account.

Sending emails

1. Tap to compose an email.
2. Add recipients and enter an email text.
3. Tap SEND to send the mail.

Reading emails

When Email is open, the device will automatically retrieve new emails. To manually retrieve emails, swipe downwards on the screen.
Tap an email on the screen to read it.

If email syncing is disabled, new emails cannot be retrieved. To enable email syncing, tap → your account name, and then tap the Sync account switch to activate it.
Camera

Introduction
Take photos and record videos using various modes and settings.

Camera etiquette
- Do not take photos or record videos of other people without their permission.
- Do not take photos or record videos where legally prohibited.
- Do not take photos or record videos in places where you may violate other people’s privacy.

Launching Camera
Use the following methods to launch Camera:
- Launch the Camera app.
- Press the Home key twice quickly.
- On the locked screen, drag outside the large circle.

- Some methods may not be available depending on the region or service provider.
- Some camera features are not available when you launch the Camera app from the locked screen or when the screen is turned off while the security features are activated.
Using swipe gestures

Quickly control the preview screen by swiping in different directions. You can change the shooting mode, switch between cameras, or apply filter effects.

Switching cameras

On the preview screen, swipe upwards or downwards to switch between cameras.

Viewing shooting modes

On the preview screen, swipe from the left to the right to open the shooting modes list.
Viewing filter effects

On the preview screen, swipe from the right to the left to open the filter effects list. You can apply a unique feel to your photos or videos.

This feature is only available in some shooting modes.

Basic shooting

Taking photos or recording videos

1. Tap the image on the preview screen where the camera should focus.

2. Tap 📷 to take a photo or tap 🎥 to record a video. To take a series of photos, tap and hold 📷.

   - Spread two fingers apart on the screen to zoom in, and pinch to zoom out.
   - To adjust the brightness of photos or videos, tap the screen. When the adjustment bar appears, drag 🎥 on the adjustment bar towards ☀️ or ☾.
   - To capture an image from the video while recording, tap 📷.
   - To change the focus while recording a video, tap where you want to focus. To focus on the centre of the screen, tap 📷.
• The preview screen may vary depending on the shooting mode, which camera is being used, and model.
• The camera automatically shuts off when unused.
• Make sure that the lens is clean. Otherwise, the device may not work properly in some modes that require high resolutions.
• Your device's camera features a wide-angle lens. Minor distortion may occur in wide-angle photos and does not indicate device performance problems.
• The maximum recording time may reduce when you record video at high resolution.

**HDR (High Dynamic Range)**

Use HDR mode to capture photos and videos with rich colours and reproduce details even in bright and dark areas.

On the preview screen, tap $\rightarrow$ **HDR (rich tone)** and select an option.

Without effect  
With effect
Locking the focus (AF) and exposure (AE)

You can lock the focus or exposure on a selected area to prevent the camera from automatically adjusting based on changes to the subjects or light sources.

Tap and hold the area to focus, the AF/AE frame will appear on the area and the focus and exposure setting will be locked. The setting remains locked even after you take a photo.

This feature is only available in some shooting modes.

Customising shooting modes

On the preview screen, swipe to the right to open the shooting modes list and select a mode.

To view the description of each mode, tap → Information.

To rearrange modes, tap → Edit, tap and hold a mode icon, and then drag it to a new location.

To add mode shortcuts to the Home screen, tap → Add shortcut on home screen.

Auto mode

Auto mode allows the camera to evaluate the surroundings and determine the ideal mode for the photo.

On the shooting modes list, tap Auto.
Pro mode

Take photos while manually adjusting various shooting options, such as exposure value and ISO value.

On the shooting modes list, tap **Pro**. Select options and customise the settings, and then tap ![ ] to take a photo.

- **ISO**: Select an ISO value. This controls camera light sensitivity. Low values are for stationary or brightly lit objects. Higher values are for fast-moving or poorly lit objects. However, higher ISO settings can result in noise in photos.

  ![ ] If the shutter speed is set manually, you cannot set the ISO setting to **AUTO**.

- **atoon**: Adjust the shutter speed. A slow shutter speed allows more light in, so the photo becomes brighter. This is ideal for photos of scenery or pictures taken at night. A fast shutter speed allows less light in. This is ideal for taking photos of fast-moving subjects.

- **atoon**: Select a colour tone. To create your own colour tone, tap **Tone 1** or **Tone 2**.

- **atoon**: Change the focus mode. Drag the adjustment bar towards ![ ] or ![ ] to manually adjust the focus. To switch to auto focus mode, tap **MANUAL**.

- **WB**: Select an appropriate white balance, so images have a true-to-life colour range. You can set the colour temperature. Tap ![ ] and drag your finger on the colour temperature bar.

- **atoon**: Change the exposure value. This determines how much light the camera’s sensor receives. For low-light situations, use a higher exposure.

  ![ ] If the shutter speed is set manually, you cannot change the exposure value. The exposure value will change and be displayed based on the shutter speed setting.
Separating the focus area and the exposure area

You can lock the focus and the exposure on a selected area to prevent the camera from automatically based on changes to the subjects or light sources. In pro mode, you can separate the exposure and focus and set them to different points.

This feature is only available when you set the shutter speed and the focus to AUTO in pro mode.

1. On the preview screen, tap and hold the area to focus.
   The AF/AE frame will appear on the focus area.

2. Drag the AF/AE frame to the exposure area.
   The exposure area will be separated from the focus area.
Panorama

Take a series of photos horizontally or vertically and then stitch them together to create a wide scene.

To get the best shots using panorama mode, follow these tips:

- Move the camera slowly in one direction.
- Keep the image within the frame on the camera’s viewfinder. If the preview image is out of the guide frame or you do not move the device, the device will automatically stop taking photos.
- Avoid taking photos of indistinct backgrounds, such as an empty sky or a plain wall.

1. On the shooting modes list, tap **Panorama**.
2. Tap and move the device slowly in one direction.
3. Tap to stop taking photos.
4. On the preview screen, tap the preview thumbnail.

Motion panorama

You can take and view a panorama with motion.

When taking motion panoramas, sound will not be recorded.

1. On the panorama preview screen, make sure the motion feature is activated ( ) and take a motion panorama.
2. On the preview screen, tap the preview thumbnail.
3. Tap **VIEW AS MOTION PANORAMA**.
   The captured motion panorama will be played.
4. Tilt the device or swipe on the screen to rotate the captured motion panorama.
   To save the motion panorama as a video file, tap **SAVE VIDEO**.
Selective focus
Use the out-of-focus effect to make specific objects stand out in a photo.

1. On the shooting modes list, tap **Selective focus**.

2. Tap the image on the preview screen where the camera should focus.

3. Tap ○ to take a photo.

4. Tap the preview thumbnail.

5. Tap **ADJUST BACKGROUND BLUR** and select one of the following:
   - **Near focus**: Make the subject stand out and blur the background around the subject.
   - **Far focus**: Blur the subject and make the background stand out around the subject.
   - **Pan focus**: Make the subject and its background stand out.

6. Tap **SAVE**.

- It is recommended that you position subjects within 50 cm of the device. Position the subject that you want to focus on close to the device.
- When taking photos, ensure there is sufficient distance between the subject and the background. The distance should be more than three times the distance between the device and the subject.
- Hold the device steady and remain still while taking a photo.
- The quality of photos taken by the device can be affected in the following conditions:
  - The device or the subject is moving.
  - There is strong background light, low levels of light, or you are taking photos indoors.
  - The subject or background has no pattern, or consists of a plain colour.
Slow motion

Record a video for viewing it in slow motion. You can specify sections of your videos to be played in slow motion.

1. On the shooting modes list, tap **Slow motion**.

2. Tap 🎥 to start recording.

3. When you are finished recording, tap 🎥 to stop.

4. On the preview screen, tap the preview thumbnail.

5. Tap 🎥.  
   The video will start playing with a randomly set slow motion section. If a video contains lots of movement, one or two slow motion sections will be created based on the biggest movements.

Editing slow motion sections

1. On the preview screen, tap the preview thumbnail.

2. Tap 🎥.

3. Tap the screen and tap ⏳ to pause playback.

4. Drag the start bracket and the end bracket to the desired points to set the duration of the video to be played.
5 Drag ▲ to select the area of the video to be played in slow motion.
   To set a slow motion section more precisely, tap and hold ▲, and then drag your finger to the left or right to move through the section frame by frame.

6 Tap the slow motion section and use the following options:
   • **Split**: Divide the section into two parts.
   • **Delete**: Delete one of the divided sections.
   • **Speed**: Change the playback speed of the selected section.

7 Tap ▶ to preview the video.

8 Tap **SAVE** to save the video as a new file.

**Hyperlapse**

Record scenes, such as passing people or cars, and view them as fast-motion videos. The frame rate is automatically adjusted to record smoother, less shaky fast-motion videos while walking, travelling by vehicle, and more.

![In this mode, auto focusing will not operate.](image)

1 On the shooting modes list, tap **Hyperlapse**.

2 Tap ▼ and select a frame rate option.
   If you set the frame rate to **Auto**, the device will automatically adjust the frame rate according to the changing rate of the scene.
Applications

3  Tap 🎬 to start recording.

4  Tap 🎬 to finish recording.

5  On the preview screen, tap the preview thumbnail and tap 🎬 to view the video.

Food

Take photos of food with more vibrant colours.

1  On the shooting modes list, tap Food.

2  Tap the screen and drag the circular frame over the area to highlight. The area outside the circular frame will be blurred. To resize the circular frame, drag a corner of the frame.

3  Tap 🎬 and drag the adjustment bar to adjust the colour tone.

4  Tap 📷 to take a photo.
Virtual shot

Take a series of photos while circling a subject to create a view of the subject from multi angles. You can view the subject from different angles by dragging your finger left or right on the photo.

1 On the shooting modes list, tap Virtual shot.

2 Place a subject in the centre of the preview screen and tap .

3 Move the device around the subject slowly in one direction to take more photos.
   When the arrow becomes completely yellow or when you stop circling the subject, the device will automatically stop taking photos.

Viewing virtual shot photos

1 On the preview screen, tap the preview thumbnail.

2 Tap 🎥.

3 Drag your finger left or right on the screen, or slowly swivel the device left or right to view the subject from different angles.
**Selfie**

Take self-portraits with the front camera. You can preview various beauty effects on the screen.

1. On the preview screen, swipe upwards or downwards, or tap 📸 to switch to the front camera for self-portraits.

2. On the shooting modes list, tap **Selfie**.

3. Face the front camera lens.

4. When the device detects your face, tap the sensor on the back of the device to take a photo of yourself.
   
   Alternatively, show your palm to the front camera. After recognising your palm, a countdown timer will appear. When the time is up, the device will take a photo.

To use various shooting options for the front camera, tap 📸 → **Shooting methods**, and then tap the switches to activate them.

**Using the selfie flash**

When taking self-portraits with the front camera in low-light situations, the touchscreen can serve as a flash.

On the preview screen, tap 📸 repeatedly until you reach 📸. When you take a photo, the touchscreen will flash.
Applying beauty effects

You can apply the spotlight effect or modify facial features, such as your skin tone or face shape, before taking self-portraits.

This feature is available only in **Selfie** mode.

1. On the preview screen, tap 🎨.

2. Select the options below to apply beauty effects to your face on the preview screen and take a photo of yourself.
   - **Skin Tone**: Make your skin appear brighter and clearer.
   - **Spotlight**: Adjust the brightness and location of the spotlight. To set the location of the spot to highlight or to adjust the brightness, drag the adjustment bar towards the desired level.
   - **Slim Face**: Adjust the face shape and make your face appear slimmer.
   - **Large Eyes**: Make your eyes appear bigger.
   - **Shape correction**: When your face is at the edges of the preview screen, it will appear distorted. Enable this option to correct your face shape. After shape correction, the background may appear slightly distorted.

Wide selfie

Take a wide self-portrait and include as many people in the photo as possible to avoid leaving people out.

1. On the preview screen, swipe upwards or downwards, or tap 📷 to switch to the front camera for self-portraits.

2. On the shooting modes list, tap **Wide selfie**.
3  Face the front camera lens.

4  When the device detects your face, tap the sensor on the back of the device to take a photo of yourself.

   Alternatively, show your palm to the front camera. After recognising your palm, a countdown timer will appear. When the time is up, the device will take a photo.

   To use various shooting options for the front camera, tap \( \text{Shooting methods} \), and then tap the switches to activate them.

5  Slowly swivel the device left and then right or vice versa to take a wide self-portrait.

   The device will take additional photos when the white frame moves to each end of the viewfinder window.

   - Make sure to keep the white frame inside the viewfinder window.
   - The subjects should remain still while taking wide self-portraits.
   - The top and bottom parts of the image displayed on the preview screen may be cut out of the photo depending on the shooting conditions.
Wide self-portrait with motion

You can take and view a wide self-portrait with motion.

- When taking a wide self-portrait with motion, sound will not be recorded.
- Depending on the shooting conditions, motion may not be saved.

1. On the wide selfie preview screen, make sure the motion feature is activated (≡) and take a wide self-portrait with motion.

2. On the preview screen, tap the preview thumbnail.

3. Tap MOTION WIDE-ANGLE SELFIE.
   The captured wide self-portrait will be played.

4. Tilt the device or swipe on the screen to rotate the captured wide self-portrait.
   To save the wide self-portrait as a video file, tap SAVE VIDEO.

Downloading modes

Download more shooting modes from Galaxy Apps.
On the shooting modes list, tap +.

Some downloaded shooting modes do not have access to every feature.

Camera settings

Quick settings

On the preview screen, use the following quick settings.

- The available options may vary depending on the shooting mode and which camera is being used.

  - : Turn on and off the full preview screen.
Applications

-:

- Change the focus area. **Multi** focuses on several areas within the frame. Multiple rectangles will appear to indicate the focused areas. **Centre** focuses on the centre within the frame.

- Select a metering method. This determines how light values are calculated. **Centre-weighted** uses the light in the centre portion of the shot to calculate the exposure of the shot. **Spot** uses the light in a concentrated centre area of the shot to calculate the exposure of the shot. **Matrix** averages the entire scene.

- Create motion panorama photos or motion wide selfies that can be played as videos. You can view the motion photos at different angles by tilting the device or swiping on the screen.

- Select a frame rate.

- Activate or deactivate the flash.

- Focus on a subject inside the circular frame and blur the image outside the frame.

Camera settings

On the preview screen, tap  

The available options may vary depending on the shooting mode and which camera is being used.

REAR CAMERA

- **Picture size**: Select a resolution for photos. Using a higher resolution will result in higher quality photos, but they will take up more memory.

Tap the **Save RAW and JPEG files** switch to set the device to save photos as uncompressed RAW files (DNG file format) in pro mode. RAW files retain all of a photo’s data for the best image quality, but they will take up more memory. To view RAW files, an image viewer app is required.

- When using this feature, each photo is saved in two formats, DNG and JPG. Burst shot photos are only saved as JPG files.

- You can view JPG files in **Gallery**. DNG files can be viewed or deleted in the **DCIM → Camera** folder.

- **Video size**: Select a resolution for videos. Using a higher resolution will result in higher quality videos, but they will take up more memory.
• **Tracking AF**: Set the device to track and automatically focus on a selected subject. When you select a subject, the device will focus on the subject even if the subject is moving or you change the camera’s position.

  - When this feature is activated, you cannot use the Video stabilisation feature.
  - Tracking a subject may fail in the following conditions:
    - The subject is too big or too small.
    - The subject moves excessively.
    - The subject is backlit or you are shooting in a dark place.
    - Colours or patterns on the subject and the background are the same.
    - The subject includes horizontal patterns, such as blinds.
    - The camera shakes excessively.
    - The video resolution is high.

• **Shape correction**: Correct distortion in photos automatically.

• **Timer**: Select the length of the delay before the camera automatically takes a photo.

• **HDR (rich tone)**: Take photos with rich colours and reproduce details even in bright and dark areas.

**FRONT CAMERA**

• **Picture size**: Select a resolution for photos. Using a higher resolution will result in higher quality photos, but they will take up more memory.

• **Video size**: Select a resolution for videos. Using a higher resolution will result in higher quality videos, but they will take up more memory.

• **Save pictures as previewed**: Invert the image to create a mirror-image of the original scene, when taking photos with the front camera.

• **Shooting methods**: Select shooting options to use.

• **Timer**: Select the length of the delay before the camera automatically takes a photo.

• **HDR (rich tone)**: Take photos with rich colours and reproduce details even in bright and dark areas.
COMMON

- **Motion photo**: Set the device to take a video clip for a few seconds before tapping . This allows you to capture a moment you might have missed. To view the video, tap the preview thumbnail and tap **PLAY MOTION PHOTO**. To capture a still image from the video clip, tap the screen to stop playback and tap **CAPTURE**. This feature is available only in **Auto** and **Selfie** modes.

- **Video stabilisation**: Activate anti-shake to reduce or eliminate blurry image resulting from camera shake while recording a video.

  When the **Tracking AF** feature is activated, you cannot use this feature.

- **Grid lines**: Display viewfinder guides to help composition when selecting subjects.

- **Location tags**: Attach a GPS location tag to the photo.

  - GPS signal strength may decrease in locations where the signal is obstructed, such as between buildings or in low-lying areas, or in poor weather conditions.
  - Your location may appear on your photos when you upload them to the Internet. To avoid this, deactivate the location tag setting.

- **Review pictures**: Set the device to show photos after capturing them.

- **Quick launch**: Set the device to launch the camera by pressing the Home key twice quickly.

- **Storage location**: Select the memory location for storage. This feature will appear when you insert a memory card.

- **Voice control**: Set the device to take photos or record videos with voice commands. You can say “Smile”, “Cheese”, “Capture”, or “Shoot” to take a photo. To record a video, say “Record video.”

- **Floating Camera button**: Add a camera button that you can place anywhere on the screen. This feature is available only in **Auto** and **Selfie** modes.

- **Volume key function**: Set the device to use the Volume key to control the shutter or zoom in or out.

- **Reset settings**: Reset the camera settings.

- **Contact us**: Ask questions or view frequently asked questions. Refer to **Samsung Members** for more information.
Introduction

View images and videos stored in your device. You can also manage images and videos by album or create stories.

Viewing images and videos

Viewing images

1. Launch the Gallery app and tap PICTURES.
2. Select an image.

   - Access additional options.
   - Add the image to favourites.
   - Add a sticker.
   - Draw on the image.
   - Apply a filter or effect.
   - Share the image with others.
   - Modify the image.
   - Delete the image.
To hide or show the menus, tap the screen.

You can create a GIF animation or collage from multiple images. Tap → **Animate** or **Collage**, and then select images. You can select up to six images for your collage.

**Searching for images**

On the Gallery screen, tap to view images sorted by category, such as location, people, documents, and more.

To search for images by entering keywords, tap the search field.

**Viewing videos**

1. Launch the **Gallery** app and tap **PICTURES**.

2. Select a video to play. Video files show the ▶ icon on the preview thumbnail.

Drag your finger up or down on the left side of the playback screen to adjust the brightness, or drag your finger up or down on the right side of the playback screen to adjust the volume.

To rewind or fast-forward, swipe to the left or right on the playback screen.
**Using the Video enhancer feature**

Enhance the image quality of your videos to enjoy brighter and more vivid colours. Launch the Settings app, tap Advanced features, and then tap the Video enhancer switch to activate it.

- This feature is only available in some apps.
- Using this feature will increase battery consumption.

**Viewing albums**

You can sort the images and videos saved in your device by folder or album. The animations or collages you have created will also be sorted in your folders on the albums list.

Launch the Gallery app, tap ALBUMS, and then select an album.

**Viewing stories**

When you capture or save images and videos, the device will read their date and location tags, sort the images and videos, and then create stories. To create stories automatically, you must capture or save multiple images and videos.

**Creating stories**

Create stories with various themes.

1. Launch the Gallery app and tap STORIES.
2. Tap → Create story.
3. Tick images or videos to include in the story and tap DONE.
4. Enter a title for the story and tap CREATE.

To add images or videos to a story, select a story and tap ADD.

To remove images or videos from a story, select a story, tap → Edit, tick images or videos to remove, and then tap → Remove from story.
Deleting stories

1. Launch the Gallery app and tap STORIES.

2. Tap and hold a story to delete, and tap DELETE.

Syncing images and videos with Samsung Cloud

You can sync images and videos saved in Gallery with Samsung Cloud and access them from other devices. You must register and sign in to your Samsung account to use Samsung Cloud. Refer to Samsung account for more information.

Launch the Gallery app, tap → Settings, and then tap Samsung Cloud switch to activate it. Images and videos captured on the device will be automatically saved to Samsung Cloud.

Deleting images or videos

Deleting an image or a video

Select an image or a video and tap at the bottom of the screen.

Deleting multiple images and videos

1. On the Gallery screen, tap and hold an image or a video to delete.

2. Tick the images or videos to delete.

3. Tap DELETE.

Sharing images or videos

Select an image or a video, tap at the bottom of the screen, and then select a sharing method.
Applications

Samsung Pay

Introduction

Register frequently used cards to Samsung Pay, a mobile payment service, to make payments quickly and securely. Samsung Pay supports magnetic secure transmission (MST) as well as near field communication (NFC) to allow payment through standard credit card readers.

You can view more information, such as cards that support this feature at www.samsung.com/samsungpay. Alternatively, launch the Samsung Pay app and tap Help.

- This app's availability and supported features may vary depending on the region or service provider.
- The procedures for the initial setup and card registration may vary depending on the region or service provider.
Before you start

• To use this feature, you must sign in to your Samsung account and register your fingerprints. For more information, refer to Samsung account and Fingerprint recognition.

• To make payments with Samsung Pay, the device may be required a connection to a Wi-Fi or mobile network depending on the region.

Setting up Samsung Pay

When running this app for the first time or restart it after performing a data reset, follow the on-screen instructions to complete the initial setup.

1. Launch the Samsung Pay app.

2. Sign in to your Samsung account.

3. Read and agree to the terms and conditions.

4. Register your fingerprint to use when making payments.

5. Create a PIN to use when making payments.

   This PIN will be used to verify various actions in Samsung Pay, such as making payments and unlocking the app.

Registering cards

You can easily register cards by capturing their images with the camera.

You can check the cards that support this feature from the Samsung Pay website (www.samsung.com/samsungpay).

Launch the Samsung Pay app, tap Add, and then follow the on-screen instructions to complete your card registration.
Making payments

1 Tap and hold a card image at the bottom of the screen and drag it upwards. Alternatively, launch the Samsung Pay app.

2 On the cards list, swipe to the left or right and select a card to use.

3 Place your finger on the Home key to scan your fingerprint. Alternatively, enter the payment PIN you set when setting up the Samsung Pay.
4 Touch the back of your device to the card reader.
   When the card reader recognises the card information, the payment will be processed.
   • Payments may not be processed depending on your network connection.
   • The verification method for payments may vary depending on the card readers.

Cancelling payments
You can cancel payments by visiting the place where you made them.
On the cards list, swipe to the left or right to select the card you used. Follow the on-screen instructions to complete payment cancellation.

Changing the Samsung Pay settings
On the Samsung Pay screen, tap → Settings. Select the screen where the card image will appear to activate Samsung Pay on the Home screen or locked screen, or when the screen is turned off.

Samsung Gear
Samsung Gear is an app that allows you to manage your Gear wearable device. When you connect your device to the Gear, you can customise the Gear’s settings and apps.
Launch the Samsung Gear app.
Tap START THE JOURNEY to connect your device to the Gear. Follow the on-screen instructions to finish the setup. Refer to the Gear’s user manual for more information about how to connect and use the Gear with your device.
Applications

Samsung Members

Samsung Members offers support services to customers, such as device problem diagnosis, and lets users submit questions and error reports. You can also share information with others in the Galaxy users' community or view the latest Galaxy news and tips. Samsung Members can help you solve any problems you might encounter while using your device.

• This app's availability and supported features may vary depending on the region or service provider.
• This app may appear in the Samsung folder depending on the region or service provider.
• To submit your feedback or post your comments, you must register and sign in to your Samsung account. Refer to Samsung account for more information.
Game Launcher

Introduction

Game Launcher gathers your games downloaded from Play Store and Galaxy Apps into one place for easy access. You can set the device to game mode to play games more easily.

- Downloaded apps.
- Open games with or without sound.
- Turn on or off the Game Tools icon.
- Search for games.
- Access additional options.
- View your gameplay information.
- Change the performance mode.
- View more games and install them.
Using Game Launcher

1. Launch the Settings app, tap Advanced features → Games, and then tap the Game Launcher switch to activate it. 

   Game Launcher will be added to the Home screen and the Apps screen.

   When you deactivate the feature, Game Launcher will be removed from the Home screen and the Apps screen.

2. Launch the Game Launcher app.

3. Tap a game from the games list.

   Games downloaded from Play Store and Galaxy Apps will be automatically shown on the game launcher screen. If you cannot see your games, tap → Add a game.

Changing the performance mode

You can change the game performance mode.

Launch the Game Launcher app, tap Normal performance, and then tap the button repeatedly to select the mode you want.

- Normal performance: Power saving mode or high performance mode is not used.
- Save power: This decreases the battery power consumption but it will reduce the system performance.
- High performance: This improves system performance but it will increase the battery power consumption.

   Battery power efficiency may vary by game.
Using Game Tools

You can set the Game Tools icon to be displayed as a floating icon on game screens.
Launch the Settings app, tap Advanced features → Games, and then tap the Game Tools switch to activate it.

While playing a game, tap 📦 to display the game tools.
To move the icon, tap 📦 and drag it to a new location.
To hide the icon from the current game screen, tap and hold 📦 and drag it to Hide at the top of the screen.
To show the icon on the game screen again, open the notification panel and tap the Game Tools notification.

Blocking notifications during games

Tap 📦 and tap No alerts during game switch to activate it. The device will mute notification sounds and display only notifications for incoming calls and emergency alerts, so that you can enjoy your games without being disturbed. If you receive an incoming call, a small notification will appear at the top of the screen.
Calendar

Introduction
Manage your schedule by entering upcoming events or tasks in your planner.

Creating events

1. Launch the Calendar app and tap + or double-tap a date. If the date already has saved events or tasks in it, tap the date and tap +.

2. Enter event details.

   - Enter a title.
   - Set a start and end date for the event.
   - Set an alarm.
   - Select a calendar to use or sync with.
   - Enter the location of the event.
   - Attach a map showing the location of the event.
   - Add a note.
   - Add more details.

3. Tap SAVE to save the event.
Creating tasks

1. Launch the Calendar app and tap VIEW → Tasks.
2. Tap + and enter task details.
3. Tap SAVE to save the task.

Syncing events and tasks with your accounts

1. Launch the Settings app, tap Cloud and accounts → Accounts, select the account to sync with.
2. Tap Sync account and tap the Sync Calendar switch to activate it.
   For the Samsung account, tap → Sync settings and tap the Calendar switch to activate it.

To add accounts to sync with, launch the Calendar app and tap → Manage calendars → Add account. Then, select an account to sync with and sign in. When an account is added, it will appear on the list.

Samsung Health

Introduction
SAMSUNG HEALTH helps you manage your wellness and fitness. Set fitness goals, check your progress, and keep track of your overall wellness and fitness.

Starting Samsung Health
When running this app for the first time or restart it after performing a data reset, follow the on-screen instructions to complete the setup.
1. Open the Samsung folder and launch the Samsung Health app.
2. Follow the on-screen instructions to complete the setup.
Using Samsung Health

You can view the key information from Samsung Health menus and trackers to monitor your wellness and fitness. You can also compare your step count records with other Samsung Health users, compete with your friends, and view health tips.

Open the Samsung folder and launch the Samsung Health app.

Some features may not be available depending on the region.

- Monitor your health and fitness.
- Set your daily goals and track your progress.
- View health tips.
- View and manage trackers.
- View guide messages or notifications from Samsung Health.

To add items to the Samsung Health screen, tap › Manage items, and then select items under each tab.

- **GOALS**: Set your daily fitness goals and view your progress.
- **PROGRAMS**: Use customisable exercise programmes.
- **GENERAL TRACKERS**: Monitor your activities, food intake, and body measurements.
- **EXERCISE TRACKERS**: Add trackers of various exercises and monitor your activities.
Additional information

• Samsung Health is intended for fitness and wellness purposes only and is not intended for use in the diagnosis of disease or other conditions, or in the cure, mitigation, treatment, or prevention of disease.

• The available functions, features and addable applications for Samsung Health may vary from country to country due to different local laws and regulations. You should check the features and applications available in your specific region before use.

• Samsung Health applications and its service can be changed or discontinued without prior notice.

• The purpose for data collection is limited to providing the service that you have requested, including providing additional information to enhance your wellness, sync data, data analysis and statistics or to develop and provide better services. (But if you sign in to your Samsung account from Samsung Health, your data may be saved on the server for data backup purposes.) Personal information may be stored until the completion of such purposes. You can delete personal data stored by Samsung Health by using the Reset data option in the Settings menu. To delete any data you have shared with social networks or transferred to storage devices, you must delete them separately.

• You may share and/or sync your data with additional Samsung services or compatible third party services that you select, as well as with any of your other connected devices. Access to Samsung Health information by such additional services or third party devices will only be permitted with your express approval.

• You assume full responsibility for the inappropriate use of data shared on social networks or transmitted to others. Use caution when sharing your personal data with others.

• If the device is connected to measuring devices, verify the communication protocol to confirm proper operation. If you use a wireless connection, such as Bluetooth, the device may be affected by electronic interference from other devices. Avoid using the device near other devices that transmit radio waves.

• Please read Terms and Conditions and Privacy Policy of Samsung Health carefully before using it.
S Voice

Introduction
Perform various tasks simply by speaking.

Setting a wake-up command
You can launch S Voice using your own wake-up command.
When launching S Voice for the first time, tap SET UP NOW and set your own wake-up command.
To change the wake-up command, open the Samsung folder and launch the S Voice app. Then, tap → Voice wake-up → Change wake-up command → Custom → START, and then follow the on-screen instructions.
To set the device to launch S Voice using the wake-up command while the device is locked, tap and tap the Wake up in secured lock switch to activate it.
Using S Voice

1. Say the preset wake-up command.
   Alternatively, open the Samsung folder and launch the S Voice app.

   When S Voice is launched, the device begins voice recognition.

   This app may not be available depending on the region or service provider.

2. Say a voice command.

   If the device recognises the command, the device will perform the corresponding action.
   To repeat a voice command or say a different command, tap or say the preset wake-up command.

Tips for better voice recognition

- Speak clearly.
- Speak in quiet places.
- Do not use offensive or slang words.
- Avoid speaking in dialectal accents.

The device may not recognise your commands or may perform unwanted commands depending on your surroundings or how you speak.
Setting the language

Open the Samsung folder, launch the S Voice app, tap ⬅️ → Language, and then select a language.

The selected language is applied to S Voice only, not to the language displayed on the device.

Voice Recorder

Introduction

Use different recording modes for various situations, such as in an interview. The device can convert your voice to text and distinguish between sound sources.

Making voice recordings

1. Open the Samsung folder and launch the Voice Recorder app.

2. Tap 🎤 to start recording. Speak into the microphone.
   Tap 🎤 to pause recording.
   While making a voice recording, tap BOOKMARK to insert a bookmark.
3 Tap ■ to finish recording.

4 Enter a file name and tap SAVE.

**Changing the recording mode**

Open the Samsung folder and launch the Voice Recorder app. Select a mode from the top of the voice recorder screen.

- **STANDARD**: This is the normal recording mode.
- **INTERVIEW**: The microphone is sensitive to sounds from two directions. In this mode, both the top and the bottom of the device pick up equal amounts of sound.
- **SPEECH-TO-TEXT**: The device records your voice and simultaneously converts it to on-screen text. For best results, keep the device near your mouth and speak loudly and clearly in a quiet place.

If the voice memo system language does not match the language you are speaking, the device will not recognise your voice. Before using this feature, tap the current language to set the voice memo system language.

**Playing selected voice recordings**

When you review interview recordings, you can mute or unmute certain sound sources in the recording.

1 Open the Samsung folder and launch the Voice Recorder app.

2 Tap LIST and select a voice recording made in interview mode.
To mute certain sound sources, tap **ON** for the corresponding direction that sound is to be muted.

The icon will change to **OFF** and the sound will be muted.

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**My Files**

Access and manage various files stored in the device or in other locations, such as cloud storage services.

Open the **Samsung** folder and launch the **My Files** app.

View files that are stored in each storage.

To free up the device’s storage, tap **Get more space**.

To search for files or folders, tap **Q**.
Memo

Create memos and organise them by category.
Launch the Memo app.

Composing memos

Tap + on the memos list and enter a memo. While composing a memo, use the following options:

- **Category**: Create or set a category.
- **Tasks**: Add tick boxes at the beginning of each row to create a list of tasks.
- **Image**: Insert images.
- **Drawing**: Write or draw memos to insert. You can select pen thickness and colour.
- **Voice**: Make a voice recording to insert.

To save the memo, tap SAVE.

To edit a memo, tap a memo, and then tap the content of the memo.

Searching for memos

Tap SEARCH on the memos list and enter a keyword to search for memos that include the keyword.
Clock

Introduction

Set alarms, check the current time in many cities around the world, time an event, or set a specific duration.

ALARM

Launch the Clock app and tap ALARM.

Setting alarms

Tap + in the alarms list, set an alarm time, select the days on which the alarm will repeat, set other various alarm options, and then tap SAVE.

To open the keypad to enter an alarm time, tap the time input field.

To activate or deactivate alarms, tap the switch next to the alarm in the alarms list.

Stopping alarms

Tap DISMISS to stop an alarm. If you have previously enabled the snooze option, tap SNOOZE to repeat the alarm after a specified length of time.

Deleting alarms

Tap and hold an alarm, tick alarms to delete, and then tap DELETE.
WORLD CLOCK
Launch the Clock app and tap WORLD CLOCK.

Creating clocks
Tap +, enter a city name or select a city from the globe, and then tap ADD.

Deleting clocks
Tap and hold a clock, tick clocks to delete, and then tap DELETE.

STOPWATCH
1. Launch the Clock app and tap STOPWATCH.
2. Tap START to time an event.
   To record lap times while timing an event, tap LAP.
3. Tap STOP to stop timing.
   To restart the timing, tap RESUME.
   To clear lap times, tap RESET.

TIMER
1. Launch the Clock app and tap TIMER.
2. Set the duration, and then tap START.
   To open the keypad to enter the duration, tap the duration input field.
3. Tap DISMISS when the timer goes off.
**Calculator**

Perform simple or complex calculations.
Launch the **Calculator** app.
Rotate the device to landscape orientation to display the scientific calculator. If **Auto-rotate** is disabled, tap \(\rightarrow\) to display the scientific calculator.
To see the calculation history, tap **HISTORY**. To close the calculation history panel, tap **KEYPAD**.
To clear the history, tap **HISTORY \(\rightarrow\) CLEAR HISTORY**.

**Google apps**

Google provides entertainment, social network, and business apps. You may require a Google account to access some apps.
To view more app information, access each app’s help menu.

Some apps may not be available or may be labelled differently depending on the region or service provider.

**Google**

Search quickly for items on the Internet or your device.

**Chrome**

Search for information and browse webpages.

**Gmail**

Send or receive emails via the Google Mail service.

**Maps**

Find your location on the map, search the world map, and view location information for various places around you.
Applications

**YouTube**
Watch or create videos and share them with others.

**Drive**
Store your content on the cloud, access it from anywhere, and share it with others.

**Play Movies & TV**
Purchase or rent videos, such as movies and TV programmes, from Play Store.

**Hangouts**
Send messages, images, and emoticons to your friends and have video calls with them.

**Photos**
Search for, manage, and edit all your photos and videos from various sources in one place.

**Play Music**
Discover, listen to, and share music on your device. You can upload music collections stored on your device to the cloud and access them later.
Settings

Introduction

Customise settings for functions and apps. You can make your device more personalised by configuring various setting options.

Launch the Settings app.

To search for settings by entering keywords, tap Search or Q.

Connections

Wi-Fi

Activate the Wi-Fi feature to connect to a Wi-Fi network and access the Internet or other network devices.

Turn off Wi-Fi to save the battery when not in use.

Connecting to a Wi-Fi network

1. On the Settings screen, tap Connections → Wi-Fi, and then tap the switch to activate it.

2. Select a network from the Wi-Fi networks list.

   Networks that require a password appear with a lock icon. Enter the password and tap CONNECT.

   • Once the device connects to a Wi-Fi network, the device will reconnect to that network each time it is available without requiring a password. To prevent the device connecting to the network automatically, select it from the list of networks and tap FORGET.
   • If you cannot connect to a Wi-Fi network properly, restart your device’s Wi-Fi feature or the wireless router.
Wi-Fi Direct

Wi-Fi Direct connects devices directly via a Wi-Fi network without requiring an access point.

1. On the Settings screen, tap **Connections → Wi-Fi**, and then tap the switch to activate it.

2. Tap **Wi-Fi Direct**.
   - The detected devices are listed.
   - If the device you want to connect to is not in the list, request that the device turns on its Wi-Fi Direct feature.

3. Select a device to connect to.
   - The devices will be connected when the other device accepts the Wi-Fi Direct connection request.

Sending and receiving data

You can share data, such as contacts or media files, with other devices. The following actions are an example of sending an image to another device.

1. Launch the **Gallery** app and select an image.

2. Tap ☰ → **Wi-Fi Direct** and select a device to transfer the image to.

3. Accept the Wi-Fi Direct connection request on the other device.
   - If the devices are already connected, the image will be sent to the other device without the connection request procedure.

Ending the device connection

1. On the Settings screen, tap **Connections → Wi-Fi**.

2. Tap **Wi-Fi Direct**.
   - The device displays the connected devices in the list.

3. Tap the device name to disconnect the devices.
Bluetooth

Use Bluetooth to exchange data or media files with other Bluetooth-enabled devices.

- Samsung is not responsible for the loss, interception, or misuse of data sent or received via Bluetooth.
- Always ensure that you share and receive data with devices that are trusted and properly secured. If there are obstacles between the devices, the operating distance may be reduced.
- Some devices, especially those that are not tested or approved by the Bluetooth SIG, may be incompatible with your device.
- Do not use the Bluetooth feature for illegal purposes (for example, pirating copies of files or illegally tapping communications for commercial purposes). Samsung is not responsible for the repercussion of illegal use of the Bluetooth feature.

Pairing with other Bluetooth devices

1 On the Settings screen, tap Connections → Bluetooth, and then tap the switch to activate it.

The detected devices are listed.

2 Select a device to pair with.

If the device you want to pair with is not in the list, request that the device turns on its visibility option. Refer to the other device’s user manuals.

- Your device is visible to other devices while the Bluetooth settings screen is open.

3 Accept the Bluetooth connection request on your device to confirm.

The devices will be connected when the other device accepts the Bluetooth connection request.
Sending and receiving data

Many apps support data transfer via Bluetooth. You can share data, such as contacts or media files, with other Bluetooth devices. The following actions are an example of sending an image to another device.

1. Launch the **Gallery** app and select an image.

2. Tap \( \rightarrow \) **Bluetooth**, and then select a device to transfer the image to.
   - If your device has paired with the device before, tap the device name without confirming the auto-generated passkey.
   - If the device you want to pair with is not in the list, request that the device turns on its visibility option.

3. Accept the Bluetooth connection request on the other device.

Unpairing Bluetooth devices

1. On the Settings screen, tap **Connections** → **Bluetooth**.
   - The device displays the paired devices in the list.

2. Tap \( \odot \) next to the device name to unpair.

3. Tap **Unpair**.

Phone visibility

Allow other devices to find your device to share content with you. When this feature is activated, your device will be visible to other devices when they search for available devices using their Transfer files to device option.

On the Settings screen, tap **Connections** and tap the **Phone visibility** switch to activate it.
Data usage

Keep track of your data usage amount and customise the settings for the limitation.

On the Settings screen, tap **Connections** → **Data usage**.

- **Data saver**: Prevent apps that are running in the background from using a mobile data connection.
- **Mobile data**: Set the device to use data connections on any mobile network.
- **Mobile data usage**: Monitor your mobile data usage.
- **Billing cycle and data warning**: Set a limit for mobile data usage.
- **Wi-Fi data usage**: Monitor your Wi-Fi data usage.
- **Restrict networks**: Select Wi-Fi networks to prevent apps running in the background from using them.

To change the monthly reset date for the monitoring period, tap **Billing cycle and data warning** → **Start billing cycle on**.

Limiting data usage

Set the device to automatically disable the mobile data connection when the amount of mobile data you have used reaches your specified limit.

1. On the Settings screen, tap **Connections** → **Data usage** → **Billing cycle and data warning**, and then tap the **Set data limit** switch to activate it.
2. Tap **Data limit**, enter the limit, and then tap **SET**.
3. Tap **Data warning**, enter a data usage alert level, and then tap **SET**.
   The device will alert you when the warning level is reached.

Flight mode

This disables all wireless functions on your device. You can use only non-network services.

On the Settings screen, tap **Connections** and tap the **Flight mode** switch to activate it.

Follow the regulations provided by the airline and the instructions of aircraft personnel. In cases where it is allowed to use the device, always use it In flight mode.
NFC and payment

Your device allows you to read near field communication (NFC) tags that contain information about products. You can also use this feature to make payments and buy tickets for transportation or events after downloading the required apps.

⚠️ The device contains a built-in NFC antenna. Handle the device carefully to avoid damaging the NFC antenna.

Using the NFC feature

Use the NFC feature to send images or contacts to other devices, and read product information from NFC tags.

1. On the Settings screen, tap Connections and tap the NFC and payment switch to activate it.

2. Place the NFC antenna area on the back of your device near an NFC tag.
   The information from the tag appears.

Ensure that the device’s screen is unlocked. Otherwise, the device will not read NFC tags or receive data.
Making payments with the NFC feature

Before you can use the NFC feature to make payments, you must register for the mobile payment service. To register or get more information about the service, contact your service provider.

1. On the Settings screen, tap Connections and tap the NFC and payment switch to activate it.

2. Touch the NFC antenna area on the back of your device to the NFC card reader.

To set the default payment app, open the Settings screen and tap Connections → NFC and payment → Tap and pay → PAYMENT, and then select an app.

⚠️ The payment services list may not include all available payment apps.

Sending data

Allow data exchange when your device’s NFC antenna touches the other device’s NFC antenna.

1. On the Settings screen, tap Connections → NFC and payment and tap the switch to activate it.

2. Tap the Android Beam switch to activate it.

3. Select an item and touch the other device’s NFC antenna to your device’s NFC antenna.
When Touch to beam. appears on the screen, tap your device’s screen to send the item.

If both devices try to send data simultaneously, the file transfer may fail.

**Mobile Hotspot and Tethering**

Use the device as a mobile hotspot to share the device’s mobile data connection with other devices when the network connection is not available. Connections can be made via Wi-Fi, USB, or Bluetooth.

On the Settings screen, tap **Connections → Mobile Hotspot and Tethering**.

You may incur additional charges when using this feature.

- **Mobile Hotspot**: Use the mobile hotspot to share the device’s mobile data connection with computers or other devices.
- **Bluetooth tethering**: Use Bluetooth tethering to share the device’s mobile data connection with computers or other devices via Bluetooth.
- **USB tethering**: Use USB tethering to share the device’s mobile data connection with a computer via USB. When connected to a computer, the device is used as a wireless modem for the computer.
Using the mobile hotspot

Use your device as a mobile hotspot to share your device’s mobile data connection with other devices.

1. On the Settings screen, tap **Connections** → **Mobile Hotspot and Tethering** → **Mobile Hotspot**.

2. Tap the switch to activate it.
   
   The 📱 icon appears on the status bar. Other devices can find your device in the Wi-Fi networks list.
   
   To set a password for the mobile hotspot, tap ➜ **Configure Mobile Hotspot** and select the level of security. Then, enter a password and tap **SAVE**.

3. On the other device’s screen, search for and select your device from the Wi-Fi networks list.

4. On the connected device, use the device’s mobile data connection to access the Internet.

Mobile networks

Configure your mobile network settings.

On the Settings screen, tap **Connections** → **Mobile networks**.

- **Data roaming**: Set the device to use data connections when you are roaming.
- **Network mode** (single SIM models): Select a network type.
  
  **Network mode SIM 1** / **Network mode SIM 2** (dual SIM models): Select a network type.
- **Access Point Names**: Set up access point names (APNs).
- **Network operators**: Search for available networks and manually register a network.
SIM card manager (dual SIM models)

Activate your SIM or USIM cards and customise the SIM card settings. Refer to Using dual SIM or USIM cards (dual SIM models) for more information.

On the Settings screen, tap Connections → SIM card manager.

- **Calls**: Select a SIM or USIM card for voice calls.
- **Text messages**: Select a SIM or USIM for messaging.
- **Mobile data**: Select a SIM or USIM card for data services.
- **Confirm SIM card for calls**: Set the device to display the SIM or USIM card selection pop-up window when returning a call or calling from a message. The pop-up window will appear only if the SIM or USIM card used for the previous call or message is different from your preferred SIM or USIM card.
- **Dual SIM always on**: Set the device to allow incoming calls from the other SIM or USIM card during a call.

  When this feature is enabled, you may incur additional charges for call forwarding depending on the region or service provider.

Location

Change settings for location information permissions.

On the Settings screen, tap Connections → Location.

- **Locating method**: Select a method to use for locating your device.
- **Improve accuracy**: Set the device to use the Wi-Fi or Bluetooth feature to increase the accuracy of your location information, even when the features are deactivated.
- **RECENT LOCATION REQUESTS**: View which apps request your current location information.
- **LOCATION SERVICES**: View the location services your device is using.
More connection settings

Customise settings to control other features.

On the Settings screen, tap **Connections** → **More connection settings**.

- **Nearby device scanning**: Set the device to scan for nearby devices to connect to.
- **Printing**: Configure settings for printer plug-ins installed on the device. You can search for available printers or add one manually to print files. Refer to **Printing** for more information.
- **MirrorLink**: Use the MirrorLink feature to control your device's MirrorLink apps on the vehicle's head unit monitor. Refer to **MirrorLink** for more information.
- **Download booster**: Set the device to download files larger than 30 MB, faster via Wi-Fi and mobile networks simultaneously. Refer to **Download booster** for more information.
- **VPN**: Set up virtual networks (VPNs) on your device to connect to a school or company's private network.

Printing

Configure settings for printer plug-ins installed on the device. You can connect the device to a printer via Wi-Fi or Wi-Fi Direct, and print images or documents.

![Warning icon] Some printers may not be compatible with the device.

Adding printer plug-ins

Add printer plug-ins for printers you want to connect the device to.

1. On the Settings screen, tap **Connections** → **More connection settings** → **Printing** → **Add service**.

2. Search for a printer plug-in in **Play Store**.

3. Select a printer plug-in and install it.
4 Select the printer plug-in and tap the switch to activate it.
   The device searches for printers that are connected to the same Wi-Fi network as your device.

5 Select a printer to add.

   To add printers manually, tap \( \rightarrow \text{Add printer} \).

Printing content

While viewing content, such as images or documents, access the options list, tap Print \( \rightarrow \) All printers..., and then select a printer.

Printing methods may vary depending on the content type.

**MirrorLink**

Connect your device to a vehicle to control your device’s MirrorLink apps on the vehicle’s head unit monitor.

On the Settings screen, tap Connections \( \rightarrow \text{More connection settings} \rightarrow \text{MirrorLink} \).

Your device is compatible with vehicles that support MirrorLink version 1.1 or higher.

**Connecting your device to a vehicle via MirrorLink**

When using this feature for the first time, connect the device to a Wi-Fi or mobile network.

1 Pair your device with a vehicle via Bluetooth.
   Refer to Pairing with other Bluetooth devices for more information.

2 Connect your device to the vehicle using a USB cable.
   When they are connected, access your device’s MirrorLink apps on the head unit monitor.

**Ending the MirrorLink connection**

Unplug the USB cable from your device and the vehicle.
Download booster

Set the device to download files larger than 30 MB, faster via Wi-Fi and mobile networks simultaneously. A stronger Wi-Fi signal will provide a faster download speed.

On the Settings screen, tap Connections → More connection settings → Download booster.

• This feature may not be supported by some devices.
• You may incur additional charges when downloading files via the mobile network.
  • When you download large files, the device may heat up. If the device exceeds a set temperature, the feature will turn off.
• If network signals are unstable, the speed and performance of this feature may be affected.
• If the Wi-Fi and mobile network connections have significantly different data transfer speeds, the device may use only the fastest connection.
• This feature supports Hypertext Transmission Protocol (HTTP) 1.1 and Hypertext Transmission Protocol Secure (HTTPS). The feature cannot be used with other protocols, such as FTP.

Sounds and vibration

Change settings for various sounds on the device.

On the Settings screen, tap Sounds and vibration.

• Sound mode: Set the device to use sound mode, vibration mode, or silent mode.
• Vibrate while ringing: Set the device to vibrate and play a ringtone for incoming calls.
• Use Volume keys for media: Set the device to adjust the media volume level when you press the Volume key.
• Volume: Adjust the volume level for call ringtones, music and videos, system sounds, and notifications.
• Vibration intensity: Adjust the force of the vibration notification.
Settings

• **Ringtone** (single SIM models): Change the call ringtone.
  **Ringtone** (dual SIM models): Change the ringtones for calls or notifications.
• **Vibration pattern**: Select a vibration pattern.
• **Notification sounds**: Change the notification sound settings.
• **Do not disturb**: Set the device to mute incoming calls, notification sounds, and media, except for allowed exceptions.
• **Touch sounds**: Set the device to sound when you select an app or option on the touchscreen.
• **Screen lock sounds**: Set the device to sound when you lock or unlock the touchscreen.
• **Charging sound**: Set the device to sound when it is connected to a charger.
• **Vibration feedback**: Set the device to vibrate when you tap the Back key or Recents key and for other actions, such as tapping and holding items.
• **Dialling keypad tones**: Set the device to sound when you tap the buttons on the keypad.
• **Keyboard sound**: Set the device to sound when a key is touched.
• **Keyboard vibration**: Set the device to vibrate when a key is touched.
• **Sound quality and effects**: Configure additional sound settings.
• **Separate app sound**: Set the device to play media sound from a specific app on the connected Bluetooth speaker or headset separate from the sound of other apps. For example, you can listen to the Navigation app through your device's speaker while listening to playback from the Music app through the vehicle's Bluetooth speaker.

**Notifications**

Change the notification settings for each app.

On the Settings screen, tap **Notifications**.

To display icon badges, tap the **App icon badges** switch to activate it. To customise the settings, tap **App icon badges**.

To customise notification settings, tap **ADVANCED** and select an app.
Display

Options

Change the display and the Home screen settings.

On the Settings screen, tap Display.

- **Brightness**: Adjust the brightness of the display.
- **Auto brightness**: Set the device to keep track of your brightness adjustments and apply them automatically in similar lighting conditions.
- **Blue light filter**: Activate the blue light filter and change the filter settings. Refer to Blue light filter for more information.
- **Font and screen zoom**: Change the screen zoom setting or font size and style.
- **Screen mode**: Change the screen mode to adjust the display's colour and contrast. Refer to Changing the screen mode or adjusting the display colour for more information.
- **Screen resolution**: Change the screen resolution.
- **Home screen**: Change the size of the grid to display more or fewer items on the Home screen and more. Refer to Home screen options for more information.
- **Easy mode**: Switch to easy mode to display larger icons and apply a simpler layout to the Home screen. Refer to Easy mode for more information.
- **Icon frames**: Set whether to display shaded backgrounds to make icons stand out.
- **Edge screen**: Change the settings for the Edge screen. Refer to Edge screen for more information.
- **LED indicator**: Set the device to turn on the LED indicator when you charge the battery, when you have notifications, or when you make voice recordings while the screen is turned off.
- **Status bar**: Customise the settings for displaying notifications or indicators on the status bar.
- **Screen timeout**: Set the length of time the device waits before turning off the display's backlight.
- **Block accidental touches**: Set the device to prevent the screen from detecting touch input when it is in a dark place, such as a pocket or bag.
- **Screensaver**: Set the device to launch a screensaver when the device is charging.
Blue light filter

Reduce eye strain by limiting the amount of blue light emitted by the screen.

While you are watching HDR videos from HDR-exclusive video services, the blue light filter will not be applied.

1. On the Settings screen, tap Display → Blue light filter, and then tap the Turn on now switch to activate it.

2. Drag the adjustment bar to adjust the filter’s opacity.

3. To set the schedule to apply the blue light filter to the screen, tap the Turn on as scheduled switch to activate it and select an option.
   - Sunset to sunrise: Set the device to apply the blue light filter at night and turn it off in the morning, based on your location.
   - Custom schedule: Set a specific time to apply the blue light filter.

Changing the screen mode or adjusting the display colour

Select a screen mode suitable for viewing movies or images, or adjust the display colour to your preference. If you select the Adaptive display mode, you can adjust the display colour balance by colour value.

Changing the screen mode

On the Settings screen, tap Display → Screen mode and select a mode you want.

- Adaptive display: This optimises the colour range, saturation, and sharpness of your display. You can also adjust the display colour balance by colour value.
- AMOLED cinema: This is suitable for watching videos.
- AMOLED photo: This is suitable for viewing images.
- Basic: This is set as default and is suitable for general use.

- You can adjust the display colour only in Adaptive display mode.
- Adaptive display mode may not be compatible with third-party apps.
- You cannot change the screen mode while applying the blue light filter.
Optimising the full screen colour balance
Optimise the display colour by adjusting the colour tones to your preference. When you drag the colour adjustment bar towards Cool, the blue colour tone will increase. When you drag the bar towards Warm, the red colour tone will increase.

1 On the Settings screen, tap Display \rightarrow Screen mode \rightarrow Adaptive display.

2 Adjust the colour adjustment bar under Full screen colour balance. The colour balance of the screen will be optimised.

Adjusting the screen tone by colour value
Increase or lower certain colour tones by adjusting the Red, Green, or Blue value individually.

1 On the Settings screen, tap Display \rightarrow Screen mode \rightarrow Adaptive display.

2 Tick Advanced options.

3 Adjust the Red, Green, or Blue colour bar to your preference. The screen tone screen will be adjusted.
Easy mode

Easy mode provides an easier user experience by using a simpler layout and bigger icons on the Home screen.

Some app features may not be available in easy mode.

Switching to easy mode

1. On the Settings screen, tap Display → Easy mode → Easy mode.
2. Tap APPLY.

Returning to standard mode

Swipe to the left on the Home screen and tap Settings → Display → Easy mode → Standard mode → APPLY.

Managing shortcuts

To add an app shortcut to the Home screen, tap and hold an item on the Apps screen, then drag it to the top of the screen. A shortcut to the app will be added on the Home screen.

To add a shortcut to a contact on the Home screen, swipe to the right and tap 📞.

To delete a shortcut from the Home screen, tap EDIT and select an app or contact with —, or tap and hold an app to delete from the Home screen, and then tap Remove from Home.
Wallpapers and themes

Change the wallpaper settings for the Home screen and the locked screen or apply various themes to the device.

On the Settings screen, tap **Wallpapers and themes**.

Advanced features

Options

Activate advanced features and change the settings that control them.

On the Settings screen, tap **Advanced features**.

Excessive shaking or impact to the device may cause unintended input for some features.

- **Smart stay**: Set the device to prevent the display backlight from turning off while you are looking at the display.
- **Games**: Activate the Game Launcher and Game Tools icon. Refer to Game Launcher for more information.
- **One-handed mode**: Activate one-handed operation mode for your convenience when using the device with one hand.

This feature may not be available depending on the region or service provider.

- **Quick Dial**: Set the device to call a contact when you press and hold the Home key and say the contact’s name.
- **Quick launch Camera**: Set the device to launch the camera by pressing the Home key twice quickly.
- **Multi window**: Select a Multi window launch method.
- **Smart capture**: Set the device to capture content that continues across multiple screens, and crop and share the screenshot immediately.
Settings

- **Palm swipe to capture**: Set the device to capture a screenshot when you swipe your hand to the left or right across the screen. You can view the captured images in **Gallery**.

  ![Warning](https://example.com/warning_icon.png)
  It is not possible to capture a screenshot while using some apps and features.

- **Direct call**: Set the device to make a voice call by picking up and holding the device near your ear while viewing message or contact details.

- **Smart alert**: Set the device to alert you if you have missed calls or new messages when you pick up the device.

  ![Warning](https://example.com/warning_icon.png)
  This feature may not work if the screen is turned on or the device is not on a flat surface.

- **Easy mute**: Set the device to mute incoming calls or alarms by using palm motions or facing the device's screen downwards.

- **Swipe to call or send messages**: Set the device to make a call or send a message when you swipe to the right or left on a contact or a phone number.

- **Dual Messenger**: Install the second app and use two separate accounts for the same messenger app.

- **Send SOS messages**: Set the device to send help messages by pressing the Power key three times. You can also send sound recordings along with the message to the recipients. Refer to **Send SOS messages** for more information.

- **Direct share**: Set the device to display the people you contacted on the sharing options panel to allow you to share content directly.

- **Video enhancer**: Enhance the image quality of your videos to enjoy brighter and more vivid colours.

  ![Warning](https://example.com/warning_icon.png)
  This feature may not be available in some apps.
Send SOS messages

In an emergency situation, quickly press the Power key three times. The device sends messages to your emergency contacts. The messages include your location information.

1. On the Settings screen, tap Advanced features → Send SOS messages, and then tap the switch to activate it.

2. Follow the on-screen instructions to add emergency contacts if you have not already done so.

To send help messages with audio recordings or photos, tap the Attach audio recording or Attach pictures switch to activate it.

The Attach pictures option may not be available depending on the region or service provider.

Adding emergency contacts

On the Settings screen, tap Advanced features → Send SOS messages → Send messages to → ADD. Tap Create contact and enter contact information or tap Select from Contacts to add an existing contact as an emergency contact.
Device maintenance

The device maintenance feature provides an overview of the status of your device’s battery, storage, memory, and system security. You can also automatically optimise the device with a tap of your finger.

Using the quick optimisation feature

On the Settings screen, tap Device maintenance → FIX NOW or OPTIMISE NOW.

The quick optimisation feature improves device performance through the following actions.

- Clearing some memory.
- Deleting unnecessary files and closing apps running in the background.
- Managing abnormal battery usage.
- Scanning for malware.
Battery

Check the remaining battery power and time to use the device. For devices with low battery levels, conserve battery power by activating power saving features.

On the Settings screen, tap Device maintenance → Battery.

- The usage time left shows the time remaining before the battery power runs out. Usage time left may vary depending on your device settings and operating conditions.
- You cannot receive notifications from apps that use power saving mode.

Managing the battery

You can save battery power by preventing apps that are running in the background from using battery power when they are not being used. Tick apps from the apps list and tap SAVE POWER. Also, tap → Advanced settings to set app power monitor options.

You can set the device to charge the battery more quickly. Tap → Advanced settings and tap the Fast cable charging switch to activate it.

Performance mode

Change the device’s performance mode according to your usage, such as playing games or music, to get the best performance.

On the Settings screen, tap Device maintenance → Performance mode.

Storage

Check the status of the used and available memory.

On the Settings screen, tap Device maintenance → Storage.

The actual available capacity of the internal memory is less than the specified capacity because the operating system and default apps occupy part of the memory. The available capacity may change when you update the device.

Managing the memory

To delete residual files, such as cache, tap CLEAN NOW. To delete files or uninstall apps that you do not use anymore, select a category under USER DATA. Then, tick items to select and tap DELETE or UNINSTALL.
Memory
On the Settings screen, tap Device maintenance → Memory.
To speed up your device by reducing the amount of memory you are using, tick apps from the apps list, and tap CLEAN NOW.

Device security
Check the device’s security status. This feature scans your device for malware.
On the Settings screen, tap Device maintenance → Device security → SCAN PHONE.

Apps
Manage the device’s apps and change their settings. You can view the apps’ usage information, change their notification or permission settings, or uninstall or disable unnecessary apps.
On the Settings screen, tap Apps.

Lock screen and security
Options
Change the settings for securing the device.
On the Settings screen, tap Lock screen and security.

The available options may vary depending on the screen lock method selected.

• Screen lock type: Change the screen lock method.
• Smart Lock: Set the device to unlock itself when trusted locations or devices are detected.
• Secure lock settings: Change screen lock settings for the selected lock method.
• **Fingerprint Scanner**: Register your fingerprint to the device to secure the device or sign in to your Samsung account. Refer to [Fingerprint recognition](#) for more information.

• **Always On Display**: Set the device to display an image or information while the screen is turned off. Refer to [Always On Display](#) for more information.

• **Clock and FaceWidgets**: Change the settings of the items displayed when the screen is off.

• **Notifications**: Set whether or not to show notifications when the screen is off and select which notifications to display.

• **App shortcuts**: Select apps to display shortcuts to them on the locked screen.

• **Google Play Protect**: Set the device to check for harmful apps and behaviour and warn about potential harm and remove them.

• **Find My Mobile**: Activate or deactivate the Find My Mobile feature. Access the Find My Mobile website ([findmymobile.samsung.com](http://findmymobile.samsung.com)) to track and control your lost or stolen device.

  You can also locate your device or control the device remotely by using the Find My Device service provided by Google.

• **Security update**: View the version of your device’s security system and check for updates.

• **Install unknown apps**: Set the device to allow the installation of apps from unknown sources.

• **Samsung Pass**: Verify your identity easily and securely via your biometric data. Refer to [Samsung Pass](#) for more information.

• **Private mode**: Activate private mode to prevent others from accessing your personal content. Refer to [Private mode](#) for more information.

• **Secure Folder**: Create a secure folder to protect your private content and apps from others.

• **App permission monitor**: Set to receive notifications when the permissions you select are used by apps that you are not using. You can manage the settings of each app and view their permission usage history.

• **Secure startup**: Protect your device by setting it to require a screen unlock code when turning on the device. You must enter the unlock code to start the device and receive messages and notifications.
• **Encrypt SD card:** Set the device to encrypt files on a memory card.

⚠️ If you reset your device to the factory defaults with this setting enabled, the device will not be able to read your encrypted files. Disable this setting before resetting the device.

• **Other security settings:** Configure additional security settings.

**Fingerprint recognition**

In order for fingerprint recognition to function, your fingerprint information needs to be registered and stored in your device. After registering, you can set the device to use your fingerprint for the features below:

• Samsung Pass (Samsung account verification and web sign-in)
• Samsung Pay
• Screen lock
• Secure Folder

⚠️ This feature may not be available depending on the region or service provider.

• Fingerprint recognition uses the unique characteristics of each fingerprint to enhance the security of your device. The likelihood of the fingerprint sensor confusing two different fingerprints is very low. However, in rare cases where separate fingerprints are very similar the sensor may recognise them as identical.

• If you use your fingerprint as a screen lock method, your fingerprint cannot be used to unlock the screen when turning on the device. To use the device, you must unlock the screen using a pattern, PIN, or password you set when registering the fingerprint. Be careful not to forget your pattern, PIN, or password.

• If your fingerprint is not recognised, unlock the device using the pattern, PIN, or password you set when registering the fingerprint, and then re-register your fingerprints. If your pattern, PIN, or password is forgotten, you will not be able to use the device if you do not reset it. Samsung is not responsible for any data loss or inconvenience caused by forgotten unlock codes.
For better fingerprint recognition

When you scan your fingerprints on the device, be aware of the following conditions that may affect the feature’s performance:

- The Home key contains a fingerprint recognition sensor. Ensure that the Home key is not scratched or damaged by metal objects, such as coins, keys, and necklaces.
- Covering the fingerprint recognition area with protective films, stickers, or other accessories may decrease the fingerprint recognition rate. If the fingerprint recognition area is initially covered with a protective film, remove it before using the fingerprint recognition sensor.
- Ensure that the fingerprint recognition area and your fingers are clean and dry.
- The device may not recognise fingerprints that are affected by wrinkles or scars.
- The device may not recognise fingerprints from small or thin fingers.
- If you bend your finger or use a fingertip, the device may not recognise your fingerprints. Make sure to cover the entire Home key with your finger.
- To improve recognition performance, register fingerprints of the hand used most often to perform tasks on the device.
- In dry environments, static electricity can build up in the device. Avoid using this feature in dry environments or before using the feature, discharge static electricity by touching a metal object.

Registering fingerprints

2. Unlock the screen using the preset screen lock method.
   If you have not set a screen lock method, create one.
3. Place your finger on the Home key.
4. After the device detects your finger, lift it up and place it on the Home key again.
   Repeat this action until the fingerprint is registered. When you are finished registering your fingerprints, tap DONE.
   When a fingerprint lock screen appears, tap TURN ON to use your fingerprint to unlock the screen.
Deleting fingerprints
You can delete registered fingerprints.

2. Unlock the screen using the preset screen lock method.
3. Tap EDIT.
4. Tick fingerprints to delete and tap REMOVE.

Using Samsung Pass
When you register your fingerprints to Samsung Pass, you can use them to easily verify your identity or sign in to websites. Refer to Samsung Pass for more information.

Using fingerprints with Samsung Pay
You can use fingerprints with Samsung Pay to make payments quickly and securely. Refer to Samsung Pay for more information.

Samsung Pay may not be available depending on the region or service provider.

Unlocking the screen with fingerprints
You can unlock the screen with your fingerprint instead of using a pattern, PIN, or password.

2. Unlock the screen using the preset screen lock method.
3. Tap the Fingerprint unlock switch to activate it.
4. On the locked screen, place your finger on the Home key and scan your fingerprint.
**Samsung Pass**

Samsung Pass allows you to sign in to your Samsung account, websites, or apps more easily and securely via your biometric data, such as fingerprints, rather than entering your login information.

Register your biometric data to Samsung Pass and set to sign in to supported websites or apps using the data via Samsung Pass.

**Before you start**

- To use this feature, your device must be connected to a Wi-Fi or mobile network.
- To use this feature, you must sign in to your Samsung account. For more information, refer to Samsung account.
- The website sign-in feature is only available for websites that you access via the Internet app. Some websites may not support this feature.

**Registering Samsung Pass**

Before using Samsung Pass, register your biometric data to Samsung Pass.

2. Read the on-screen instructions and tap SIGN IN.
3. Enter your Samsung account ID and password and tap SIGN IN.
4. Tap DONE to finish registering your Samsung account.
5. Read and agree to the terms and conditions, and tap START.
6. Tap REGISTER FINGERPRINTS and register your fingerprint. Refer to Fingerprint recognition for more information.
7. Scan your fingerprint and tap NEXT to complete the Samsung Pass registration.
   If the Add to Home screen option is ticked, the Samsung Pass icon will be added on the Home screen.
Verifying the Samsung account password

You can use Samsung Pass to verify your Samsung account password. You can use your biometric data instead of entering your password, for example, when you purchase content from Galaxy Apps.


2. Unlock the screen using the preset screen lock method.

3. Tap → Settings → Samsung account and tap the Use with Samsung Pass switch to activate it.

Using Samsung Pass to sign in to websites

You can use Samsung Pass to easily sign in to websites that support ID and password autofill.

1. Open a website that you want to sign in to.

2. Enter your user name and password, and then tap the website’s sign in button.

3. When a pop-up window asking whether you want to save the sign-in information appears, tick Sign in using fingerprints via Samsung Pass and tap REMEMBER.
   You can now use the fingerprint you registered to Samsung Pass when signing in to the website.

Using Samsung Pass to sign in to apps

You can use Samsung Pass to easily sign in to apps that support ID and password autofill.

1. Open an app that you want to sign in to.

2. Enter your user name and password, and then tap the app’s sign in button.

3. When a pop-up window asking whether you want to save the sign-in information appears, tap SAVE.
   You can now use the biometric data you registered to Samsung Pass when signing in to the app.
Managing sign-in information

View the list of websites you have set to use Samsung Pass and manage your sign-in information.

1. On the Settings screen, tap **Lock screen and security → Samsung Pass**.
2. Unlock the screen using the preset screen lock method.
3. Select a website from the list.
4. Tap → **Edit** and modify your ID, password, and the website’s name. To delete the website, tap → **Delete**.

Using Samsung Pass with websites and apps

When using websites or apps that support Samsung Pass, you can easily sign in with Samsung Pass.

To see the list of websites and apps that support Samsung Pass, open the Settings screen, tap **Lock screen and security → Samsung Pass**, and then select the site or app tab. If there are no websites or apps that support Samsung Pass, the site or app tab will not appear.

- Available websites and apps may vary depending on the region or service provider.
- Samsung is not responsible for any loss or inconvenience caused by signing in to websites or apps via Samsung Pass.

Deleting your Samsung Pass data

You can delete your biometric data, web sign-in information, and app data registered to Samsung Pass with **Delete data**. Your agreement to the terms and conditions and your Samsung account will remain active.

1. On the Settings screen, tap **Lock screen and security → Samsung Pass**.
2. Unlock the screen using the preset screen lock method.
3. Tap → Settings → Delete data.

4. Enter your Samsung account password.
   Your Samsung Pass data will be deleted.

**Private mode**

Hide personal content in your device to prevent others from accessing it.

**Activating private mode**

1. On the Settings screen, tap Lock screen and security → Private mode, and then tap the switch to activate it.
   If you are activating private mode for the first time, follow the on-screen instructions to set up a private mode access code.

2. Follow the on-screen instructions to enter the preset private mode access code.
   Private mode is activated and the icon appears on the status bar.

   You can view and access the hidden items only when private mode is activated. To hide items stored in the private folder, deactivate private mode.

**Hiding content**

1. Launch an app to hide items.

2. Select an item and tap → Move to Private.
   If private mode is not activated, follow the on-screen instructions to enter the preset private mode access code.
   The selected items will be moved to the private folder.
Viewing hidden content

You can view hidden items only when private mode is activated.

1. On the Settings screen, tap Lock screen and security → Private mode, and then tap the switch to activate it.

2. Follow the on-screen instructions to enter the preset private mode access code.

3. Open the Samsung folder, launch the My Files app, and then tap Private.
   Items moved to the private folder will appear on the screen.

Unhiding content

1. In the private folder, tap and hold an item, and then tick items to unhide.

2. Tap → Remove from Private.

3. Select a folder to move the items to, and then tap DONE.
   The items will be moved to the selected folder.

Automatically deactivating private mode

You can set the device to automatically deactivate private mode each time the screen turns off.

1. On the Settings screen, tap Lock screen and security → Private mode, and then tap the switch to activate it.

2. Follow the on-screen instructions to enter the preset private mode access code.

3. Tap the Auto disable switch to activate it.

   When the Auto disable option is enabled, the device will fail to transfer files to the private folder if the screen turns off during transfer.
Cloud and accounts

Options

Sync, back up, or restore your device’s data using Samsung Cloud. You can also register and manage accounts, such as your Samsung account or Google account, or transfer data to or from other devices via Smart Switch.

On the Settings screen, tap **Cloud and accounts**.

Regularly back up your data to a safe location, such as Samsung Cloud or a computer, so that you can restore it if the data is corrupted or lost due to an unintended factory data reset.

- **Samsung Cloud**: Manage the content that you want to store securely in Samsung Cloud. Check the usage status of your Samsung Cloud storage, and sync, back up, and restore your data. Refer to Samsung Cloud for more information.

- **Accounts**: Add your Samsung and Google accounts, or other accounts, to sync with.

- **Backup and restore**: Keep your personal information, app data, and settings safe on your device. You can back up your sensitive information and access it later. You must sign in to your Google or Samsung account to back up or restore data. Refer to Backup and restore for more information.

- **Smart Switch**: Launch Smart Switch and transfer data from your previous device. Refer to Smart Switch for more information.
Backup and restore

Keep your personal information, app data, and settings safe on your device. You can back up your sensitive information and access it later. You must sign in to your Google or Samsung account to back up or restore data.

Using a Samsung account

On the Settings screen, tap Cloud and accounts → Backup and restore → Back up data for the Samsung account, select the items you want to back up, and then tap BACK UP. Data will be backed up to Samsung Cloud. Refer to Samsung Cloud for more information. To restore backup data from Samsung Cloud using a Samsung account, tap Restore data. Select a device and the data types you want to restore and tap RESTORE. The selected data will be restored to your device.

Using a Google account

On the Settings screen, tap Cloud and accounts → Backup and restore and tap the Back up my data switch for the Google account to activate it. Tap Backup account and select an account as the backup account.

To restore data using a Google account, tap the Automatic restore switch to activate it. When you reinstall apps, backed up settings and data will be restored.

Google

Configure settings for some features provided by Google. On the Settings screen, tap Google.

Accessibility

Configure various settings to improve accessibility to the device. Refer to Accessibility for more information. On the Settings screen, tap Accessibility.
General management

Customise your device's system settings or reset the device.

On the Settings screen, tap General management.

- **Language and input**: Select device languages and change settings, such as keyboards and voice input types. Some options may not be available depending on the selected language.
- **Date and time**: Access and alter the settings to control how the device displays the time and date.

⚠️ If the battery remains fully discharged, the time and date is reset.

- **Contact us**: Ask questions or view frequently asked questions. Refer to Samsung Members for more information.
- **Reset**: Reset your device's settings or perform a factory data reset.

Software update

Update your device's software or change the update settings.

On the Settings screen, tap Software update.

⚠️ If emergency software updates are released for your device's security and to block new types of security threats, they will be installed automatically without your agreement.

- **Download updates manually**: Check for and install updates manually.
- **Download updates automatically**: Set the device to download updates automatically when connected to a Wi-Fi network.
- **Scheduled software updates**: Set the device to install downloaded updates at a specified time.
- **Last update information**: View information about the last software update.
User manual

View help information to learn how to use the device and apps or configure important settings.


About phone

Access your device's information.

On the Settings screen, tap About phone.

To change your device's name, tap EDIT.

- **Status**: View various device information, such as the SIM card status, Wi-Fi MAC address, and serial number.
- **Legal information**: View legal information related to the device, such as safety information and the open source licence.
- **Software information**: View the device's software information, such as its operating system version and firmware version.
- **Battery information**: View the device's battery status and information.
Appendix

Accessibility

About Accessibility

Improve accessibility with features that make the device easier to use for users who have impaired vision, hearing, and reduced dexterity.

Launch the Settings app and tap Accessibility.

Voice Assistant (Voice feedback)

Activating or deactivating Voice Assistant

When you activate Voice Assistant, the device will start voice feedback. When you tap the selected feature once, the device will read the text on the screen aloud. Tapping the feature twice will activate the feature.

Launch the Settings app, tap Accessibility → Vision → Voice Assistant, and then tap the switch to activate it.

To deactivate Voice Assistant, tap the switch and tap anywhere on the screen twice quickly. When you activate Voice Assistant for the first time, the tutorial will start after activation. You can replay it by tapping Voice Assistant help.

⚠️ Some features are not available while you are using Voice Assistant.
Controlling the screen with finger gestures

You can use various finger gestures to control the screen while you are using Voice Assistant.

**One finger gestures**

- **Tapping**: Read aloud the item under your finger. To explore the screen, place a finger on the screen and move it on the screen.
- **Tapping twice**: Open the selected item. While selected items are read aloud, when you hear the item you want, release your finger from the item. Then, tap anywhere on the screen twice quickly.
- **Double-tapping and holding the screen**: Move an item or access an available option.
- **Swiping to the left**: Move to the previous item.
- **Swiping to the right**: Move to the next item.
- **Swiping upwards or downwards**: Change the most recent contextual menu settings.
- **Swiping to the left then right in one motion**: Scroll up the screen.
- **Swiping to the right then left in one motion**: Scroll down the screen.
- **Swiping upwards then downwards in one motion**: Move to the first item on the screen.
- **Swiping downwards then upwards in one motion**: Move to the last item on the screen.

**Two finger gestures**

- **Tapping twice**: Start, pause, or resume playback.
- **Tapping three times**: Check the current time, remaining battery power, and more. To change items that are read aloud, launch the **Settings** app and tap **Accessibility** → **Vision** → **Voice Assistant** → **SETTINGS** → **Status bar information**.
- **Tapping four times**: Activate or deactivate voice feedback.
- **Swiping to the left**: Move to the next page.
- **Swiping to the right**: Return to the previous page.
- **Swiping upwards**: Scroll down the list.
- **Swiping downwards**: Scroll up the list.
- **Swipe upwards or downwards on the Home screen**: Open the Apps screen.
- **Swipe upwards or downwards on the Apps screen**: Return to the Home screen.
- **Swiping in any direction on the locked screen**: Unlock the screen.
- **Swiping downwards from the top of the screen**: Open the notification panel.
Three finger gestures

- Tapping: Start reading items aloud from the top.
- Tapping twice: Start reading from the next item.
- Tapping three times: Read the last selected text and copy it to the clipboard.
- Swiping to the left or right: Open the contextual menu and scroll through the options.
- Swiping upwards or downwards: Change the text reading and selecting granularity.
- Swiping upwards then downwards in one motion: Return to the previous screen.
- Swiping downwards then upwards in one motion: Return to the Home screen.

Four finger gestures

- Tapping: Return to the previous screen.
- Tapping twice: Return to the Home screen.
- Tapping three times: Open the list of recent apps.

Using the contextual menu

While you are using Voice Assistant, swipe to the left or right with three fingers. The contextual menu will appear and the device will read the options aloud. Swipe to the left or right with three fingers to scroll through the options. When you hear the option you want, swipe upwards or downwards to use the option or adjust the settings for the option. For example, when you hear **Speech volume**, you can adjust the volume by swiping upwards or downwards.

Adding and managing image labels

You can assign labels to images on the screen. The device reads aloud the labels when the images are selected. Add labels to unlabelled images by tapping the screen twice with three fingers and holding.

To manage the labels, launch the **Settings** app and tap **Accessibility → Vision → Voice Assistant → SETTINGS → Manage custom labels.**
Configuring settings for Voice Assistant

Configure settings for Voice Assistant for your convenience.

Launch the **Settings** app and tap **Accessibility → Vision → Voice Assistant → SETTINGS**.

- **Speech volume**: Select the volume level for voice feedback.
- **Text-to-speech**: Change the settings for text-to-speech features used when Voice Assistant is activated, such as languages, speed, and more.
- **Pitch changes**: Set the device to read aloud text with an altered pitch while using a keyboard.
- **Read keyboard input aloud**: Set the device to read aloud the item under your finger while using a keyboard.
- **Speak while screen off**: Set the device to read aloud notifications when the screen is turned off.
- **Mute with proximity sensor**: Set the device to pause voice feedback when you place your hand over the sensor at the top of the device.
- **Shake for continuous reading**: Set the device to read aloud the text displayed on the screen when you shake the device. You can select from various shaking speeds.
- **Read out caller ID**: Set the device to read the caller’s name aloud when you have an incoming call.
- **Phonetic alphabet**: Set the device to say a word that starts with the letter you tap and hold on the keyboard.
- **Usage hints**: Set the device to read usage hints aloud when you select an item by swiping.
- **Vibration feedback**: Set the device to vibrate when you control the screen, such as selecting an item.
- **Sound feedback**: Set the device to emit a sound when you control the screen, such as selecting an item.
- **Focus on speech audio**: Set the device to turn the media volume down when the device reads an item aloud.
• **Sound feedback volume**: Adjust the volume that sound is played when you touch the screen to control it. This feature is available when **Sound feedback** is activated.

• **Large cursor**: Set the device to thicken the border of the square cursor that appears when you tap items.

• **Cursor colour**: Select a colour of the square cursor that appears when you tap items.

• **Back and Recents key feedback**: Set the device to provide voice feedback when you tap the Back key or Recents key once. Double-tap the Back key or Recents key to use the keys.

• **Quick menu**: Select contextual menu options to display when you swipe to the left or right with three fingers.

• **Manage custom labels**: Manage the labels you added.

• **Keyboard shortcuts**: Set key shortcuts to use when using an external keyboard.

• **Status bar information**: Select items to read aloud when you tap the screen three times with two fingers.

• **Developer options**: Set options for app development.

### Using the device with the screen turned off

For privacy, you can set the device to function normally with the screen off. The screen does not turn on when you press the Home key or tap the screen. Currently activated features do not turn off when the screen is off.

Launch the **Settings** app, tap **Accessibility → Vision**, and then tap the **Dark screen** switch to activate it. You can activate or deactivate this feature by pressing the Power key twice.

### Entering text using the keyboard

To display the keyboard, tap the text input field, and then tap anywhere on the screen twice quickly.

To activate the rapid key input feature, launch the **Settings** app, tap **Accessibility → Vision**, and then tap the **Rapid key input** switch to activate it.

When you touch the keyboard with your finger, the device reads aloud the character keys under your finger. When you hear the character you want, release your finger from the screen to select it. The character is entered and the device reads the text aloud.

If **Rapid key input** is not activated, release your finger from the character you want, and then tap anywhere on the screen twice quickly.
Entering additional characters

Tap and hold a key on the keyboard to enter additional characters available for the key. A pop-up window appears above the key showing available characters. To select a character, drag your finger on the pop-up window until you hear the character you want, and release it.

Vision

Adding voice recordings to voice labels

You can use voice labels to distinguish objects of similar shape by attaching labels to them. You can record and assign a voice recording to an NFC-enabled voice label. The voice recording is played back when you place your device near the label.

Turn on the NFC feature before using this feature.

1 Launch the Settings app and tap Accessibility → Vision → Voice Label. The voice recorder will launch.

2 Tap 🎤 to start recording. Speak into the microphone.

3 When you are finished recording, tap DONE to stop.

4 Hold the back of your device over the voice label. The information in the voice recording will be written to the voice label.

Changing the screen zoom and font

Change the screen zoom setting or font size and style.

Launch the Settings app and tap Accessibility → Vision → Font and screen zoom.
Using the high contrast font
Adjust the colour and outline of fonts to increase the contrast between the text and the background.
Launch the Settings app, tap Accessibility → Vision, and then tap the High contrast fonts switch to activate it.

Using the high contrast keyboard
Increase the size of the Samsung keyboard and change the key colours to increase the contrast between the text and the background.
Launch the Settings app, tap Accessibility → Vision, and then tap the High contrast keyboard switch to activate it.

Displaying button shapes
Display button shapes with frames to make them stand out.
Launch the Settings app, tap Accessibility → Vision, and then tap the Show button shapes switch to activate it.

Using a magnifier
Activate a magnifier to zoom in on the screen to view a larger version of the content.
Launch the Settings app, tap Accessibility → Vision, and then tap the Magnifier window switch to activate it. The magnifier will appear on the screen.
Drag the handle at the bottom of the magnifier to move the magnifier to where you want to zoom in on the screen.
Magnifying the screen

Magnify the screen and zoom in on a specific area.

Launch the Settings app, tap Accessibility → Vision → Magnification, and then tap the switch to activate it.

- Zooming in and out: Quickly tap the screen three times to zoom in on a specific area. Quickly tap the screen three times again to return to the normal view.
- Exploring the screen by scrolling: Drag two or more fingers across the magnified screen.
- Adjusting zoom ratio: Pinch two or more fingers on the magnified screen or spread them apart.

You can also temporarily magnify the screen by tapping the screen three times and holding. While holding the screen, drag your finger to explore the screen. Release your finger to return to the normal view.

- Keyboards on the screen cannot be magnified.
- When this feature is activated, the performance of some apps may be affected.

Enlarging mouse or touchpad pointers

Enlarge the pointer when using an external mouse or touchpad.

Launch the Settings app, tap Accessibility → Vision, and then tap the Large mouse/touchpad pointer switch to activate it.

Reversing the display colours

Improve screen visibility to help users recognise text on the screen more easily.

Launch the Settings app, tap Accessibility → Vision, and then tap the Negative colours switch to activate it.

Colour adjustment

Adjust how colours are displayed on the screen if you have difficulty in distinguishing colours. The device changes the colours into more recognisable colours.

Launch the Settings app, tap Accessibility → Vision → Colour adjustment, and then tap the switch to activate it. Select an option.

To adjust the intensity of colour, drag the adjustment bar under INTENSITY.

If you select Personalised colour, you can personalise the colour of the screen. Follow the on-screen instructions to complete the colour adjustment procedure.
Hearing

Sound detectors
Set the device to vibrate when it detects your doorbell or a baby crying.

While this feature is enabled, the voice recognition will not operate.

Baby crying detector
Launch the Settings app, tap Accessibility → Hearing → Sound detectors, and then tap the Baby crying detector switch to activate it. The device will vibrate when it detects sound and the alert will be saved as a log.

Doorbell detector

1. Launch the Settings app, tap Accessibility → Hearing → Sound detectors, and then tap the Doorbell detector switch to activate it.

2. Tap 🎧 to make a recording of your doorbell.
   The device will detect and record the doorbell.

3. Tap 🎧 and ring your doorbell to check if it is recorded correctly. When the device detects the doorbell sound, tap OK.
   To change the doorbell sound, tap Change doorbell sound.
   The device will vibrate when it detects sound and the alert will be saved as a log.

Setting flash notification
Set the device to blink the flash or the screen when an alarm sounds or when you have notifications, such as incoming calls or new messages.

Launch the Settings app, tap Accessibility → Hearing → Flash notification, and then tap the switches next to the options you want to activate.
Turning off all sounds

Set the device to mute all device sounds, such as media sounds, and the caller’s voice during a call.

Launch the Settings app, tap Accessibility → Hearing, and then tap the Mute all sounds switch to activate it.

Caption settings

Launch the Settings app, tap Accessibility → Hearing → Samsung subtitles (CC) or Google subtitles (CC), and then tap the switch to activate it.

Select an option for configuring the caption settings.

Adjusting the sound balance

Set the device to adjust the sound balance when using an earphone.

1. Connect an earphone to the device and wear it.

2. Launch the Settings app and tap Accessibility → Hearing.

3. Drag the adjustment bar under Left/right sound balance to the left or right and adjust the sound balance.

Mono audio

Mono output combines stereo sound into one signal that is played through all earphone speakers. Use this if you have a hearing impairment or if a single earbud is more convenient.

Launch the Settings app, tap Accessibility → Hearing, and then tap the Mono audio switch to activate it.
Dexterity and interaction

Universal switch

You can control the touchscreen by connecting an external switch, by tapping the screen, or by using head movements and face gestures.

Launch the Settings app, tap Accessibility → Dexterity and interaction → Universal switch, and then tap the switch to activate it. If the universal switches are not registered on the device, tap ADD SWITCH and set switches to control the device.

To activate the universal switch feature, at least one switch must be registered on the device.

To set switches to control the device, tap SETTINGS → Switches.

To deactivate this feature, press the Home key three times.

Assistant menu

Displaying the assistive shortcut icon

Set the device to display the assistive shortcut icon for accessing apps, features, and settings. You can easily control the device by tapping the assistive menus in the icon.

1. Launch the Settings app and tap Accessibility → Dexterity and interaction → Assistant menu.

2. Tap the switch to activate it.

   The assistive shortcut icon appears at the bottom right of the screen.

   To adjust the assistant shortcut icon’s transparency level, drag the adjustment bar under Transparency.

Accessing assistive menus

The assistive shortcut icon appears as a floating icon for easy access to the assistive menus from any screen.

When you tap the assistive shortcut icon, the icon expands slightly and the assistive menus appear on the icon. Tap the up or down arrow to move to other panels or swipe upwards or downwards to select other menus.
Using the cursor

On the assistive menu, tap **Cursor**. You can control the screen using small finger movements on the touch area. Drag your finger on the touch area to move the cursor. Also, tap the screen to select items under the cursor.

Use the following options:

- ✈️ / ✈️: Scroll left or right on the screen.
- 👆 / 👇: Scroll up or down the screen.
- 🔫: Magnify the area where the cursor is located.
- 🛋: Move the touch area to another location.
- ✒️: Close the touch area.

To change the touch area and cursor settings, launch the **Settings** app and tap **Accessibility** → **Dexterity and interaction** → **Assistant menu**. Then, customise settings in **CURSOR AND SCREEN CONTROL**.

Using enhanced assistive menus

Set the device to display enhanced assistive menus for selected apps.

Launch the **Settings** app, tap **Accessibility** → **Dexterity and interaction** → **Assistant menu** → **Assistant plus**, tap the switch to activate it, and then select apps.

**Easy screen turn on**

Turn on the screen by moving your hand above the sensor at the top of the device. You can turn on the screen without pressing a key. When you use this feature, place the device on a flat surface with the screen facing upwards or hold the device securely to prevent it from moving.

Launch the **Settings** app, tap **Accessibility** → **Dexterity and interaction**, and then tap the **Easy screen turn on** switch to activate it.

**Touch and hold delay**

Set the recognition time for tapping and holding the screen.

Launch the **Settings** app, tap **Accessibility** → **Dexterity and interaction** → **Touch and hold delay**, and then select an option.
Click after pointer stops

Set the device to select an item automatically when you place the pointer over it.
Launch the Settings app, tap Accessibility → Dexterity and interaction, and then tap the Click after pointer stops switch to activate it.

Interaction control

Activate interaction control mode to restrict the device’s reaction to inputs while using apps.

1. Launch the Settings app and tap Accessibility → Dexterity and interaction → Interaction control.
2. Tap the switch to activate it.
3. Press and hold the Power key and the Volume Up key simultaneously while using an app.
4. Adjust the size of the frame or draw a line around an area that you want to restrict.
5. Tap DONE.

The device displays the restricted area. The restricted area will not react when you touch it and the device’s hard keys will be disabled. However, you can enable functions for the Power key, Volume key, and keyboard in interaction control mode.

To deactivate interaction control mode, press and hold the Power key and the Volume Up key simultaneously.

To set the device to lock the screen after deactivating interaction control mode, launch the Settings screen, tap Accessibility → Dexterity and interaction → Interaction control, and then tap the Use screen lock when turned off switch to activate it.
**Direction lock**

Create a directional combination to unlock the screen.

1. Launch the **Settings** app, tap **Accessibility → Direction lock**, and then tap the switch to activate it.

2. Drag your finger up, down, left, or right four to eight times, and then tap **CONTINUE**.

3. Draw the direction combination again to verify it and tap **CONFIRM**.

**Direct access**

Launch the **Settings** app, tap **Accessibility → Direct access**, and then tap the switch to activate it. Then, select an accessibility menu to open when you press the Home key three times quickly or when you simultaneously press the Power key and the Volume Up key.

You can access the following accessibility menus.

- Accessibility
- Voice Assistant
- Universal switch
- Magnifier window
- Negative colours
- Colour adjustment
- Interaction control
**Notification reminder**  
Set the device to alert you to notifications that you have not checked at the interval.  
Launch the **Settings** app, tap **Accessibility** → **Notification reminder**, and then tap the switch to activate it.  
To set the device to vibrate when you have unchecked notifications, tap the **Vibrate** switch to activate it.  
To set an interval between alerts, tap **Reminder interval**.  
To set apps to alert you to notifications, select apps under **SHOW NOTIFICATIONS FROM**.

**Answering or ending calls**  
Change the method for answering or ending calls.  
Launch the **Settings** app and tap **Accessibility** → **Answering and ending calls**.  
Select the desired method.

**Using single tap mode**  
When an alarm sounds or a call comes in, tap the button to stop the alarm, or answer or reject the call instead of dragging the button.  
Launch the **Settings** app, tap **Accessibility**, and then tap the **Single tap mode** switch to activate it.
Managing accessibility settings

Saving accessibility settings in a file
Export the current accessibility settings in a file.
Launch the Settings app and tap Accessibility → Accessibility settings backup → Import/export → Export to My Files.

Importing an accessibility settings file
Import an accessibility settings file and update the current settings.
Launch the Settings app and tap Accessibility → Accessibility settings backup → Import/export → Import from My Files. Select a file to import and tap DONE. The accessibility settings will be updated according to the imported file.

Sharing accessibility settings files
Share accessibility settings files with others via email, Wi-Fi Direct, Bluetooth, and more.
Launch the Settings app and tap Accessibility → Accessibility settings backup → Share. Then, select the accessibility files and tap DONE. Select a sharing method and follow the on-screen instructions to share the files.
Troubleshooting

Before contacting a Samsung Service Centre, please attempt the following solutions. Some situations may not apply to your device.

When you turn on your device or while you are using the device, it prompts you to enter one of the following codes:

- **Password**: When the device lock feature is enabled, you must enter the password you set for the device.
- **PIN**: When using the device for the first time or when the PIN requirement is enabled, you must enter the PIN supplied with the SIM or USIM card. You can disable this feature by using the Lock SIM card menu.
- **PUK**: Your SIM or USIM card is blocked, usually as a result of entering your PIN incorrectly several times. You must enter the PUK supplied by your service provider.
- **PIN2**: When you access a menu requiring the PIN2, you must enter the PIN2 supplied with the SIM or USIM card. For more information, contact your service provider.

Your device displays network or service error messages

- When you are in areas with weak signals or poor reception, you may lose reception. Move to another area and try again. While moving, error messages may appear repeatedly.
- You cannot access some options without a subscription. For more information, contact your service provider.

Your device does not turn on

When the battery is completely discharged, your device will not turn on. Fully charge the battery before turning on the device.
The touchscreen responds slowly or improperly

- If you attach a screen protector or optional accessories to the touchscreen, the touchscreen may not function properly.
- If you are wearing gloves, if your hands are not clean while touching the touchscreen, or if you tap the screen with sharp objects or your fingertips, the touchscreen may malfunction.
- The touchscreen may malfunction in humid conditions or when exposed to water.
- Restart your device to clear any temporary software bugs.
- Ensure that your device software is updated to the latest version.
- If the touchscreen is scratched or damaged, visit a Samsung Service Centre.

Your device freezes or encounters a fatal error

Try the following solutions. If the problem is still not resolved, contact a Samsung Service Centre.

Restarting the device

If your device freezes or hangs, you may need to close apps or turn off the device and turn it on again.

Forcing restart

If your device is frozen and unresponsive, press and hold the Power key and the Volume Down key simultaneously for more than 7 seconds to restart it.

Resetting the device

If the methods above do not solve your problem, perform a factory data reset. Launch the Settings app and General management → Reset → Factory data reset → RESET → DELETE ALL. Before performing the factory data reset, remember to make backup copies of all important data stored in the device.

If you registered a Google account to the device, you must sign in to the same Google account after resetting the device.
Appendix

Calls are not connected

- Ensure that you have accessed the right cellular network.
- Ensure that you have not set call barring for the phone number you are dialling.
- Ensure that you have not set call barring for the incoming phone number.

Others cannot hear you speaking on a call

- Ensure that you are not covering the built-in microphone.
- Ensure that the microphone is close to your mouth.
- If using an earphone, ensure that it is properly connected.

Sound echoes during a call

Adjust the volume by pressing the Volume key or move to another area.

A cellular network or the Internet is often disconnected or audio quality is poor

- Ensure that you are not blocking the device’s internal antenna.
- When you are in areas with weak signals or poor reception, you may lose reception. You may have connectivity problems due to issues with the service provider’s base station. Move to another area and try again.
- When using the device while moving, wireless network services may be disabled due to issues with the service provider’s network.

The battery icon is empty

Your battery is low. Charge the battery.
The battery does not charge properly (For Samsung-approved chargers)

- Ensure that the charger is connected properly.
- Visit a Samsung Service Centre and have the battery replaced.

The battery depletes faster than when first purchased

- When you expose the device or the battery to very cold or very hot temperatures, the useful charge may be reduced.
- Battery consumption increases when you use messaging features or apps, such as GPS, games, or the Internet.
- The battery is consumable and the useful charge will get shorter over time.

Error messages appear when launching the camera

Your device must have sufficient available memory and battery power to operate the camera app. If you receive error messages when launching the camera, try the following:

- Charge the battery.
- Free some memory by transferring files to a computer or deleting files from your device.
- Restart the device. If you are still having trouble with the camera app after trying these tips, contact a Samsung Service Centre.

Photo quality is poorer than the preview

- The quality of your photos may vary, depending on the surroundings and the photography techniques you use.
- If you take photos in dark areas, at night, or indoors, image noise may occur or images may be out of focus.
Error messages appear when opening multimedia files

If you receive error messages or multimedia files do not play when you open them on your device, try the following:

- Free some memory by transferring files to a computer or deleting files from your device.
- Ensure that the music file is not Digital Rights Management (DRM)-protected. If the file is DRM-protected, ensure that you have the appropriate licence or key to play the file.
- Ensure that the file formats are supported by the device. If a file format is not supported, such as DivX or AC3, install an app that supports it. To confirm the file formats that your device supports, visit www.samsung.com.
- Your device supports photos and videos captured with the device. Photos and videos captured by other devices may not work properly.
- Your device supports multimedia files that are authorised by your network service provider or providers of additional services. Some content circulated on the Internet, such as ringtones, videos, or wallpapers, may not work properly.

Another Bluetooth device is not located

- Ensure that the Bluetooth wireless feature is activated on your device.
- Ensure that the Bluetooth wireless feature is activated on the device you wish to connect to.
- Ensure that your device and the other Bluetooth device are within the maximum Bluetooth range (10 m).

If the tips above do not solve the problem, contact a Samsung Service Centre.

A connection is not established when you connect the device to a computer

- Ensure that the USB cable you are using is compatible with your device.
- Ensure that you have the proper driver installed and updated on your computer.
- If you are a Windows XP user, ensure that you have Windows XP Service Pack 3 or higher installed on your computer.
Your device cannot find your current location

GPS signals may be obstructed in some locations, such as indoors. Set the device to use Wi-Fi or a mobile network to find your current location in these situations.

Data stored in the device has been lost

Always make backup copies of all important data stored in the device. Otherwise, you cannot restore data if it is corrupted or lost. Samsung is not responsible for the loss of data stored in the device.

A small gap appears around the outside of the device case

- This gap is a necessary manufacturing feature and some minor rocking or vibration of parts may occur.
- Over time, friction between parts may cause this gap to expand slightly.

There is not enough space in the device’s storage

Delete unnecessary data, such as cache, using the Smart manager or manually delete unused apps or files to free up storage space.

The Apps button does not appear on the Home screen

Without using the Apps button, you can open the Apps screen by swiping upwards or downwards on the Home screen. To display the Apps button at the bottom of the Home screen, launch the Settings app and tap Display → Home screen → Apps button → Show Apps button → APPLY.

The screen brightness adjustment bar does not appear on the notification panel

Open the notification panel by dragging the status bar downwards, and then drag the notification panel downwards. Tap ✅ next to the brightness adjustment bar and tap the Show control on top switch to activate it.
Samsung Cloud does not work

- Ensure that you are connected to a network properly.
- During a Samsung Cloud’s service check, you cannot use Samsung Cloud. Try again later.

Removing the battery

- To remove the battery, contact an authorised service centre. To obtain battery removal instructions, please visit www.samsung.com/global/ecodesign_energy.
- For your safety, you must not attempt to remove the battery. If the battery is not properly removed, it may lead to damage to the battery and device, cause personal injury, and/or result in the device being unsafe.
- Samsung does not accept liability for any damage or loss (whether in contract or tort, including negligence) which may arise from failure to precisely follow these warnings and instructions, other than death or personal injury caused by Samsung’s negligence.
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