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## Health and Safety
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 customize 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 software 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 service provider, a screen protector is attached for protection during production and distribution. Damage to the attached screen protector is not covered by the warranty.

• You can see the touchscreen clearly even in strong outdoor sunlight by automatically adjusting the contrast range based on the surrounding environment. Due to the nature of the product, displaying fixed graphics for extended periods may result in afterimages (screen burn-in) or ghosting.
  – It is not recommended to use fixed graphics on part or all of the touchscreen for extended periods and to turn off the touchscreen when not using the device.
  – You can set the touchscreen to turn off automatically when you are not using it. Launch the Settings app, tap Display → Screen timeout, and then select the length of time you want the device to wait before turning off the touchscreen.
  – To set the touchscreen to automatically adjust its brightness based on the surrounding environment, launch the Settings app, tap Display, and then tap the Adaptive brightness switch to activate it.

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 fresh water deeper than 1.5 m or keep it submerged for more than 30 minutes. If you immerse the device in any liquid other than fresh water, such as salt water, ionized water, or alcoholic beverage, liquid will enter the device faster.

• Do not expose the device to water moving with force.
• Do not open the device’s covers when the device is in water or in very humid places, such as swimming pools or bathrooms.

• Do not open the back cover using wet hands or when the device is wet.

• **The rubber seal fitted to the back cover** is an important component of the device. Take care when opening and closing the back cover to avoid damaging the rubber seal. Also, ensure that the rubber seal is free from debris, such as sand or dust, to prevent damage to the device.

• The back cover may be loosened **if the device is dropped or receives an impact**. Ensure that all the covers are properly aligned and tightly closed.

• If the device is exposed to fresh water, dry it thoroughly with a clean, soft cloth. If the device is exposed to other liquids, such as salt water, swimming pool water, soapy water, oil, perfume, sunscreen, hand cleaner, or chemical products such as cosmetics, rinse it with fresh 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. After wiping the device with a dry cloth, 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, fresh water, 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, or 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, or 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.
Precautions for device overheating

If you begin to feel uncomfortable due to the device overheating, stop using the device. 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 overheats and reaches a certain temperature, a warning message will appear to prevent device failure, skin irritations and damages, and battery leakage. 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 all calling and other features will be limited, except for emergency calls, until the device cools down.

- If a second message appears due to a further increase of the device’s temperature, the device will turn off. Do not use the device until the device’s temperature drops below the specified level. If the second warning message appears during an emergency call, the call will not be disconnected by a forced shut 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.
- Do not use a cable with the covering peeled off or damaged, and do not use any charger or battery that is damaged or malfunctioning.
Device layout and functions

Package contents

Refer to the quick start guide for package contents.

- 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

- Speaker
- Front camera
- XCover key
- Touchscreen
- Multipurpose jack (USB Type-C)
- Top key
- LED indicator
- Proximity sensor
- Volume key
- Side key (Power/Bixby/Fingerprint recognition sensor)
- Earphone jack
- Microphone
- GPS antenna
- Rear camera (Dual)
- Flash
- Back cover
- NFC antenna (on the battery)
- Main antenna
- Speaker
- Microphone
• When using the speakers, such as when playing media files or using speakerphone, do not place the device close to your ears.

• Be careful not to expose the camera lens to a strong light source, such as direct sunlight. If the camera lens is exposed to a strong light source, the camera image sensor may be damaged. A damaged image sensor is irreparable and will cause dots or spots in pictures.

• If you use the device with its glass or acrylic body broken, there may be a risk of injury. Use the device only after it has been repaired at a Samsung Service Centre.

• 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, stickers, or a cover. Doing so may cause the sensor to malfunction.

### Hard keys

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<td>• Press to adjust the device volume.</td>
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<td></td>
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<tr>
<td>Top key</td>
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<tr>
<td>Side key</td>
<td>(Power/Bixby/Fingerprint recognition sensor)</td>
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<td>Volume key</td>
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### Key Function

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<td><strong>Side key</strong></td>
<td>• When the device is off, press and hold to turn it on.</td>
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<tr>
<td></td>
<td>• Press to turn on or lock the screen.</td>
</tr>
<tr>
<td></td>
<td>• Press and hold to start a conversation with Bixby. Refer to <a href="#">Using Bixby</a> for more information.</td>
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<tr>
<td></td>
<td>• Press twice or press and hold to launch the app or feature you set.</td>
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<td></td>
<td>• Place your finger on the Side key to register your fingerprints.</td>
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<tr>
<td><strong>Side key + Volume Down key</strong></td>
<td>• Press simultaneously to capture a screenshot.</td>
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<tr>
<td></td>
<td>• Press and hold simultaneously to turn off the device.</td>
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<tr>
<td><strong>XCover key</strong></td>
<td>• Press or press and hold to launch preset apps.</td>
</tr>
<tr>
<td><strong>Top key</strong></td>
<td>• Press or press and hold to launch preset apps.</td>
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### Setting the Side key

Select an app or feature to launch by pressing the Side key twice or pressing and holding the Side key.

Launch the **Settings** app, tap **Advanced features** → **Side key**, and then select an option you want.

### Soft buttons

![Soft buttons](image)

When you turn on the screen, the soft buttons will appear at the bottom of the screen. The soft buttons are set to the Recents button, Home button, and Back button by default. Refer to [Navigation bar (soft buttons)](#) for more information.
Battery

Installing the battery

1. Remove the back cover.

Be careful not to damage your fingernails when you remove the back cover.

Do not bend or twist the back cover excessively. Doing so may damage the cover.

2. Insert the battery with the battery’s gold-coloured contacts properly aligned with the device’s contacts.
3 Replace the back cover.

Ensure that the back cover is closed tightly to prevent water and dust from entering the device. An open or loose back cover may allow water and dust to enter the device and cause damage.

Use only Samsung-approved back covers and accessories with the device.

Removing the battery

1 Remove the back cover.

2 Pull out the battery.
Charging the battery

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

Only use the Samsung-approved battery, charger, and cable specifically designed for your device. An incompatible battery, charger, or cable can cause serious injuries or damage to your device.

- Connecting the charger improperly may cause serious damage to the device. Any damage caused by misuse is not covered by the warranty.
- Only use the USB Type-C cable supplied with the device. The device may be damaged if you use a Micro USB cable.

To save energy, 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 adapter.

2. Plug the USB cable into the device’s multipurpose jack.

3. Plug the USB power adapter into an electric socket.

4. After fully charging, disconnect the charger from the device. Then, unplug the charger from the electric socket.

- Do not remove the battery before removing the charger. This may damage the device.
Reducing the battery consumption

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

- Optimize the device using the device care feature.
- When you are not using the device, turn off the screen by pressing the Side key.
- Activate power saving mode.
- Close unnecessary apps.
- Deactivate the Bluetooth feature when not in use.
- Deactivate auto-syncing of apps that need to be synced.
- 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 this occurs during wireless charging, disconnect the device from the charger to let it cool down, then charge the device again later.
- 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.

Increasing the charging speed

To increase the charging speed, turn the device or its screen off when you charge the battery. If the fast charging feature is not activated, launch the Settings app, tap Device care → Battery → Charging, and then tap the Fast charging switch to activate it.

- While charging, you cannot activate or deactivate this feature.
- 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.

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 only a nano-SIM card.
- 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.
- Some services that require a network connection may not be available depending on the service provider.
- Galaxy XCover Pro will support dual SIM functionality in North America through a future software update once the service is available.
1 Remove the back cover and battery.

2 Insert the SIM or USIM card with the gold-coloured contacts facing downwards.

⚠️ Do not insert a memory card into the SIM card slot. If a memory card happens to be lodged in the SIM card slot, take the device to a Samsung Service Centre to remove the memory card.

3 Replace the battery and back cover.
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 recognize the card. To use the memory card, you must format it. If your device cannot format or recognize the memory card, contact the memory card manufacturer or a Samsung Service Centre.
- 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. Remove the back cover and battery.

2. Insert a memory card with the gold-coloured contacts facing downwards.

3. Replace the battery and back cover.
Removing the memory card

Before removing the memory card, first unmount it for safe removal.
Launch the Settings app and tap Device care → Storage → Advanced → SD card → Unmount.

⚠️ Do not remove external storage, such as a memory card or USB storage, while the device is transferring or accessing information, or right after transferring data. Doing so can cause data to be corrupted or lost or cause damage to the external storage or device. Samsung is not responsible for losses, including loss of data, resulting from the misuse of external storage devices.

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 care → Storage → Advanced → 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.

Turning the device on and off

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

Turning the device on

Press and hold the Side 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.
Turning the device off

1 To turn off the device, press and hold the Side key and the Volume Down key simultaneously. Alternatively, open the notification panel and tap 🔄.

2 Tap Power off.

To restart the device, tap Restart.

You can set the device to turn off when you press and hold the Side key. Launch the Settings app, tap Advanced features → Side key, and then tap Power off menu under Press and hold.

Forcing restart

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

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.

To activate emergency mode, press and hold the Side key and the Volume Down key simultaneously. Alternatively, open the notification panel and tap 🔄 → Emergency mode.

To deactivate emergency mode, tap 🔄 → Turn off 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.
Initial setup

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.

1. Press and hold the Side key for a few seconds to turn on the device.

2. Select your preferred device language and select →.

3. Follow the on-screen instructions to complete the setup.
   The Home screen will appear.

 половинка If you do not connect to a Wi-Fi network, you may not be able to set up some device features during the initial setup.
**Samsung account**

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. 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 **Accounts and backup → Accounts → Samsung account → Help.**

**Creating a Samsung account**

If you do not have a Samsung account, you should create one. You can create a Samsung account using your email address.

1. Launch the **Settings** app and tap **Accounts and backup → Accounts → Add account → Samsung account.**
   Alternatively, launch the **Settings** app and tap 📞.

2. Tap **Create account.**

3. Follow the on-screen instructions to complete creating your account.
Signing in to your Samsung account

If you already have a Samsung account, sign in to your Samsung account.

1. Launch the Settings app and tap Accounts and backup → Accounts → Add account → Samsung account.
   Alternatively, launch the Settings app and tap 📦.

2. Enter your Samsung account ID and password and tap Sign in.

3. Follow the on-screen instructions to complete signing in to your Samsung account.

Finding your ID and resetting your password

If you forget your Samsung account ID or password, tap Find ID or Reset password on the Samsung account sign-in screen. You can find your ID or reset your password after you enter the required information.

Removing your Samsung account

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

1. Launch the Settings app and tap Accounts and backup → Accounts.

2. Tap Samsung account → Personal info → Remove account.

3. Tap Remove, enter your Samsung account password, and then tap OK.
Transferring data from your previous device (Smart Switch)

You can use Smart Switch to transfer data from your previous device to your new device. Launch the Settings app and tap Accounts and backup → Smart Switch.

- This feature may not be supported on some devices or computers.
- Limitations apply. Visit www.samsung.com/smartswitch for details. Samsung takes copyright seriously. Only transfer content that you own or have the right to transfer.

Transferring data wirelessly

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 Store or Play Store.

2. On your device, launch the Settings app and tap Accounts and backup → Smart Switch.

3. Place the devices near each other.

4. On the previous device, tap Send data → Wireless.

5. On your device, select an item to bring and tap Transfer.

6. Follow the on-screen instructions to transfer data from your previous device.
Back up and restore data using external storage

Transfer data using external storage, such as a microSD card.

1. Back up data from your previous device to external storage.

2. Insert or connect the external storage device to your device.

3. On your device, launch the Settings app and tap Accounts and backup → Smart Switch → Restore.

4. Follow the on-screen instructions to transfer data from external storage.

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.

3. Connect your previous device to the computer using the device's 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.
Understanding the screen

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.
- It is recommended not to use fixed graphics on part or all of the touchscreen for extended periods. Doing so may result in afterimages (screen burn-in) or ghosting.
- The device may not recognize 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**

Tap the screen.

**Tapping and holding**

Tap and hold the screen for approximately 2 seconds.
Basics

**Dragging**
Tap and hold an item and drag it to the target position.

**Double-tapping**
Double-tap the screen.

**Swiping**
Swipe upwards, downwards, to the left, or to the right.

**Spreading and pinching**
Spread two fingers apart or pinch on the screen.
Navigation bar (soft buttons)

When you turn on the screen, the soft buttons will appear on the navigation bar at the bottom of the screen. The soft buttons are set to the Recents button, Home button, and Back button by default. The functions of the buttons can change according to the app currently being used or usage environment.

<table>
<thead>
<tr>
<th>Button</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Recents Button" /></td>
<td>Recents • Tap to open the list of recent apps.</td>
</tr>
<tr>
<td><img src="image" alt="Home Button" /></td>
<td>Home • Tap to return to the Home screen. • Tap and hold to launch the <strong>Google Assistant</strong> app.</td>
</tr>
<tr>
<td><img src="image" alt="Back Button" /></td>
<td>Back • Tap to return to the previous screen.</td>
</tr>
</tbody>
</table>
Hiding the navigation bar

View files or use apps on a wider screen by hiding the navigation bar.

Launch the Settings app, tap Display → Navigation bar, and then tap Full screen gestures under Navigation type. The navigation bar will be hidden and the gesture hints will appear. Tap More options and select an option you want.

- **Swipe from bottom**: The gesture hints will appear where the soft buttons are located. To use the soft buttons, drag the gesture hint of the desired button upwards.

- **Swipe from sides and bottom**:
  - Swipe up from the bottom of the screen to move to the Home screen.
  - Swipe up and hold to view the list of recent apps.
  - Swipe inward from either side of the screen to return to the previous screen.
  - Swipe inward from one of the bottom corners to launch the Google Assistant app.

If you want to hide the gesture hints at the bottom of the screen, tap the Gesture hints switch to deactivate it.
**Home screen and Apps screen**

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

The Apps screen displays icons for all apps, including newly installed apps.

⚠️ The screen may appear differently depending on the region or service provider.
**Switching between Home and Apps screens**

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 button or the Back button.

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, tap *Home screen settings*, and then tap the **Apps button** switch to activate it. The Apps button will be added at the bottom of the Home screen.
Display the screen in landscape mode

On the Home screen, tap and hold an empty area, tap **Home screen settings**, and then tap the **Rotate to landscape mode** switch to activate it.

Rotate the device until it is horizontal to view the screen in landscape mode.

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.

To add a shortcut to an app on the Home screen, tap and hold an item on the Apps screen, and then tap **Add to Home**. A shortcut to the app will be added on the Home screen.

You can also move frequently used apps to the shortcuts area at the bottom of the Home screen.
Creating folders

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

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

A new folder containing the selected apps will be created. Tap **Folder name** and enter a folder name.

- **Adding more apps**
  
  Tap $+$ on the folder. Tick the apps to add and tap **Done**. You can also add an app by dragging it to the folder.

- **Moving apps from a folder**
  
  Tap and hold an app to drag it to a new location.

- **Deleting a folder**
  
  Tap and hold a folder, and then tap **Delete folder**. Only the folder will be deleted. The folder’s apps will be relocated to the Apps screen.
Editing the Home screen

On the Home screen, tap and hold an empty area, or pinch your fingers together to access the editing options. You can set the wallpaper, add widgets, and more. You can also add, delete, or rearrange Home screen panels.

- **Adding panels:** Swipe to the left, and then tap +.
- **Moving panels:** Tap and hold a panel preview, and then drag it to a new location.
- **Deleting panels:** Tap trash icon on the panel.

• **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:** Widgets are small apps that launch specific app functions to provide information and convenient access on your Home screen. Tap and hold a widget, and then drag it to the Home screen. The widget will be added on the Home screen.
• **Home screen settings:** Configure settings for the Home screen, such as the screen grid or layout.
Displaying all apps on the Home screen

Without using a separate Apps screen, you can set the device to display all apps on the Home screen. On the Home screen, tap and hold an empty area, and then tap Home screen settings → Home screen layout → Home screen only → Apply.

You can now access all your apps by swiping to the left on the Home screen.

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.
- Some indicator icons appear only when you open the notification panel.
- The indicator icons may appear differently depending on the service provider or model.

<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>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</td>
</tr>
<tr>
<td>🌏</td>
<td>Wi-Fi connected</td>
</tr>
<tr>
<td>🌏</td>
<td>Bluetooth feature activated</td>
</tr>
<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>
</tbody>
</table>
Lock screen

Pressing the Side 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.

To unlock the screen, swipe in any direction when the screen turns on.

If the screen is off, press the Side key to turn on the screen.
Changing the screen lock method

To change the screen lock method, launch the Settings app, tap Lock screen → Screen lock type, and then select a method.

When you set a pattern, PIN, password, or your biometric data 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.
- **Face**: Register your face to unlock the screen. Refer to Face recognition for more information.
- **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 the unlock code is entered incorrectly several times in a row and the attempt limit is reached. Launch the Settings app, tap Lock screen → Secure lock settings, unlock the screen using the preset screen lock method, and then tap the Auto factory reset switch to activate it.
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.

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

- Key capture: Press the Side key and the Volume Down key simultaneously.

It is not possible to capture a screenshot while using some apps and features.

After capturing a screenshot, use the following options on the toolbar at the bottom of the screen:

- Capture the current content and the hidden content on an elongated page, such as a webpage. When you tap the screen will automatically scroll down and more content will be captured.

- Write or draw on the screenshot or crop a portion from the screenshot. The cropped area will be saved in Gallery.

- Share the screenshot with others.

If the options are not visible on the captured screen, launch the Settings app, tap Advanced features → Screenshots, and then tap the Screenshot toolbar switch to activate it.
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 use the following functions on the notification panel.

- Quick setting buttons
  - Control media on your device and connected nearby devices.
  - View the notification details and perform various actions.
- Access the notification settings.
- Access the power options.
- Clear all notifications.
- Launch Settings.
  - Control connected nearby devices and SmartThings devices and scenes.
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.

Controlling media playback
Take control of music or video playback easily using the Media feature. You can also continue playback on another device.

1. Open the notification panel and tap Media.

2. Tap the icons on the controller to control the playback.
   - To continue playback on another device, tap and select the device you want.
**Basics**

## Entering text

### Keyboard layout

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

Text entry is not supported in some languages. To enter text, you must change the input language to one of the supported languages.

### Additional keyboard functions

- Enter uppercase. For all caps, tap it twice.
- Enter symbols.
- Break to the next line.
- Enter a space.
- Delete a preceding character.
- View more keyboard functions.

### Changing the input language

Tap 📔 → **Languages and types** → **Manage input languages** and 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

To change the keyboard type, tap 📔 → **Languages and types**, select a language, and then select the keyboard type you want.

On a 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.
- 🎨: Enter stickers. You can also enter My Emoji stickers that look like you. Refer to Using My Emoji stickers in chats for more information.
- GIF: Attach animated Gifs.
- 🎤: Enter text by voice.
- 🛠: Change the keyboard settings.
- ⌨️ → 📜: Add an item from the clipboard.
- ⌨️ → 🎨: Change the keyboard mode or size.
- ⌨️ → 🎮: Open the text editing panel.

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.

2 Tap Dictionary on the options list.
   If a dictionary is not preinstalled on the device, tap Move to Manage dictionaries, tap next to a dictionary, and then tap Install 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.

Voice to Text Message

You can send messages quickly and easily with voice by pressing and holding the XCover key.

- 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 Bixby. For more information, refer to Starting Bixby.
- This feature is only available in the Messages app and in some languages.
1. Launch the **Messages** app and tap 📬.

2. Add recipients.

3. Tap the message input field and press and hold the XCover key.

4. Say a message and release your finger from the key.
   The message will be automatically sent.
   
   If you want to use this feature by pressing and holding the **Top key**, launch the **Settings** app, tap **Advanced features** → **Top key** → **Press and hold** under **Actions** switch to activate it, and then select the **Voice to Text Message**.
Apps and features

Installing or uninstalling apps

Galaxy Store
Purchase and download apps. You can download apps that are specialized for Samsung Galaxy devices.
Launch the Galaxy Store app.

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

Installing apps
Browse apps by category or tap Q 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 → → 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
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.

Some apps may not support this feature.

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.

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 → Permission manager**. Select an item and select an app.

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

Search for content on the device quickly.

1. On the Apps screen, tap **Search**. Alternatively, open the notification panel, swipe downwards, and then tap **Q**.

2. Enter a keyword.

   Apps and content on your device will be searched.

   If you tap **Q** on the keyboard, you can search for more content.

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**Bixby**

**Introduction**

Bixby is a user interface that helps you use your device more conveniently.

You can talk to Bixby or type text. Bixby will launch a function you request or show the information you want. It also learns your usage patterns and environments. The more it learns about you, the more precisely it will understand you.

- To use Bixby, your device must be connected to a Wi-Fi or mobile network.
- To use Bixby, you must sign in to your Samsung account.
- Bixby is only available in some languages, and certain features may not be available depending on your region.


**Starting Bixby**

When you launch Bixby for the first time, the Bixby intro page will appear. You must select the language to use with Bixby, sign in to your Samsung account according to the on-screen instructions, and then agree to the terms and conditions.

1. Press and hold the Side key. Alternatively, launch the Bixby app.

2. Select the language to use with Bixby.

3. Tap **Sign in to Samsung account** and follow the on-screen instructions to sign in to your Samsung account.

   ![](image)

   If you are already signed in, your account information will appear on the screen.

4. Follow the on-screen instructions to complete the setup.

   The Bixby screen will appear.
**Using Bixby**

When you say what you want to Bixby, Bixby will launch corresponding functions or show the information you requested.

While pressing and holding the Side key, say what you want to Bixby, and then release your finger from the key when you are finished speaking. Alternatively, say “Hi, Bixby”, and when the device emits a sound, say what you want.

For example, while pressing and holding the Side key, say “How’s the weather today?” The weather information will appear on the screen.

If you want to know the weather tomorrow, while pressing and holding the Side key, just say “Tomorrow?” Because Bixby understands the context of the conversation, it will show you tomorrow’s weather.
If Bixby asks you a question during a conversation, while pressing and holding the Side key, answer Bixby. Or, tap 🔄 and answer Bixby.

If you are using headphones or Bluetooth audio, or start a conversation by saying “Hi, Bixby”, you can continue the conversation without tapping the icon. Launch the Bixby app and tap 🔄 → Settings → Automatic listening → Hands-free only.

Waking up Bixby using your voice

You can start a conversation with Bixby by saying “Hi, Bixby”. Register your voice so that Bixby will respond to your voice when you say “Hi, Bixby”.

1. Launch the Bixby app and tap 🔄 → Settings → Voice wake-up.

2. Tap the Wake with “Hi, Bixby” switch to activate it.

3. Follow the on-screen instructions to complete the setup.
   Now you can say “Hi, Bixby”, and when the device emits a sound, start a conversation.

Communicating by typing text

If your voice is not recognized due to noisy environments or if you are in a situation where speaking is difficult, you can communicate with Bixby via text. Launch the Bixby app and tap 🔄, and then type what you want.

During the communication, Bixby also will answer you through text instead of voice feedback.
Bixby Vision

Introduction

Bixby Vision is a service that provides various features based on image recognition. You can use Bixby Vision to quickly search for information by recognizing objects or your current location. You can also experience the AR feature, which makes virtual images appear on the preview screen.

Use a variety of useful Bixby Vision features.

- To use this feature, the device must be connected to a Wi-Fi or mobile network.
- The available features and search results may vary depending on the region or service provider.
- This feature may not be available or you may not get correct search results depending on the image size, format, or resolution.
- Samsung is not responsible for the product information provided by Bixby Vision.
Launching Bixby Vision

Launch Bixby Vision using one of these methods.

- In the Camera app, tap MORE on the shooting modes list and tap BIXBY VISION.
- In the Gallery app, select an image and tap 📀.
- In the Internet app, tap and hold an image and tap Bixby Vision.
- If you added the Bixby Vision app icon to the Apps screen, launch the Bixby Vision app.

Searching for similar images

Search for images similar to the recognized object online. You can view various images with properties similar to the object, such as colour or shape.

For example, if you want to know the title of a photo or image, use the Bixby Vision features. The device will search for and show you related information or images with similar characteristics.

1. Launch the Camera app, tap MORE on the shooting modes list, and then tap BIXBY VISION.
2. Tap Lens and keep the object within the screen to recognize it.
3. Select a search result with Images on it.
   The similar images will appear.

Translating or extracting text

Recognize and show the translated text on the screen. You can also extract text from a document or an image file.

For example, if you want to know what a sign says while travelling abroad, use the Bixby Vision features. The device will translate the sign’s text into the language you select.

1. Launch the Camera app, tap MORE on the shooting modes list, and then tap BIXBY VISION.
2 Tap 📝 and keep the text within the screen to recognize it.
   The translated text will appear on the screen.
   • To extract text, tap 📢. You can share or save the extracted text.
   • To save the screen with the translated text as an image, tap 📀. The screen will be saved in Gallery.
   • To change the source or target language, tap the language settings panel at the top of the screen.

Searching for places

Search for information about nearby places by recognizing your current location. You can also view deals available nearby.

For example, if you want to search for nearby stores having sales, use the Bixby Vision features. The device will search for and show you the sales happening in the nearby stores.

_available features may vary depending on the region or service provider._

1 Launch the **Camera** app, tap MORE on the shooting modes list, and then tap **BIXBY VISION**.

2 Tap 📸 and point the camera towards the direction you want to search for places.
   You can view basic information about nearby places.
   • If you want to search for places in another direction, point the camera towards the direction.
   • To view available deals nearby, tap **Deals**.
   • You can view your current location and weather information. To view your current location on the map, point the camera towards the ground. To view the current weather information, point the camera towards the sky.

3 Select a search result on the screen.
   The device will show the information of nearby places and deals.
Experiencing various AR features

Various apps include the AR feature, which makes virtual images appear on the background or person on the preview screen. You can conveniently experience products and view information without visiting stores or trying them in person. Experience Bixby Vision’s fun and useful AR feature.

![Available apps may vary depending on the region or service provider.]

1. Launch the Camera app, tap MORE on the shooting modes list, and then tap BIXBY VISION.

2. Tap Apps and select the feature you want.

Bixby Home

On the Bixby Home screen, you can view recommended services and information that Bixby provides by analyzing your usage patterns and your routine.

- To view more content, connect to a Wi-Fi or mobile network.
- To fully use this feature, you must sign in to your Samsung account.
Opening Bixby Home

1. On the Home screen, swipe to the right.
   The Bixby Home screen will appear.
   When launching this feature for the first time or after performing a data reset, follow the on-screen instructions to complete the setup.

2. Swipe upwards or downwards to view recommended content.

3. To close Bixby Home, swipe to the left on the screen or tap the Back button.
Using recommended content on Bixby Home

When you open Bixby Home, you can view the content that is frequently updated as cards. Swipe upwards or downwards to view the cards.

For example, on the way to the office in the morning, you can view your day’s schedule and play your favourite music on the Bixby Home screen.

The content and order of the cards update automatically at a specified interval. You can update cards whenever you want by swiping downwards on the screen.

Editing cards list

- To pin a card to the top of the Bixby Home screen, tap → Pin to top. To unpin a card, tap → Unpin.
- To stop displaying a card on the list, drag the card to the right and tap Don’t show again.
- To hide a card from the list, drag the card to the right and tap Hide for now.

Selecting apps to show as cards

Add or delete apps to show as cards on the Bixby Home screen.

On the Bixby Home screen, tap → Cards, select an app, and then tap the switches next to items to add or delete them.

Customizing the Bixby Home settings

On the Bixby Home screen, tap → Settings.

- Samsung account: Sign in to your Samsung account.
- Customization Service: Set to use Bixby’s interactive and customized services to enhance your experience.
- Bixby Home content providers: Read and agree to or withdraw your agreement from the terms and conditions and privacy policies of each content provider.
- Privacy Policy: Read the privacy policies.
- About Bixby Home: View the Bixby Home version and legal information.
Bixby Routines

Bixby Routines is a service that automates settings you use repeatedly and suggests useful features according to your frequent situations by learning your usage patterns. For example, a ‘before bed’ routine will perform actions, such as turning on silent mode and dark mode, to reduce the effects of light and sound on your eyes and ears when you use the device before going to bed.

Adding routines

Add routines to use your device more conveniently. When you add a routine, you can set its running condition to auto or manual.

Adding recommended routines

When your device learns your usage patterns, it will recommend adding useful or frequently used features as routines. When the recommendation notification appears, tap View all and add it as your own routine.

Adding routines from the recommendation list

View the list of useful features and add them as your own routines.
1 Launch the **Settings** app and tap **Advanced features → Bixby Routines**.

2 On the **Discover** list, select a routine you want and tap **Save**.
   - To set the routine’s conditions and actions, tap **Edit**. Alternatively, tap the condition or action you want to edit.
   - If you want to set the routine’s running condition to manual, tap **Start button tapped**. This option will appear only when there are no running conditions set.
     For manual routines, you can add them to the Home screen as widgets and access them quickly. When a pop-up window appears, tap **Add**.

**Adding your own routines**

Add features you want to use as routines.

1 Launch the **Settings** app and tap **Advanced features → Bixby Routines → +**.

2 Tap +, set conditions, and then tap **Next**.
   - If you want to set the routine’s running condition to manual, tap **Start button tapped**.

3 Tap +, set actions, and then tap **Done**.

4 Enter a routine name and tap **Done**.
   - For manual routines, you can add them to the Home screen as widgets and access them quickly. When a pop-up windows appears, tap **Add**.
Using routines

Running auto routines
Auto routines will run automatically when their conditions are detected.

Running manual routines
For manual routines which you set the running condition as Start button tapped, you can run them manually by tapping the button whenever you want.
Launch the Settings app, tap Advanced features → Bixby Routines → My routines and tap next to the routine you want to run. Alternatively, tap the routine’s widget on the Home screen.

Viewing running routines
Currently running routines will appear on the notification panel. To view a routine’s details, tap the notification.

Stopping running routines
You can quickly stop running routines. On the notification panel, select a routine and tap Stop.

Managing routines
Launch the Settings app and tap Advanced features → Bixby Routines → My routines. Your routines will appear.
To deactivate a routine, tap the routine’s switch or .
To edit a routine, select a routine and tap Edit. Alternatively, tap the condition or action you want to edit.
To delete routines, tap → Delete, tick routines to delete, and then tap Delete.
Reminder

Create reminders to schedule to-do items or to view content later. You will receive notifications at the preset time or location for each reminder.

- To receive more accurate notifications, connect to a Wi-Fi or mobile network.
- To fully use this feature, you must sign in to your Samsung account.
- To use location reminders, the GPS feature must be activated.

Starting Reminder

Starting Reminder from Bixby Home

1. On the Home screen, swipe to the right. The Bixby Home screen will appear.

2. Tap Get started on the Reminder card. The Reminder screen will appear and the Reminder app icon (●) will be added to the Apps screen.
Starting Reminder from Calendar

Launch the **Calendar** app and tap → **Reminder**. The Reminder screen will appear and the **Reminder** app icon (口头) will be added to the Apps screen.

Creating reminders

Create reminders with various methods. Reminder will alert you if you create a reminder with a specified time or location setting. You can also save various content, such as a single memo or webpage address, and view it later.

For example, create a reminder to alert you to 'Water the flowers when I get home.'

1. Launch the **Reminder** app.
2. Tap **Write a reminder** or 和 and enter ‘Water the flowers.’
3. Tap **Place** → **Pick a place** and set the location to home.
4. Tap **When I arrive at** → **Done**.
5. Tap **Save** to save the reminder.

When you arrive at home, the ‘Water the flowers’ notification will appear.
Checking reminder notifications

At the preset time or location, a notification pop-up window will appear. Tap Complete or Snooze.

Viewing the reminders list

Launch the Reminder app to view your reminders list. To view reminder details, select a reminder.

Editing reminder details

Add or edit reminder details, such as frequency, date and time, or location.

1 On the reminders list, select a reminder to edit and tap Edit.

2 Edit the conditions and tap Save.
Completing reminders
Mark reminders that you do not need to be reminded of as complete. On the reminders list, select a reminder and tap Complete.

Restoring reminders
Restore reminders that have been completed.

1 On the reminders list, tap → Completed → Edit.

2 Tick items to restore and tap Restore.
Reminders will be added to the reminders list and you will be reminded at the preset times.

Deleting reminders
To delete a reminder, select a reminder and tap Delete. To delete multiple reminders, tap and hold a reminder, tick reminders to delete, and then tap Delete.
Phone

Introduction
Make or answer voice calls.

Making calls

1. Launch the **Phone** app and tap **Keypad**.
2. Enter a phone number.
3. Tap ✆ to make a voice call.

Add the number to the contacts list.

Preview the phone number.

(999) 999-9999

Access additional options.

Search for a contact.

Delete a preceding character.
Making calls from call logs or contacts list
Launch the Phone app, tap Recents or Contacts, and then swipe to the right on a contact or a phone number to make a call.
If this feature is deactivated, launch the Settings app, tap Advanced features → Motions and gestures, and then tap the Swipe to call or send messages switch to activate it.

Using speed dial
Set speed dial numbers to quickly make calls.
To set a number to speed dial, launch the Phone app, tap Keypad or Contacts → 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 circle.

Making calls by searching for nearby places
You can easily make calls to places near your current location by searching for their information. You can search for nearby places by category, such as restaurants or stores, or by selecting recommended hot places.
Launch the Phone app, tap Places, and then select a category or tap Q and enter a business name in the search field. Or, select one from the recommended hot places. The business’s information, such as its phone number or address, will appear.

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

Making an international call
1. Launch the Phone app and tap Keypad.
2. Tap and hold 0 until the + sign appears.
3. Enter the country code, area code, and phone number, and then tap .
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 **Send message** bar upwards and select a message to send. If the **Add reminder** switch is activated, a reminder will be saved to alert you of the rejected call one hour later.
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 Recents or Contacts, select contacts or phone numbers, and then tap Done.

   To manually enter a number, tap Add 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

If the area around the rear camera is covered, unwanted noises may incur during a call. Remove accessories, such as a screen protector or stickers, around the rear camera area.

During a voice call

The following actions are available:

- Access additional options.
- **Add call**: Dial a second call. The first call will be put on hold. When you end the second call, the first call will be resumed.
- **Hold call**: Hold a call. Tap **Resume call** to retrieve the held call.
- **Bluetooth**: Switch to a Bluetooth headset if it is connected to the device.
- **Speaker**: Activate or deactivate the speakerphone. When using the speakerphone, 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.
**Adding a phone number to Contacts**

**Adding a phone number to Contacts from the keypad**

1. Launch the *Phone* app and tap *Keypad*.
2. Enter the number.
3. Tap *Add to Contacts*.
4. Tap *Create new contact* to create a new contact, or tap *Update existing contact* 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 and tap *Add*, or tap a phone number and tap *Add to Contacts*.
3. Tap *Create new contact* to create a new contact, or tap *Update existing contact* to add the number to an existing contact.

**Adding a tag to a phone number**

You can add tags to numbers without saving them to Contacts. This allows you to view the caller’s information when they call without having them listed in Contacts.

1. Launch the *Phone* app and tap *Recents*.
2. Tap a phone number → *i*.
3. Tap *Add note*, enter a tag, and then tap *Add*.
   
   When a call comes from that number, the tag will show under the number.
Contacts

Introduction
Create new contacts or manage contacts on the device.

Adding contacts

Creating a new contact

1. Launch the Contacts app and tap +.
2. Select a storage location.
3. Enter contact information.
4. Tap Save.

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

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

1. Launch the **Contacts** app and tap → **Manage contacts** → **Import or export contacts** → **Import**.

2. Select a storage location to import contacts from.

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 **Accounts and backup** → **Accounts** and select the account to sync with.

2. Tap **Sync account** and tap the **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  at the top of the contacts list and enter search criteria.
Tap the contact. Then take one of the following actions:

- ⭐: Add to favourite contacts.
- 📞: Make a voice call.
- 📨: Compose a message.
- 💌: Compose an email.

**Sharing contacts**

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

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

**Saving and sharing profile**

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

- To use this feature, you must sign in to your Samsung account.
- The profile sharing feature may not be available depending on the region or service provider.
  - The profile sharing feature is only available for contacts who have activated the profile sharing feature on their device.

1. Launch the **Contacts** app and select your profile.
2. Tap **Edit**, edit your profile, and tap **Save**.
3. Tap **Tap here to share your profile** and tap the switch to activate it.
   - To use the profile sharing feature, your phone number must be verified. You can view your contacts’ updated profile information in **Contacts**.
   - To change the scope of contacts to share your profile with, tap **Select what’s shared**, select an item to share, and then select an option.
Creating groups
You can add groups, such as family or friends, and manage contacts by group.

1. Launch the Contacts app and tap \( \rightarrow \) Groups \( \rightarrow \) Create group.
2. Enter a group name.
   - To set a group ringtone, tap Group ringtone and select a ringtone.
3. Tap Add member, select contacts to add to the group, and then tap Done.
4. Tap Save.

Sending a group message
You can send a group message to a group's members at the same time.
Launch the Contacts app, tap \( \rightarrow \) Groups, select a group, and then tap \( \rightarrow \) Send message.

Merging duplicate contacts
When you import contacts from other storages, or sync contacts with 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 \( \rightarrow \) Manage contacts \( \rightarrow \) Merge contacts.
2. Tick contacts and tap Merge.

Deleting contacts

1. Launch the Contacts app and tap \( \rightarrow \) Delete.
2. Select contacts and tap Delete.

To delete contacts one by one, open the contacts list and tap a contact. Then tap \( \rightarrow \) 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 enter a message.
   
   To record and send a voice message, tap and hold 🎤, say your message, and then release your finger. The recording icon appears only while the message input field is empty.

3. Tap 🔄 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 or a phone number.
   - To reply to the message, tap the message input field, enter a message, and then tap 🔄.
   - To adjust the font size, spread two fingers apart or pinch on the screen.

Blocking unwanted messages

Block messages from specific numbers added to your block list.

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

2. Tap Conversations and select a contact or a phone number. Or, tap Contacts, select contacts, and then tap Done.
   
   To manually enter a number, enter a phone number under Enter phone number and tap ⬤.
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 → Advanced settings → Notification reminders, and then tap the switch to activate it.

Deleting messages

1. Launch the Messages app and tap Conversations.

2. On the messages list, select a contact or a phone number.

3. Tap and hold a message, then tap Delete.
   To delete multiple messages, tick messages you want to delete.

4. Tap Delete.
Internet

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

Browsing webpages

1 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 biometric data.

Activating secret mode

In the toolbar at the bottom of the screen, tap → 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, the device will change the colour of the toolbars.

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

Changing security settings

You can change your password or the lock method.

Tap → Settings → Privacy and security → Secret mode settings → Change password. To use your registered biometric data as a lock method along with the password, tap an option switch under Biometrics to activate it.

Deactivating secret mode

In the toolbar at the bottom of the screen, tap → Turn off Secret mode.
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 Side key twice quickly.
• On the locked screen, drag 📸 outside the 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 while the screen lock method is set.
• If photos you take appear blurry, clean the camera lens and try again.
Taking photos

1. Tap the image on the preview screen where the camera should focus.
   - Spread two fingers apart on the screen to zoom in, and pinch to zoom out. Alternatively, drag the lens selection icon to the left or right. Zooming features are available only when using the rear camera.
   - To adjust the brightness of photos, tap the screen. When the adjustment bar appears, drag the adjustment bar towards + or -.

2. Tap 📷 to take a photo.

- The preview screen may vary depending on the shooting mode and which camera is being used.
- The camera automatically shuts off when unused.
- Make sure that the lens is not damaged or contaminated. 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 or videos and does not indicate device performance problems.
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.

Selecting a lens for shooting
On the preview screen, select the lens you want and take a photo or record a video.

This feature is only available in some shooting modes.

- : The wide-angle lens lets you take basic photos or record normal videos.
- : The Ultra wide lens lets you take wide-angle photos or record wide-angle videos. Use this feature to take landscape photos.

To correct the distortion in photos taken with the Ultra wide lens, tap on the preview screen, tap Save options, and then tap the Ultra wide lens correction switch to activate it.
Using shooting modes

To change the shooting mode, drag the shooting modes list to the left or right, or swipe to the left or right on the preview screen.
Select a shooting mode you want.

Photo mode (Intelligent camera)

The camera adjusts the shooting options automatically depending on the surroundings to capture photos easily. The intelligent camera feature automatically recognizes the subject and optimizes the colour and any effects.

On the shooting modes list, tap PHOTO and tap 📷 to take a photo.

Scene optimizer

The camera adjusts the colour settings and applies the optimized effect automatically by recognizing the subject.

On the shooting modes list, tap PHOTO. When the camera recognizes the subject, the scene optimizer button will change and the optimized colour and effect will be applied.
• If this feature is not activated, tap on the preview screen and tap the **Scene optimizer** switch to activate it.

• To use additional features, tap on the preview screen, tap **Scene optimizer**, and then tap the switches next to the features you want.

• If you do not want to use this feature, tap the scene optimizer button on the preview screen.

**Shot suggestions**

The camera suggests the ideal composition for the photo by recognizing the position and angle of your subject.

On the preview screen, tap and tap the **Shot suggestions** switch to activate it.

1. On the shooting modes list, tap **PHOTO**.
   
   A guide will appear on the preview screen.

2. Point the guide at the subject.
   
   The camera recognizes the composition, and the recommended composition appears on the preview screen.
3 Adjust the position and angle of the camera to fit the composition. When the ideal composition is achieved, the guide will change to yellow.

4 Tap ○ to take a photo.

Taking selfies
You can take self-portraits with the front camera.

1 On the shooting modes list, tap PHOTO.

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

3 Face the front camera lens.
   To take self-portraits with a wide-angle shot of the landscape or people, tap 📸.

4 Tap ○ to take a photo.
Applying filter and beauty effects
You can select a filter effect and modify facial features, such as your skin tone or face shape, before taking a photo.

1. On the preview screen, tap 📸.
2. Select a filter effect or beauty effects and take a photo.

Video mode
The camera adjusts the shooting options automatically depending on the surroundings to record videos easily.

1. On the shooting modes list, tap VIDEO.

2. Tap 🎥 to record a video.
   • 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 use auto focus mode, tap AF to cancel the manually set focus.

3. Tap 🎬 to stop recording the video.
Live focus mode

Take photos that focus on the face and blur the background. You can also apply a background effect and edit it after taking a photo.

• Use this feature in a place that has sufficient light.
• The background blur may not be applied properly in the following conditions:
  - The device or the subject is moving.
  - The subject has a similar colour to the background.

Taking portraits that stand out using the Live focus feature

1. On the shooting modes list, tap LIVE FOCUS.
2. Drag the background blur adjustment bar to the left or right to adjust the blur level.
3 When Ready appears on the preview screen, tap to take a photo.

Editing the background of the Live Focus photos
You can also edit the background effect and the intensity of the background effect for a photo taken with the Live focus feature.

1 Select a photo taken with the Live focus feature and tap Change background effect.

2 Select a background effect you want.
   To adjust the intensity of the background effect, drag the adjustment bar to the left or right.

3 Tap Apply to save the photo.
**Super Slow-mo mode**

Super slow motion is a feature that records a quickly passing moment slowly so that you can appreciate it later. After the video is recorded, background music is added automatically.

- Some super slow motion features may differ depending on the model.
- Use this feature in a place that has sufficient light. When recording a video indoors with insufficient or poor lighting, some of the following situations may occur:
  - The screen may appear dark due to the small amount of light.
  - The screen may flicker in certain lighting conditions, such as in places with fluorescent lighting.
  - Noise may occur.

**Recording super slow motion videos**

Record a video by capturing a single moment that the subject is moving.

1. On the shooting modes list, tap MORE → SUPER SLOW-MO.

   ![Camera settings](image)

2. Tap 📽️.

   The device will capture the moment in super slow motion and save it as a video.
Playing super slow motion videos

Select a super slow motion video and tap Play super slow-mo video. Random background music will automatically accompany the video during playback. To capture an image while playing a video, tap.

Editing super slow motion videos

On the playback screen, you can edit the video and save it as a different file or share it. To crop out a desired section of the video, drag the start bracket and the end bracket to the desired points to select the section to keep. To edit the super slow motion section, drag to the left or right.

Slow motion mode

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 MORE → 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 **Play slow motion video**.

The fastest section of the video will be set as a slow motion section and the video will start playing. Up to two slow motion sections will be created based on the video.

To edit the slow motion section, drag to the left or right.

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**Pro mode**

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

On the shooting modes list, tap **MORE → PRO**. Select options and customize the settings, and then tap to take a photo.

**Available options**

- **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.

- **WB**: Select an appropriate white balance, so images have a true-to-life colour range. You can set the colour temperature.

- ** EV**: Change the exposure value. This determines how much light the camera’s sensor receives. If the image is too dark, increase the exposure. If the image is too light, reduce the exposure.
Separating the focus area and the exposure area
You can separate the focus area and the exposure area.
Tap the preview screen where you want the focus area to lock and hold until the AF/AE lock frame appears on the screen, separates into AF lock and AE lock frames, then rejoins to the AF/AE lock frame. Tap again and drag the AE lock frame to the location where you want the exposure area to lock.

Panorama mode
Using panorama mode, take a series of photos 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 MORE → PANORAMA.
2. Tap and move the device slowly in one direction.
3. Tap to stop taking photos.
**Food mode**

Take photos of food with vibrant colours and blurred edges.

1. On the shooting modes list, tap **MORE → 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 \( \bigcirc \) and drag the adjustment bar to adjust the colour tone.

4. Tap \( \bigcirc \) to take a photo.

**Night mode**

Take a photo in low-light conditions, without using the flash.

On the shooting modes list, tap **MORE → NIGHT**.

**Hyperlapse mode**

Record scenes, such as passing people or cars, and view them as fast-motion videos.

1. On the shooting modes list, tap **MORE → HYPERLAPSE**.

2. Tap \( \bigcirc \) and select a frame rate option.
   
   If you set the frame rate to \( \bigcirc \) (**Auto**), the device will automatically adjust the frame rate according to the changing rate of the scene.
3 Tap 🎬 to start recording.

4 Tap 🎬 to finish recording.

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

Customizing camera settings

Options for current shooting mode

On the preview screen, use the following options.

The available options may vary depending on the shooting mode.

- 📷: Activate or deactivate the flash.
- ⏳: Select the length of the delay before the camera automatically takes a photo.
- 📦: Select an aspect ratio for photos.
- 💄: Apply beauty effects or a filter effect.
- 📜: Select a frame rate.
- 📦: Select an aspect ratio for videos.
- 🤼: Stabilize a video.
- 📝: Record fun videos with virtual handwriting or drawings on faces or anywhere else. Refer to AR Doodle for more information.
- ⏰: 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.
- 🍴: In Food mode, focus on a subject inside the circular frame and blur the image outside the frame.
- 🍳: In Food mode, adjust the colour tone.
Camera settings

On the preview screen, tap 📷. Some options may not be available depending on the shooting mode.

Intelligent features

• **Scene optimizer**: Set the device to adjust the colour settings and apply the optimized effect automatically depending on the subject or scene.

• **Shot suggestions**: Set the device to suggest the ideal composition for the photo by recognizing the position and angle of your subject.

• **Scan QR codes**: Enable or disable the QR code reader.

Pictures

• **Hold Shutter button to**: Select an action to perform when you tap and hold the camera button.

• **Save options**: Select how you want to save photos.

Videos

• **Rear video size**: Select a resolution for videos you want to take with the rear camera. Using a higher resolution will result in higher quality videos, but they will take up more storage space.

• **Front video size**: Select a resolution for videos you want to take with the front camera. Using a higher resolution will result in higher quality videos, but they will take up more storage space.

• **High efficiency video**: Record videos in the High Efficiency Video Codec (HEVC) format. Your HEVC videos will be saved as compressed files to conserve the device’s memory.
  - You cannot play the HEVC videos on other devices or share them online.
  - Super slow motion and slow motion videos cannot be recorded in the HEVC format.

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

- **HDR (rich tone):** Take photos with rich colours and reproduce details even in bright and dark areas.
- **Pictures as previewed:** Set the device to save photos as they appear on the preview screen when taken with the front camera (without flipping them).
- **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.
- **Shooting methods:** Select additional shooting methods for taking a photo or recording a video.
- **Storage location:** Select the memory location for storage. This feature will appear when you insert a memory card.
- **Watermark:** Add a watermark in the bottom left corner when taking pictures.
- **Reset settings:** Reset the camera settings.
- **Contact us:** Ask questions or view frequently asked questions.
- **About Camera:** View the Camera app version and legal information.
Gallery

Introduction

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

Viewing images

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

   ![Image options](image)

   - Access additional options.
   - Bixby Vision
   - Modify the image.
   - Share the image with others.
   - Add the image to favourites.
   - Delete the image.

You can create an animated GIF or collage from multiple images. On the list, tap → **Create GIF** or **Create collage**, and then select images.
Searching for images
Launch the Gallery app and tap to view images sorted by category, such as types or locations.
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.
3. Tap Play video to play the video.

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.
Viewing the details of images and videos

While viewing an image or on the video preview screen, drag upwards on the screen. File details will appear.

You can also view related content by tapping information on the screen.

Viewing photos or videos by category

You can view photos and videos by category.

Launch the Gallery app, tap Pictures or Albums, and then select a category.

• Videos: View the videos saved in your device.
• Favourites: View your favourite photos and videos.
• Recent: View recent photos and videos.
• Suggested: View recommended content.
**Viewing albums**

You can view your images and videos sorted by folders or albums. Launch the **Gallery** app, tap **Albums**, and then select an album.

**Hiding albums**

You can hide albums.

You cannot hide albums created by default, such as the **Camera** and **Screenshots** albums.

1. Launch the **Gallery** app and tap **Albums**.
2. Tap → **Hide or unhide albums**.
3. Tap an album switch to hide.

**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. Launch the **Gallery** app, tap **Stories**, and then select a story.

**Creating stories**

Create stories with various themes.

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

When you sync your Gallery app with Samsung Cloud, photos and videos you take will also be saved in Samsung Cloud. You can view images and videos saved in Samsung Cloud in your Gallery app and from other devices.

Launch the Gallery app, tap → Settings, and then tap the Cloud sync switch to activate it. The Gallery app and Samsung Cloud will be synced.

Deleting images or videos

1. Launch the Gallery app.
2. Select an image or a video to delete.
   - To delete multiple files, tap and hold a file to delete on the list and tick more files to delete.
3. Tap or Delete.

Using the Trash feature

You can keep the deleted images and videos in the trash. The files will be deleted after a certain period.

Launch the Gallery app, tap → Settings, and then tap the Trash switch to activate it.

To view files in the trash, launch the Gallery app and tap → Trash.
AR EMOJI

Introduction

Create a My Emoji that looks just like you, and take photos and record videos using My Emojis, character Emojis, or stickers.

You can customize My Emoji’s features, such as the face shape or hairstyle, and decorate My Emoji with various accessories. You can also express yourself in fun ways using My Emoji stickers during a conversation.
Creating My Emoji

Make a My Emoji that looks like you. My Emoji stickers with various expressions will be automatically generated.

1. Launch the **Camera** app, tap **MORE** on the shooting modes list, and then tap **AR EMOJI → Create My Emoji**.

2. Align your face on the screen and tap 📸 to take a photo.

3. Select My Emoji’s gender and age range and tap **Next**.

4. Decorate a My Emoji and tap **Next**.

5. Tap **Done**.

   The My Emoji and My Emoji stickers are now created. You can view My Emoji stickers in the My Emoji Studio. Refer to **My Emoji stickers** for more information.

![Create My Emoji]

You can use the **AR EMOJI** feature in both the front and rear cameras. If you are using the rear camera, it will automatically switch to the front camera. To switch between cameras, swipe upwards or downwards on the preview screen.

Deleting My Emoji

Launch the **Camera** app, tap **MORE** on the shooting modes list, and then tap **AR EMOJI**. Tap and hold the My Emoji that you want to delete and tap ✖. The My Emoji and My Emoji stickers will be deleted.
Customizing My Emoji

Edit or decorate a My Emoji in the My Emoji Studio. You can also create your own My Emoji stickers.

Available options may vary depending on the region or service provider.

My Emoji Studio

Launch the Camera app, tap MORE on the shooting modes list, and then tap AR EMOJI → Studio. My Emoji Studio will appear.
My Emoji stickers

Create your own stickers with My Emoji expressions and actions. You can use My Emoji stickers when sending messages or on a social network.

Viewing My Emoji stickers

In the My Emoji Studio, tap Stickers. Then, you can view My Emoji stickers.

Creating your own stickers

1. In the My Emoji Studio, tap Stickers → Make custom stickers.

2. Edit stickers how you want.
   - 🎨: Add stickers.
   - 🎨: Select the sticker’s background.
   - 🎨: Select an expression.
   - 🎨: Select an action.
   - 🎨: Enter text.
   - 🎨: Write or draw on stickers.

3. Tap Save.
Using My Emoji stickers in chats

You can use My Emoji stickers during a conversation via messages or on a social network. The following actions are an example of using My Emoji stickers in the Messages app.

1. While composing a message in the Messages app, tap on the Samsung keyboard.
2. Tap the My Emoji icon.
3. Select one of the My Emoji stickers.
   The My Emoji sticker will be inserted.

Deleting My Emoji stickers

On the Samsung keyboard, tap and tap at the bottom of the keyboard. Select the My Emoji stickers you want to delete and tap Delete.
Capturing photos or videos with My Emoji

Create fun photos or videos with My Emoji using various shooting modes.

1. Launch the **Camera** app, tap **MORE** on the shooting modes list, and then tap **AR EMOJI**.

2. Select a My Emoji you want to use.
Select the mode you want to use.

- **Mask**: My Emoji’s face appears over your face so it looks like you are wearing a mask.
- **Basic**: My Emoji mimics your expressions.

Tap 📷 to take a photo, or swipe to the left on the preview screen and tap 📺 to record a video.

You can view and share the photos and videos that you have captured in **Gallery**.

**Capturing photos or videos with character Emojis or stickers**

Character Emojis mimic your expressions. You can also apply sticker effects that follow your face.

1. Launch the **Camera** app, tap MORE on the shooting modes list, and then tap **AR EMOJI**.
2. Select a character Emoji, or tap **Stickers** and select a sticker you want to use.
3. Tap 📷 to take a photo, or swipe to the left on the preview screen and tap 📺 to record a video.

You can view and share the photos and videos that you have captured in **Gallery**.
AR Doodle

Record fun videos with virtual handwriting or drawings on faces or anywhere else. When the camera recognizes a face or space, the doodles on the face will follow the face as it moves, and the doodles in the space will be fixed in the same place even if the camera moves.

1. Launch the Camera app and tap VIDEO on the shooting modes list.

2. Tap mode and select a mode you want.
   - **Face**: Doodle on a face.
   - **Everywhere**: Doodle anywhere else.

3. Write or draw in the recognition area.
   - If you tap and begin to doodle, you can record yourself doodling.

4. Tap to record a video.

5. Tap to stop recording the video.
   - You can view and share the video in Gallery.
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 button to open the list of recently used apps.

2. Swipe to the left or right, tap an app's icon, and then tap **Open in split screen view**.
   The selected app will launch in the upper window.

3. On the lower window, swipe left or right to select another app to launch.
   To launch apps not on the list of recently used apps, tap the Home button or Back button and select an app.

**Adjusting the window size**

Drag the bar between the app windows up or down to adjust the size of the windows.
When you drag the bar between the app windows to the top or bottom edge of the screen, the window will be maximized.
Pop-up view

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

2 Swipe to the left or right, tap an app’s icon, and then tap Open in 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 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. You can also compare your step count records with other Samsung Health users, compete with your friends, and view health tips.

Using Samsung Health

Launch the Samsung Health app. 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.

Some features may not be available depending on the region.

To add items to the Samsung Health home screen, tap Manage items at the bottom of the trackers list and tap + on the items to add.
Together
Together allows you to set up step count goals and compete with your friends. You can invite friends to walk together, set target step counts, compete in challenges, and view your ranking.

On the Samsung Health home screen, tap Together.

Steps
The device counts the number of steps you take and measures the distance travelled.

On the Samsung Health home screen, tap the steps tracker.

- You may experience a brief delay while the steps tracker monitors your steps and then displays your step count. You may also experience a brief delay before the pop-up window indicates that your goal has been reached.
- If you use the steps tracker while travelling by car or train, vibration may affect your step count.
- You can check your current steps on the notification panel. To turn off notifications, on the Samsung Health home screen, tap → → Notifications, and then tap the Steps switch under Categories to deactivate it. Alternatively, open the notification panel, tap and hold the notification, tap Details, and then tap the Steps switch to deactivate it.
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 Erase personal 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 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.
**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.

To submit your feedback or post your comments, you must sign in to your Samsung account. Refer to [Samsung account](#) for more information.

**Samsung Notes**

Create notes by entering text from the keyboard or by handwriting or drawing on the screen. You can also insert images or voice recordings into your notes.

**Creating notes**

1. Launch the *Samsung Notes* app and tap `+`.
2. Select an input method from the toolbar at the top of the screen and compose a note.
   - Enter text using the keyboard.
   - Write or draw with pens.
   - Paint with brushes.
   - Insert files.
3. When you are finished composing the note, tap **Save**.
Deleting notes

1. Launch the Samsung Notes app.
2. Tap and hold a note to delete.
   To delete multiple notes, tick more notes to delete.
3. Tap Delete.

Galaxy Wearable

Galaxy Wearable is an app that allows you to manage your wearable devices. When you connect your device to the wearable device, you can customize the wearable device’s settings and apps.

Launch the Galaxy Wearable app.

Tap Get started to connect your device to the wearable device. Follow the on-screen instructions to finish the setup. Refer to the wearable device’s user manual for more information about how to connect and use the wearable device with your device.

Calendar

Manage your schedule by entering upcoming events or reminders 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 +.
Apps and features

2 Enter event details.

3 Tap Save to save the event.

Creating reminders

You can create tasks as reminders and receive notifications at the preset time or location for each reminder. Launch the Calendar app and tap → Reminder. The Reminder app will launch. Refer to Reminder for more information.

Syncing events with your accounts

1 Launch the Settings app, tap Accounts and backup → Accounts, and then select the account to sync with.

2 Tap Sync account and tap the 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 → Add new account. Then, select an account to sync with and sign in. When an account is added, a blue circle is displayed next to the account name.
**My Files**

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

Launch the My Files app.

View files that are stored in each storage.

To check for unnecessary data and free up the device’s storage, tap Analyze storage.

To search for files or folders, tap Q.

**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 map, and then tap Add.
To use the time zone converter, tap → Time zone converter.

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.
   To add a frequently used timer, tap +, set the duration and name, and then tap Add.

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.

- **amilies Cl** : View the calculation history. To clear the history, tap **Clear history**. To close the calculation history panel, tap \.[
- **amilies Cl** : Use the unit conversion tool. You can convert various values, such as area, length, or temperature, into other units.
- **amilies Cl** : Display the scientific calculator.

**Game Launcher**

**Introduction**

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

1. Launch the **Game Launcher** app.

   - If **Game Launcher** does not appear, launch the **Settings** app, tap **Advanced features**, and then tap the **Game Launcher** switch to activate it.

2. Drag the Library panel upwards and tap a game.

   - Games downloaded from **Play Store** and **Galaxy Store** will be automatically shown on the Game Launcher screen. If you cannot see your games, drag the Library panel upwards and tap ➔ **Add apps**.

Removing a game from Game Launcher

Drag the Library panel upwards, tap and hold a game, and then tap **Remove from Game Launcher**.

Changing the performance mode

You can change the game performance mode.

Launch the **Game Launcher** app, tap ➔ **Game performance** ➔ **Game performance**, and then select the mode you want.

- **Focus on performance**: This focuses on giving you the best possible performance while playing games.
- **Balanced**: This balances the performance and the battery usage time.
- **Focus on power saving**: This saves battery power while playing games.

- Battery power efficiency may vary by game.
Game Booster

Introduction
Game Booster lets you play games in a better environment and provides you with useful options via the Game Booster panel.

Using Game Booster
To open the Game Booster panel while playing games, tap on the navigation bar. If the navigation bar is hidden, drag upwards from the bottom of the screen to show it. If you have set the navigation bar to use Full screen gestures, open the notification panel and tap Tap to open Game Booster.

- You can set to open the Game Booster panel from the navigation bar while the navigation bar is set to Full screen gestures. On the Game Booster panel, tap Block during game and tap the Full screen gestures switch to activate it.
- Available options may vary depending on the game.

- : Configure settings for Game Booster.
- Monitoring temperature / Monitoring memory: Set the device to automatically adjust settings to prevent device overheating and to stop apps running in the background to better manage memory.
- Block during game: Lock some features during games.
- Navigation button lock: Hide the buttons on the navigation bar. To display the buttons, tap on the navigation bar.
- Screen touch lock: Lock the touchscreen while the game is being played. To unlock the touchscreen, drag the lock icon in any direction.
- Screenshot: Capture screenshots.
- Record: Record your game sessions. To stop recording, tap on the navigation bar.
Launching apps in pop-up windows while playing games

You can launch apps in pop-up windows while playing a game.
Tap and select an app from the apps list.
To edit the apps list, tap .

Kids Home

Introduction

You can restrict children’s access to certain apps, set their usage times, and configure settings to provide a fun and safe environment for children when they use the device.

Using Kids Home

Open the notification panel, swipe downwards, and then tap (Kids Home) to activate it. The Kids Home screen will appear. When starting Kids Home for the first time or after performing a data reset, follow the on-screen instructions to complete the setup.
On the Kids Home screen, select the app you want to use.
Your preset screen lock method or your created PIN will be used when activating the Parental control feature or closing Kids Home.

Using parental control features
You can configure the settings for Kids Home and view the usage history.
On the Kids Home screen, tap → Parental control and enter your unlock code.

- Kid’s name: Manage your child’s profile.
- Set daily playtime: Restrict the usage time for Kids Home.
- Daily usage: View the daily usage time of Kids Home.
- Activity: View the activity history of Kids Home.
- Frequently contacted: View the frequently used contacts in Kids Home.
- My kid’s creations: View the works created from the apps in Kids Home.
- Allowed content: Check the apps or content supported by Kids Home and add them.
- Show Content page: Set the device to display the Samsung partner’s content page on the Kids Home screen.

Closing Kids Home
To close Kids Home, tap the Back button or tap → Close Kids Home, and then enter your unlock code.
SmartThings

Introduction

Control and manage smart appliances and Internet of Things (IoT) products with your smartphone.

- **Connecting with nearby devices**: Connect with nearby devices, such as Bluetooth headsets or wearable devices, easily and quickly.

- **Registering and controlling home appliances, TVs, and IoT products**: Register smart refrigerators, washers, air conditioners, air purifiers, TVs, and Internet of Things (IoT) products on your smartphone, and view their status or control them from your smartphone’s screen.

- **Receiving notification**: Receive notifications from connected devices on your smartphone. For example, when the laundry is finished, you can receive a notification on your smartphone.

- To use SmartThings, your smartphone and other devices must be connected to a Wi-Fi or mobile network. To fully use SmartThings, you must sign in to your Samsung account.

- The devices you can connect may vary depending on the region or service provider. Available features may differ depending on the connected device.

- Connected devices’ own errors or defects are not covered by the Samsung warranty. When errors or defects occur on the connected devices, contact the device’s manufacturer.
Connecting to nearby devices

Connect to nearby devices, such as Bluetooth headsets, easily and quickly.

Connection methods may vary depending on the type of connected devices or the shared content.

1. Launch the SmartThings app.
2. Tap Add device or tap → Device.
3. Tap Scan.
4. Select a device from the list and connect to it by following the on-screen instructions.

Using home appliances, TVs, and IoT products

View the status of your smart appliances, TVs, and IoT products from your smartphone’s screen. You can group devices by location and add rules to control the devices easily and conveniently.

Connecting devices

1. Launch the SmartThings app.
2. Tap Add device or tap → Device.
3. Select a device type.
   - Or, tap Scan or tap the search field to search for devices.
   - You can also tap to connect devices by scanning the QR code.
4. Follow the on-screen instructions to connect devices.
Apps and features

Viewing and controlling connected devices
You can view and control the devices. For example, you can check the ingredients in your refrigerator or adjust the TV volume.

1 Launch the SmartThings app.
   The list of connected devices will appear.

2 View the status of devices on the list.
   To control the devices, select a device. When the device controller supplied with the selected device is downloaded, you can control the device.

Adding devices and scenes by locations
Add devices by locations, view the list of devices in a same location, and control them. You can also add a scene to a location to control multiple devices at the same time.

Adding locations

1 Launch the SmartThings app and tap → → Add location.

2 Enter the location name.
   • To set a location, tap Geolocation to select a location on the map and tap Done.
   • To add rooms to the location, tap Rooms, tick rooms you want to add, and then tap Done.

3 Tap Done.
   Your location will be added.
   To add devices to the location, tap Add device or tap → Device and follow the on-screen instructions to register devices.
Adding scenes
Add a scene and register devices to it to control multiple devices at the same time.

1. Launch the *SmartThings* app.
2. Tap `→` and select a location.
3. Tap `→ Scenes → Add scene`.
4. Enter the scene name.
5. Tap `+` under *Actions* to add actions to perform.
6. Tap *Save*.

Adding automations
You can also set an automation to operate devices automatically depending on the preset time, the status of devices, and more.

For example, add an automation to turn on the audio automatically every day at 7:00 AM.

1. Launch the *SmartThings* app.
2. Tap `→` and select a location.
4. Tap `+` under *If*, set the activation conditions for the automation, and then tap *Next*.
5. Tap `+` under *Then*, set actions to perform, and then tap *Done*.
6. Enter the automation name and tap *OK*.

Receiving notifications
You can receive notifications from connected devices on your smartphone. For example, when the laundry is finished, you can receive a notification on your smartphone.

To set devices to receive notifications, launch the *SmartThings* app, tap `→ → Notifications`, and then tap the switches next to the devices you want.
Sharing content

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 message and email.

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.
Using additional features

- **Send to device**: Share content with nearby devices via Wi-Fi Direct or Bluetooth, or with SmartThings supported devices.
- **Smart View**: View your device’s displayed content on a large screen by connecting your device to a screen mirroring-enabled TV or monitor.
- **Link Sharing**: Share large files. Upload files to the Samsung storage server and share them with others via a Web link. To use this feature, you must sign in to your Samsung account.
- **Shared album**: Create a shared album to share photos or videos with others, and download your files whenever you want. To use this feature, you must sign in to your Samsung account.

Samsung Global Goals

The Global Goals, which were established by the United Nations General Assembly in 2015, aim to create a sustainable society. These goals have the power to end poverty, fight inequality, and stop climate change.

With Samsung Global Goals, learn more about the global goals and join the movement for a better future.

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.

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.

YT Music
Enjoy various music and videos provided by YouTube Music. You can also view the music collections stored on your device and play them.

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

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

YouTube
Watch or create videos and share them with others.

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

Google
Search quickly for items on the Internet or your device.

Duo
Make a simple video call.
Settings

Introduction

Customize device settings. You can make your device more personalized by configuring various setting options.

Launch the Settings app.

To search for settings by entering keywords, tap Q.

Connections

Options

Change settings for various connections, such as the Wi-Fi feature and Bluetooth.

On the Settings screen, tap Connections.

- **Wi-Fi**: Activate the Wi-Fi feature to connect to a Wi-Fi network and access the Internet or other network devices. Refer to Wi-Fi for more information.
- **Bluetooth**: Use Bluetooth to exchange data or media files with other Bluetooth-enabled devices. Refer to Bluetooth for more information.
- **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.
- **NFC and payment**: Set the device to allow 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. Refer to NFC and payment for more information.
- **Flight mode**: Set the device to disable all wireless functions on your device. You can use only non-network services.
  
  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.
- **Mobile networks**: Configure your mobile network settings.
• **Data usage**: Keep track of your data usage amount and customize the settings for the limitation. Set the device to automatically disable the mobile data connection when the amount of mobile data you have used reaches your specified limit. You can also activate the data saver feature to prevent some apps running in the background from sending or receiving data. Refer to Data saver for more information.

• **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, or USB. Refer to Mobile Hotspot and Tethering for more information.

• **More connection settings**: Customize settings to control other features. Refer to More connection settings for more information.

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**Wi-Fi**

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

**Connecting to a Wi-Fi network**

1. On the Settings screen, tap **Connections → Wi-Fi** and 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 from connecting to the network automatically, tap the switch next to the network and tap the **Auto reconnect** switch to deactivate it. To delete the saved connection information for a network, tap the switch next to the network 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 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, turn 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 receive the image.

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 tap the switch to activate it. The detected devices will be listed.

2. Select a device to pair with.
   - If the device you want to pair with is not on the list, set the device to enter Bluetooth pairing mode. Refer to the other device’s user manuals.

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 📐 → **Bluetooth** and select a device to receive the image. If the device you want to pair with is not in the list, turn 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 ⚒️ next to the device name to unpair.
3. Tap **Unpair**.
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 battery contains a built-in NFC antenna. Handle the battery carefully to avoid damaging the NFC antenna.

Reading information from NFC tags

Use the NFC feature to 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 with the NFC feature

Transfer data, such as images or contacts, with other devices by touching your device’s NFC antenna to 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.

4. 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.
Data saver

Reduce your data usage by preventing some apps running in the background from sending or receiving data.

On the Settings screen, tap Connections → Data usage → Data saver and tap the switch to activate it.

When the data saver feature is activated, the icon will appear on the status bar.

To select apps to use data without restriction, tap Allow app while Data saver on and select apps.

Mobile data only apps

Select apps to always use the mobile data even when your device is connected to a Wi-Fi network.

For example, you can set the device to use only mobile data for apps that you want to keep secure or streaming apps that can be disconnected. Even if you do not deactivate the Wi-Fi feature, the apps will launch using the mobile data.

On the Settings screen, tap Connections → Data usage → Mobile data only apps, tap the switch to activate it, and then tap the switches next to the apps you want.

You may incur additional charges when using this feature.
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 or USB.

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.
- **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.
   - To connect without entering the password, tap and scan the QR code with the other device.

If the mobile hotspot is not found, on your device, set **Band** to **2.4 GHz**, tap → Configure Mobile Hotspot, and then deselect **Hide my device**.

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

You can share your device’s mobile data connection with other devices signed in to your Samsung account without entering a password.

Tap the Auto Hotspot switch to activate it.

More connection settings

Customize settings to control other connection 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.
- **VPN**: Set up virtual private networks (VPNs) on your device to connect to a school or company’s private network.
- **Private DNS**: Set the device to use the security enhanced private DNS.
- **Ethernet**: When you connect an Ethernet adapter, you can use a wired network and configure network settings.

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.

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.

2. Search for a printer plug-in in Play Store.
3. Select a printer plug-in and install it.
4  Select the installed printer plug-in.
    The device will automatically search 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 → Add printer.

Printing content
While viewing content, such as images or documents, access the options list, tap Print → All printers..., and then select a printer.

Printing methods may vary depending on the content type.

MirrorLink
You can display your device's screen on the vehicle's head unit monitor.
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 → More connection settings → 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.
Sounds and vibration

Options

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.
- **Temporary mute**: Set the device to use silent mode for a certain period.
- **Ringtone**: Change the call ringtone.
- **Notification sound**: Change the notification sound.
- **Volume**: Adjust the device’s volume level.
- **Vibration pattern**: Select a vibration pattern.
- **System sound**: Set the device to sound for actions, such as controlling the touchscreen.
- **Sound quality and effects**: Set the device’s sound quality and effects. Refer to Dolby Atmos (surround sound) for more information.
- **Separate app sound**: Set the device to play media sound from a specific app separately on the other audio device. Refer to Separate app sound for more information.

Dolby Atmos (surround sound)

Select a surround sound mode optimized for various types of audio, such as movies, music, and voice. With Dolby Atmos, you can experience moving audio sounds that flow all around you.

On the Settings screen, tap Sounds and vibration → Sound quality and effects → Dolby Atmos, tap the switch to activate it, and then select a mode.

⚠️ Before you use this feature, you must connect an earphone.
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.

1. On the Settings screen, tap Sounds and vibration → Separate app sound and tap the switch to activate it.

2. Select an app to play media sounds separately and tap the Back button.

3. Select a device for playing the selected app’s media sound.

Notifications

Change the notification settings.

On the Settings screen, tap Notifications.

- Suggest actions and replies: Set the device to suggest actions and replies for notifications.
- Show snooze option: Set whether to show the snooze option.
- App icon badges: Change the settings for app icon badges.
- Status bar: Set how to display notification icons and whether to show the remaining battery percentage on the status bar.
- 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.
- Do not disturb: Set the device to mute all sounds except for allowed exceptions.
- Recently sent: View the apps that received recent notifications and change the notification settings. To customize notification settings for more apps, tap See all → All and select an app from the apps list.
Display

Options

Change the display and the Home screen settings.

On the Settings screen, tap Display.

- **Brightness**: Adjust the brightness of the display.
- **Adaptive brightness**: Set the device to keep track of your brightness adjustments and apply them automatically in similar lighting conditions.
- **Dark mode**: Reduce eye strain by applying the dark theme when using the device at night or in a dark place. Refer to Dark mode for more information.
- **Font size and style**: Change the font size and style.
- **Screen zoom**: Change the screen zoom setting.
- **Full screen apps**: Select apps to use with the full screen aspect ratio. You can also set the device to hide the front camera from the screen.
- **Screen timeout**: Set the length of time the device waits before turning off the display’s backlight.
- **Home screen**: Configure settings for the Home screen, such as the screen grid or layout.
- **Easy mode**: Switch to easy mode to display larger icons and apply a simpler layout to the Home screen.
- **Navigation bar**: Change the navigation bar settings. Refer to Navigation bar (soft buttons) for more information.
- **Touch sensitivity**: Increase the touch sensitivity of the screen for use with screen protectors.
- **Screensaver**: Set the device to launch a screensaver when the device is charging. Refer to Screensaver for more information.
**Dark mode**

Reduce eye strain by applying the dark theme when using the device at night or in a dark place.

- The dark theme may not be applied in some apps.
- You can quickly activate or deactivate dark mode on the notification panel. Open the notification panel, swipe downwards, and then tap (Dark mode).

1. On the Settings screen, tap **Display → Dark mode** and tap the **Turn on now** switch to activate it.

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

**Screensaver**

You can set to display images as a screensaver when the screen turns off automatically. The screensaver will be displayed when the device is charging.

1. On the Settings screen, tap **Display → Screensaver**.

2. Select an option.
   - If you select **Photo Frame** or **Photos**, a slideshow with selected images will start. If you select **Photo Table**, selected images will appear as small cards and overlap.

3. Tap 📷 to select albums for displaying images.

4. When you are finished, tap the Back button.
   - To preview the selected option, tap **Preview**.

When you tap the screen while your screensaver is displayed, the screen will turn on.
Wallpaper

Change the wallpaper settings for the Home screen and the locked screen.
On the Settings screen, tap **Wallpaper**.

Themes

Apply various themes to the device to change the visual elements of the Home screen, locked screen, and icons.
On the Settings screen, tap **Themes**.

- **Themes**: Change the device’s theme.
- **Wallpapers**: Change the wallpaper settings for the Home screen and the locked screen.
- **Icons**: Change the icon style.

Lock screen

Options

Change the settings for the locked screen.
On the Settings screen, tap **Lock screen**.

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. Refer to **Smart Lock** for more information.
- **Secure lock settings**: Change screen lock settings for the selected lock method.
- **Wallpaper services**: Set the device to use wallpaper services such as Dynamic Lock screen.
- **Clock style**: Change the type and colour of the clock on the locked screen.
- **Roaming clock**: Change the clock to show both the local and home time zones on the locked screen when roaming.
- **FaceWidgets**: Change the settings of the items displayed on the locked screen.
Settings

- **Contact information**: Set the device to show contact information, such as your email address, on the locked screen.
- **Notifications**: Set how to show notifications on the locked screen.
- **Shortcuts**: Select apps to display shortcuts to them on the locked screen.
- **About Lock screen**: View the Lock screen version and legal information.

**Smart Lock**

You can set the device to unlock itself and remain unlocked when trusted locations or devices are detected.

For example, if you have set your home as a trusted location, when you get home your device will detect the location and automatically unlock itself.

- This feature will be available to use after you set a screen lock method.
- If you do not use your device for four hours or when you turn on the device, you must unlock the screen using the pattern, PIN, or password you set.

1. On the Settings screen, tap **Lock screen → Smart Lock**.
2. Unlock the screen using the preset screen lock method.
3. Select an option and follow the on-screen instructions to complete the setup.

**Biometrics and security**

**Options**

Change the settings for securing the device.

On the Settings screen, tap **Biometrics and security**.

- **Face recognition**: Set the device to unlock the screen by recognizing your face. Refer to **Face recognition** for more information.
- **Fingerprints**: Register your fingerprints to unlock the screen. Refer to **Fingerprint recognition** for more information.
- **Biometrics preferences**: Change the settings for biometric data.
- **Biometrics security patch**: View the version of the biometrics security patch and check for updates.
Settings

- **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) to track and control your lost or stolen device.
- **Security update**: View the version of your device’s software and check for updates.
- **Samsung Pass**: Verify your identity easily and securely via your biometric data. Refer to Samsung Pass for more information.
- **Install unknown apps**: Set the device to allow the installation of apps from unknown sources.
- **Secure Folder**: Create a secure folder to protect your private content and apps from others. Refer to Secure Folder for more information.
- **Encrypt or decrypt SD card**: Set the device to encrypt files on a memory card.

  - *Important*: 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.

## Face recognition

You can set the device to unlock the screen by recognizing your face.

- If you use your face as a screen lock method, your face cannot be used to unlock the screen for the first time after turning on the device. To use the device, you must unlock the screen using the pattern, PIN, or password you set when registering the face. Be careful not to forget your pattern, PIN, or password.

- If you change the screen lock method to **Swipe** or **None**, which are not secure, all of your biometric data will be deleted. If you want to use your biometric data in apps or features, you must register your biometric data again.

### Precautions for using face recognition

Before using the face recognition to unlock your device, keep the following precautions in mind.

- Your device could be unlocked by someone or something that looks like your image.
- Face recognition is less secure than Pattern, PIN, or Password.
For better face recognition

Consider the following when using face recognition:

- Consider the conditions when registering, such as wearing glasses, hat, mask, beard, or heavy makeup
- Ensure that you are in a well-lit area and that the camera lens is clean when registering
- Ensure your image is not blurry for better match results

Registering your face

For better face registration, register your face indoors and out of direct sunlight.

2. Read the on-screen instructions and tap Continue.
3. Set a screen lock method.
4. Select whether you are wearing glasses or not and tap Continue.
5. Hold the device with the screen facing towards you and look at the screen.

6. Position your face inside the frame on the screen.
   The camera will scan your face.

   - If unlocking the screen with your face is not working properly, tap Remove face data to remove your registered face and register your face again.
   - To enhance the face recognition, tap Add alternative look and add an alternate appearance.
Deleting the registered face data
You can delete face data that you have registered.

2. Unlock the screen using the preset screen lock method.
3. Tap Remove face data → Remove.
   Once the registered face is deleted, all the related features will also be deactivated.

Unlocking the screen with your face
You can unlock the screen with your face instead of using a pattern, PIN, or password.

2. Unlock the screen using the preset screen lock method.
3. Tap the Face unlock switch to activate it.
   - If you want to set the device to unlock the screen without swiping on the locked screen after recognizing your face, tap the Stay on Lock screen switch to deactivate it.
   - If you want to reduce the possibility of recognizing faces in photos or videos, tap the Faster recognition switch to deactivate it. This may decrease the face recognition speed.
   - If you want to increase the recognition rate in a dark place, tap the Brighten screen switch to activate it.
4. On the locked screen, look at the screen.
   When your face is recognized, you can unlock the screen without using any additional screen lock method. If your face is not recognized, use the preset screen lock method.
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:

- 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 recognize them as identical.
- If you use your fingerprint as a screen lock method, your fingerprint cannot be used to unlock the screen for the first time after turning on the device. To use the device, you must unlock the screen using the 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 recognized, 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.
- If you change the screen lock method to **Swipe** or **None**, which are not secure, all of your biometric data will be deleted. If you want to use your biometric data in apps or features, you must register your biometric data again.

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 device may not recognize fingerprints that are affected by wrinkles or scars.
- The device may not recognize fingerprints from small or thin fingers.
- To improve recognition performance, register fingerprints of the hand used most often to perform tasks on the device.
- The Side key has a built-in fingerprint recognition sensor. Ensure that the fingerprint recognition sensor is not scratched or damaged by metal objects, such as coins, keys, and necklaces.
• Covering the fingerprint recognition sensor with protective films, stickers, or other accessories may decrease the fingerprint recognition rate. If the fingerprint recognition sensor is initially covered with a protective film, remove it before using the fingerprint recognition sensor.
• Ensure that the fingerprint recognition sensor and your fingers are clean and dry.
• If you bend your finger or use a fingertip, the device may not recognize your fingerprints. Make sure to cover the entire Side key with your finger.
• 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

1 On the Settings screen, tap Biometrics and security → Fingerprints.

2 Read the on-screen instructions and tap Continue.

3 Set a screen lock method.

4 Place your finger on the Side key. After the device detects your finger, lift it up and place it on the Side key again.
   Repeat this action until the fingerprint is registered.

5 When you are finished registering your fingerprints, tap Done.
Checking registered fingerprints
You can check whether your fingerprint is registered by placing your finger on the fingerprint recognition sensor.

1 On the Settings screen, tap Biometrics and security → Fingerprints.
2 Unlock the screen using the preset screen lock method.
3 Tap Check added fingerprints.
4 Place your finger on the fingerprint recognition sensor.
The recognition result will be displayed.

Deleting registered fingerprints
You can delete registered fingerprints.

1 On the Settings screen, tap Biometrics and security → Fingerprints.
2 Unlock the screen using the preset screen lock method.
3 Select a fingerprint to delete and tap Remove.

Unlocking the screen with your fingerprints
You can unlock the screen with your fingerprint instead of using a pattern, PIN, or password.

1 On the Settings screen, tap Biometrics and security → Fingerprints.
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 fingerprint recognition sensor and scan your fingerprint.
Samsung Pass

Register your biometric data to Samsung Pass and easily verify your identity when using services that require your login or personal information.

- 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. Refer to Samsung account for more information.
- The website sign-in feature is only available for websites that you access via the Internet app. Some websites may not support this feature.
- Registered biometric data is only saved to your device and are not synced with other devices or servers.

Registering Samsung Pass

Before using Samsung Pass, register your biometric data to Samsung Pass.

On the Settings screen, tap Biometrics and security → Samsung Pass. Follow the on-screen instructions to complete the setup.

Verifying the Samsung account password

You can use your registered biometric data to verify your identity instead of entering your Samsung account password when, for example, you purchase content from Galaxy Store.

On the Samsung Pass main screen, tap → Settings → Account and syncing, and then tap the Verify 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 ID 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 with Samsung Pass and tap Remember.
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 ID 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.

Managing sign-in information

View the list of websites and apps you have set to use Samsung Pass and manage your sign-in information.

1. On the Samsung Pass main screen, tap Sign-in and select a website or app from the list.
2. Tap Edit and modify your ID, password, and the website’s or app’s name.
   To delete your sign-in information, 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, on the Samsung Pass main screen, tap → Partners. If there are no websites or apps that support Samsung Pass, Partners 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 using Samsung Pass.
Entering your personal information automatically

You can use Samsung Pass to easily enter your address or payment card information on apps that support personal information autofill.

1. On the Samsung Pass main screen, tap **Autofill forms** and select **Add address** or **Add card**.

2. Enter the information and tap **Save**.
   
   You can now use the biometric data you registered to Samsung Pass when entering the personal information automatically on supported apps.

Deleting your Samsung Pass data

You can delete your biometric data, sign-in information, and app data registered to Samsung Pass.

- Your agreement to the terms and conditions and your Samsung account will remain active.
- The Samsung Pass data on other devices signed in to your Samsung account will not be deleted.

1. On the Samsung Pass main screen, tap  → **Settings** → **Delete data**.

2. Enter your Samsung account password and tap **OK**.
   
   Your Samsung Pass data will be deleted.
Secure Folder

Secure Folder protects your private content and apps, such as photos and contacts, from being accessed by others. You can keep your private content and apps secure even when the device is unlocked.

Secure Folder is a separate, secured storage area. The data in Secure Folder cannot be transferred to other devices via unapproved sharing methods, such as USB or Wi-Fi Direct. Attempting to customize the operating system or modifying software will cause Secure Folder to be automatically locked and inaccessible. Before saving data in Secure Folder, make sure to back up a copy of the data in another secure location.

To use Secure Folder, you must sign in to your Samsung account.
Setting up Secure Folder

1. Launch the Settings app and tap Biometrics and security → Secure Folder.

2. Agree to the terms and conditions of Secure Folder.

3. Enter your Samsung account ID and password and tap Sign in.

4. Select a lock method to use for Secure Folder and follow the on-screen instructions to complete the setup.

   The Secure Folder screen will appear and the Secure Folder app icon (➡️) will be added to the Apps screen.

   To change the name or icon colour of Secure Folder, tap ➡️ Customize.

- When you launch the Secure Folder app, you must unlock the app using your preset lock method.
- If you forget your Secure Folder unlock code, you can reset it using your Samsung account. Tap the button at the bottom of the locked screen, and enter your Samsung account password.

Setting auto lock for Secure Folder

Set the device to automatically lock Secure Folder when it is not being used.

1. Launch the Secure Folder app and tap ➡️ Settings → Auto lock Secure Folder.

2. Select a lock option.

- To manually lock your Secure Folder, tap ➡️ Lock and exit.
Moving content to Secure Folder
Move content, such as photos and videos, to Secure Folder. The following actions are an example of moving an image from the default storage to Secure Folder.

1. Launch the Secure Folder app and tap Add files.

2. Tap Images, tick images to move, and then tap Done.

3. Tap Move.
   The selected items will be deleted from the original folder and moved to Secure Folder. To copy items, tap Copy.

The method for moving content may vary depending on the content type.

Moving content from Secure Folder
Move content from Secure Folder to the corresponding app in the default storage. The following actions are an example of moving an image from Secure Folder to the default storage.

1. Launch the Secure Folder app and tap Gallery.

2. Select an image and tap → Move out of Secure Folder.
   The selected items will be moved to Gallery in the default storage.
Adding apps

Add an app to use in Secure Folder.

1. Launch the Secure Folder app and tap **Add apps**.
2. Tick one or more apps installed on the device and tap **Add**.
   
   To install apps from Play Store or Galaxy Store, tap **Download from Play Store** or **Download from Galaxy Store**.

Removing apps from Secure Folder

Tap and hold an app to delete, and tap **Uninstall**.

Adding accounts

Add your Samsung and Google accounts, or other accounts, to sync with the apps in Secure Folder.

1. Launch the Secure Folder app and tap ➡️ Settings ➔ Accounts ➔ Add account.
2. Select an account service.
3. Follow the on-screen instructions to complete the account setup.

Hiding Secure Folder

You can hide the Secure Folder shortcut from the Apps screen.

Launch the Secure Folder app, tap ➡️ Settings, and then tap the **Show icon on Apps screen** switch to deactivate it.

Alternatively, open the notification panel, swipe downwards, and then tap 📱 (Secure Folder) to deactivate the feature.
**Back up content and apps in Secure Folder to Samsung Cloud using your Samsung account and restore them later.**

**Backing up data**

1. Launch the **Secure Folder** app and tap ☰ ➔ **Settings** ➔ **Backup and restore**.
2. Tap **Add account** and follow the on-screen instructions to complete signing in to your Samsung account.
3. Tap **Back up Secure Folder data**.
4. Tick items you want to back up and tap **Back up**.
   
   Data will be backed up to Samsung Cloud.

**Restoring data**

1. Launch the **Secure Folder** app and tap ☰ ➔ **Settings** ➔ **Backup and restore**.
2. Tap **Restore**.
3. Tap ▼ to select a device to restore the data.
4. Tick items you want to restore and tap **Restore**.
   
   Backed up data will be restored to your device.

**Uninstalling Secure Folder**

You can uninstall Secure Folder, including the content and apps in it.

Launch the **Secure Folder** app and tap ☰ ➔ **Settings** ➔ **More settings** ➔ **Uninstall**.

To back up content before uninstalling Secure Folder, tick **Move media files out of Secure Folder** and tap **Uninstall**. To access data backed up from Secure Folder, launch the **My Files** app and tap **Internal storage** ➔ **Secure Folder**.

💡 Notes saved in **Samsung Notes** will not be backed up.
Privacy

Change the settings for privacy.

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

- **Permission manager**: View the list of features and apps that have permission to use them. You can also edit the permission settings.
- **Send diagnostic data**: Set the device to automatically send the device’s diagnostic and usage information to Samsung.
- **Receive marketing information**: Set whether to receive Samsung marketing information, such as special offers, membership benefits, and newsletters.
- **Advanced**: Configure advanced settings for privacy.

Location

Change settings for location information permissions.

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

- **App permissions**: View the list of apps that have permission to access the device’s location and edit the permission settings.
- **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.
Accounts and backup

Options
Sync, back up, or restore your device’s data using Samsung Cloud. You can also sign in to 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 Accounts and backup.

- **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.
- **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.
- **Smart Switch**: Launch Smart Switch and transfer data from your previous device. Refer to Transferring data from your previous device (Smart Switch) for more information.

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
Sync the data saved in your device, such as images and videos, with Samsung Cloud and view the data you have saved on Samsung Cloud. You can also back up your device’s data to Samsung Cloud and restore it later.

To use Samsung Cloud, you must sign in to your Samsung account.
Syncing data
You can sync data saved in your device, such as images, videos, and events, with Samsung Cloud and access it from other devices.

1. On the Settings screen, tap Accounts and backup → Samsung Cloud.
2. Tap → Settings → Sync and auto backup settings → Sync.
3. Tap the switches next to the items you want to sync with.

You can check the saved data or change the settings by tapping Gallery, Other synced data, or Samsung Cloud Drive.

Backing up data
You can back up your device’s data to Samsung Cloud.

1. On the Settings screen, tap Accounts and backup → Samsung Cloud → Back up this phone.
2. Tick items you want to back up and tap Back up.
3. Tap Done.

- Some data will not be backed up. To check which data will be backed up, on the Settings screen, tap Accounts and backup → Samsung Cloud → Back up this phone.
- To view the backup data for other devices in your Samsung Cloud, on the Settings screen, tap Accounts and backup → Samsung Cloud → Restore data → , and then select a device you want.

Restoring data
You can restore your backup data from Samsung Cloud to your device.

1. On the Settings screen, tap Accounts and backup → Samsung Cloud.
2. Tap Restore data → and select a device you want.
3. Tick items you want to restore and tap Restore.
Settings

Google
Configure settings for some features provided by Google.
On the Settings screen, tap Google.

Advanced features

Options
Activate advanced features and change the settings that control them.
On the Settings screen, tap Advanced features.

💡 Excessive shaking or an impact to the device may cause an unintended input for some features using sensors.

- **XCover key**: View and edit the apps launched when you press the XCover key.
- **Top key**: View and edit the apps launched when you press the Top key.
- **Side key**: Select an app or feature to launch using the Side key. Refer to Setting the Side key for more information.
- **Bixby Routines**: Add routines to automate settings that you use repeatedly. The device also suggests useful routines according to your frequent situations. Refer to Bixby Routines for more information.
- **Call & text on other devices**: Use your device’s calling and messaging features on other devices signed in to your Samsung account.
  
  This feature may not be available depending on the region or service provider.

- **Link to Windows**: Instantly access data saved in your device on your computer. Refer to Link to Windows for more information.
- **Smart pop-up view**: Select apps to view their notifications via pop-up windows. When using this feature, you can quickly view the contents via pop-up windows by tapping the icon on the screen.
  
  This feature is only available in apps that support the Multi window feature.
**Settings**

- **Screenshots**: Change the settings for screenshots.
- **Direct share**: Set the device to display the people you contacted on the sharing options panel to allow you to share content directly.
- **Reduce animations**: Set the device to reduce the screen effects of certain actions, such as opening or closing apps.
- **Motions and gestures**: Activate the motion feature and configure settings. Refer to *Motions and gestures* for more information.
- **One-handed mode**: Activate one-handed operation mode for your convenience when using the device with one hand.
  
  ![Icon]
  
  This feature may not be available depending on the region or service provider.

- **Game Launcher**: Activate the Game Launcher. Refer to *Game Launcher* for more information.
- **Dual Messenger**: Install the second app and use two separate accounts for the same messenger app. Refer to *Dual Messenger* for more information.
- **Send SOS messages**: Set the device to send help messages by pressing the Side key three times.

**Link to Windows**

Instantly access data saved in your device, such as photos and messages, on your computer by using the same Microsoft account on your computer as your device.

![Icon]

This feature is only available on Windows 10 version 1803 or higher, and it is recommended to use version 1903 or higher.

1. On the Settings screen, tap **Advanced features** → **Link to Windows**.
2. Tap **Sign in with Microsoft**, sign in to your Microsoft account, and then tap **Continue**.
3. Tap **Show me** to view the computer setup procedures, follow the on-screen instructions to sign in on your computer, and then download the **Your Phone** app.
4. Tap **Continue** to complete the setup.
Motions and gestures

Activate the motion feature and configure settings.

On the Settings screen, tap Advanced features → Motions and gestures.

- **Lift to wake**: Set the device to turn on the screen when you pick it up.
- **Smart alert**: Set the device to alert you if you have missed calls or new messages when you pick up the device.

  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 facing the device's screen downwards.
- **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.
- **Finger sensor gestures**: Set the device to open or close the notification panel when you swipe upwards or downwards on the fingerprint recognition sensor. This feature is not available when the sensor is detecting your fingerprint.
- **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 in the Phone or Contacts app.
Dual Messenger

Install a second copy of a messenger app and use two separate accounts for the same app.

1. On the Settings screen, tap **Advanced features → Dual Messenger**.
   Supported apps will appear.

2. Tap the switch of an app to install the second app.
   The second copy will be installed. The second app’s icon will be displayed with 📣. When you receive notifications from the second app, the notifications will be displayed with 📣 to distinguish them from the first app’s notifications.

- The Dual Messenger feature may not be available depending on the app.
- Some features of the app may be limited for the second copy.

Uninstalling a second app

1. On the Settings screen, tap **Advanced features → Dual Messenger**.

2. Tap the switch of the app you want to uninstall and tap **Disable** or **Uninstall**.
   All data related to the second app will be deleted.

- If you uninstall the first app, the second app will also be deleted.
Digital Wellbeing and parental controls

Options

View the history of your device usage and use features to prevent your device from interfering with your life. You can also set up parental controls for your children and manage their digital use.

On the Settings screen, tap Digital Wellbeing and parental controls.

- Digital Wellbeing: View the daily usage history of your device. Refer to Digital Wellbeing for more information.
- Parental controls: Manage your children’s digital use.

Digital Wellbeing

View the daily usage history of your device. You can also limit usage time or change the notification settings for each app.

On the Settings screen, tap Digital Wellbeing and parental controls → Digital Wellbeing.

The time the screen was on
Number of notifications
Number of unlocks
Set timers for apps.
Focus mode
**Setting timers for apps**

You can limit the daily usage time for each app by setting a timer. When you reach the limit, the app will be deactivated and you cannot use it.

1. On the Settings screen, tap **Digital Wellbeing and parental controls → App timers.**

2. Tap **No timer** next to the app you want and set the time.

**Using focus mode**

You can activate focus mode to avoid distractions from your device and stay focused on what you want. While focus mode is on, you can only use default apps and the apps you allowed exceptions for.

On the Settings screen, tap **Digital Wellbeing and parental controls.** Then tap the mode you want to activate under **Focus mode** and tap **Start.**

**Activating wind down mode**

You can activate wind down mode to reduce eye strain before sleeping and prevent your sleep from being disturbed.

1. On the Settings screen, tap **Digital Wellbeing and parental controls → Wind Down.**

2. To set the schedule to activate wind down mode, tap **Set a schedule,** tap the switch to activate it, and then set the days and time.
Device care

Introduction

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

Optimizing your device

On the Settings screen, tap Device care → Optimize now.

The quick optimization 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 crashed apps and malware.
Using the auto optimization feature

You can set the device to perform auto optimization when your device is not in use. Tap → Advanced → Auto optimization and tap the switch to activate it. If you want to set the time to perform auto optimization, tap Time.

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 care → 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 may not receive notifications from some apps that use power saving mode.

Power mode

Select a power mode that suits your device usage purposes.

Tap Power mode and select an option.

- Optimized: Optimized for a balance between the device's performance and battery usage.
- Medium power saving: Activate power saving mode to extend the battery’s usage time.
- Maximum power saving: In maximum power saving mode, the device decreases battery consumption by activating dark mode and limiting the apps and features available. Network connections, except for the mobile network, will be deactivated.

You can set the device to charge the battery more quickly. Tap the Fast cable charging switch to activate it.

Adaptive power saving

You can set the device to activate power saving mode automatically based on your usage patterns and the remaining battery power.

Tap Power mode and tap the Adaptive power saving switch to activate it. Your device will activate power saving mode based on the situation to extend the battery’s usage time.
Managing battery usage for each app

You can save battery power by preventing apps that are running in the background from using battery power when they are not being used. Tap **Battery usage**, select apps from the apps list, and then tap the **Put app to sleep** switch to activate the feature.

**Storage**

Check the status of the used and available storage space.

On the Settings screen, tap **Device care → Storage**.

- The actual available capacity of the internal storage is less than the specified capacity because the operating system and default apps occupy part of the space. The available capacity may change when you update the device.
- You can view the available capacity of the internal storage in the Specification section for your device on the Samsung website.

Managing the storage

To delete residual files, such as cache, tap **Clean now**. To delete files or uninstall apps that you do not use any more, select a category. Then, tick items to select and tap **Delete**.

**Memory**

On the Settings screen, tap **Device care → Memory**.

To speed up your device by stopping apps running in the background, tick apps from the apps list, and tap **Clean now**.

**Security**

Check the device’s security status. This feature scans your device for malware.

On the Settings screen, tap **Device care → 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**.

**General management**

Customize 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. Refer to *Adding device languages* for more information.

- **Date and time**: Access and alter the settings to control how the device displays the time and date.

  If the battery becomes fully discharged or removed from the device, the time and date are reset.

- **Contact us**: Ask questions or view frequently asked questions.

- **Reset**: Reset your device’s settings or perform a factory data reset. You can reset all your settings, only network settings, or accessibility settings. You can also set the device to restart at a preset time for device optimization.
Adding device languages

You can add languages to use on your device.

1. On the Settings screen, tap General management → Language and input → Language → Add language.
   To view all the languages that can be added, tap → All languages.

2. Select a language to add.

3. To set the selected language as the default language, tap Set as default. To keep the current language setting, tap Keep current.
   The selected language will be added to your languages list. If you changed the default language, the selected language will be added to the top of the list.

To change the default language from your languages list, select the language you want and tap Apply. If an app does not support the default language, the next supported language in the list will be used.

Accessibility

Configure various settings to improve accessibility to the device.

On the Settings screen, tap Accessibility.

• Screen reader: Activate Voice Assistant, which provides voice feedback. To view help information to learn how to use this feature, tap Tutorial.

• Visibility enhancements: Customize the settings to improve accessibility for visually impaired users.

• Hearing enhancements: Customize the settings to improve accessibility for users with hearing impairment.

• Interaction and dexterity: Customize the settings to improve accessibility for users who have reduced dexterity.

• Advanced settings: Configure settings for Direct access and notification features.

• Installed services: View accessibility services installed on the device.

• About Accessibility: View the Accessibility information.

• Contact us: Ask questions or view frequently asked questions.
Software update

Update your device’s software via the firmware over-the-air (FOTA) service. You can also schedule software updates.

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 and install**: Check for and install updates manually.
- **Auto download over Wi-Fi**: Set the device to download updates automatically when connected to a Wi-Fi network.
- **Last update**: View information about the last software update.

Security updates information

Security updates are provided to strengthen the security of your device and protect your personal information. For security updates for your model, visit security.samsungmobile.com.

The website supports only some languages.

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

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 battery may not be inserted properly. Insert the battery again.
- Wipe both gold-coloured contacts and insert the battery again.
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 Side 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 tap 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.

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 dialing.
- 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 does not charge properly (For Samsung-approved chargers)

- Ensure that the charger is connected properly.
- If the battery terminals are dirty, the battery may not charge properly or the device may turn off. Wipe both gold-coloured contacts and try charging the battery again.

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 will increase when you use certain 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 authorized 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.
Bluetooth is not working well

If another Bluetooth device is not located or there are connection problems or performance malfunctions, try the following:

- Ensure that the device you wish to connect with is ready to be scanned or connected to.
- Ensure that your device and the other Bluetooth device are within the maximum Bluetooth range (10 m).
- On your device, launch the Settings app, tap Connections, and then tap the Bluetooth switch to re-activate it.
- On your device, launch the Settings app, tap General management → Reset → Reset network settings → Reset settings → Reset to reset network settings. You may lose registered information when performing the reset.

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.

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 device care feature or manually delete unused apps or files to free up storage space.

The Home button does not appear

The navigation bar containing the Home button may disappear while using certain apps or features. To view the navigation bar, drag upwards from the bottom of the screen.

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 → Quick panel layout and tap the Show brightness on top switch to activate it.
Health and Safety

Please read this important safety information before you use the device. It contains general safety information for devices and may include content that does not apply to your device. Follow the warning and caution information to prevent injury to yourself or others and to prevent damage to your device.

The term ‘device’ refers to the product and its battery, charger, the items supplied with the product, and any Samsung-approved accessories used with the product.

Warning: Failure to comply with safety warnings and regulations can cause serious injury or death.

Do not use damaged power cords or plugs, or loose electrical sockets
Unsecured connections can cause electric shock or fire.

Do not touch the device, power cords, plugs, or the electric socket with wet hands or other wet body parts
Doing so may cause electric shock.

Do not pull the power cord excessively when disconnecting it
Doing so may cause electric shock or fire.

Do not bend or damage the power cord
Doing so may cause electric shock or fire.

Do not use the device with wet hands while the device is charging
Doing so may cause electric shock.

Do not directly connect together the charger’s positive and negative terminals
Doing so may cause fire or serious injury.

Do not use your device outdoor during a thunderstorm
Doing so may result in electric shock or device malfunction.

Use manufacturer-approved batteries, chargers, accessories, and supplies
• Using generic batteries or chargers may shorten the life of your device or cause the device to malfunction. They may also cause a fire or cause the battery to explode.
• Use only a Samsung-approved battery and charger specifically designed for your device. An incompatible battery or charger can cause serious injuries or damage to your device.
• Samsung cannot be responsible for the user’s safety when using accessories or supplies that are not approved by Samsung.
Do not carry your device in your back pockets or on your waist
- The device may be damaged, explode, or result in a fire if too much pressure is applied to it.
- You may be injured if you are bumped or fall.

Do not drop or cause an impact to the charger or the device

Handle and dispose of the device and charger with care
- Never dispose of the battery or device in a fire. Never place the battery or device on or in heating devices, such as microwave ovens, stoves, or radiators. The device may explode when overheated. Follow all local regulations when disposing of used battery or device.
- Never crush or puncture the device.
- Avoid exposing the device to high external pressure, which can lead to an internal short circuit and overheating.

Protect the device, battery and charger from damage
- Avoid exposing your device and battery to very cold or very hot temperatures.
- Extreme temperatures can damage the device and reduce the charging capacity and life of your device and battery.
- Do not directly connect together the battery’s positive and negative terminals and prevent them from coming into contact with metal objects. Doing so may cause the battery to malfunction.
- Never use a damaged charger or battery.

Do not store your device near or in heaters, microwaves, hot cooking equipment, or high pressure containers
- The battery may leak.
- Your device may overheat and cause a fire.

Do not use or store your device in areas with high concentrations of dust or airborne materials
Dust or foreign materials can cause your device to malfunction and may result in fire or electric shock.

Prevent the multipurpose jack and the small end of the charger from contact with conductive materials, such as liquids, dust, metal powders, and pencil leads. Do not touch the multipurpose jack with sharp tools or cause an impact to the multipurpose jack
Conductive materials may cause a short circuit or corrosion of the terminals, which may result in an explosion or fire.
When using the wireless charger, do not place foreign materials, such as metal objects, magnets, and magnetic stripe cards, between the device and the wireless charger. The device may not charge properly or may overheat.

**Do not bite or suck the device or the battery**
- Doing so may damage the device or result in an explosion or fire.
- Children or animals can choke on small parts.
- If children use the device, make sure that they use the device properly.

**Do not insert the device or supplied accessories into the eyes, ears, or mouth**
Doing so may cause suffocation or serious injuries.

**Do not handle a damaged or leaking Lithium Ion (Li-ion) battery**
For safe disposal of your Li-ion battery, contact your nearest authorized service centre.

⚠️ **Caution: Failure to comply with safety cautions and regulations can cause injury or property damage**

**Do not use your device near other electronic devices**
- Most electronic devices use radio frequency signals. Your device may interfere with other electronic devices.
- Using an LTE data connection may cause interference with other devices, such as audio equipment and telephones.

**Do not use your device in a hospital, on an aircraft, or in automotive equipment that can be interfered with by radio frequency**
- Avoid using your device within a 15 cm range of a pacemaker, if possible, as your device can interfere with the pacemaker.
- To minimize possible interference with a pacemaker, use your device only on the side of your body that is opposite the pacemaker.
- If you use medical equipment, contact the equipment manufacturer before using your device to determine whether or not the equipment will be affected by radio frequencies emitted by the device.
- On an aircraft, using electronic devices can interfere with the aircraft's electronic navigational instruments. Make sure the device is turned off during takeoff and landing. After takeoff, you can use the device in flight mode if allowed by aircraft personnel.
- Electronic devices in your car may malfunction due to radio interference from your device. Contact the manufacturer for more information.
Do not expose the device to heavy smoke or fumes
• Doing so may damage the outside of the device or cause it to malfunction.

If you use a hearing aid, contact the manufacturer for information about radio interference
The radio frequency emitted by your device may interfere with some hearing aids. Before using your device, contact the manufacturer to determine whether or not your hearing aid will be affected by radio frequencies emitted by the device.

Do not use your device near devices or apparatuses that emit radio frequencies, such as sound systems or radio towers
Radio frequencies may cause your device to malfunction.

Turn off the device in potentially explosive environments
• Turn off your device in potentially explosive environments instead of removing the battery.
• Always comply with regulations, instructions and signs in potentially explosive environments.
• Do not use your device at refuelling points (gas stations), near fuels or chemicals, or in blasting areas.
• Do not store or carry flammable liquids, gases, or explosive materials in the same compartment as the device, its parts, or accessories.

If you notice strange smells or sounds coming from your device or the battery, or if you see smoke or liquids leaking from the device or battery, stop using the device immediately and take it to a Samsung Service Centre
Failure to do so may result in fire or explosion.

Comply with all safety warnings and regulations regarding mobile device usage while operating a vehicle
While driving, safely operating the vehicle is your first responsibility. Never use your mobile device while driving, if it is prohibited by law. For your safety and the safety of others, use your common sense and remember the following tips:
• Get to know your device and its convenience features, such as speed dial and redial. These features help you reduce the time needed to place or receive calls on your mobile device.
• Position your device within easy reach. Make sure you can access your wireless device without taking your eyes off the road. If you receive an incoming call at an inconvenient time, let your voicemail answer it for you.
• Suspend use in heavy traffic or hazardous weather conditions. Rain, sleet, snow, ice, and heavy traffic can be hazardous.
• Do not take notes or look up phone numbers. Jotting down a “to do” list or flipping through your address book takes attention away from your primary responsibility of driving safely.

• Dial sensibly and assess the traffic. Place calls when you are not moving or before pulling into traffic. Try to plan calls when your car will be stationary.

• Do not engage in stressful or emotional conversations that may be distracting. Make the person you are talking to aware that you are driving and suspend conversations that could potentially divert your attention from the road.

Care for and use your mobile device properly

Keep your device dry
• Humidity and liquids may damage the parts or electronic circuits in your device.

• Do not turn on your device if it is wet. If your device is already on, turn it off and remove the battery immediately (if the device will not turn off or you cannot remove the battery, leave it as-is). Then, dry the device with a towel and take it to a service centre.

• This device has internal liquid indicators fitted. Water damage to your device may void the manufacturer’s warranty.

Store your device only on flat surfaces
• If your device falls, it may be damaged.

The device can be used in locations with an ambient temperature of 0°C to 35°C. You can store the device at an ambient temperature of -20°C to 50°C. Using or storing the device outside of the recommended temperature ranges may damage the device or reduce the battery’s lifespan
• Do not store your device in very hot areas such as inside a car in the summer. Doing so may cause the screen to malfunction, result in damage to the device, or cause the battery to explode.

• Do not expose your device to direct sunlight for extended periods of time (on the dashboard of a car, for example).

• For a device with a removable battery, the battery can be stored separately in locations with an ambient temperature of 0 °C to 45 °C.

Do not store your device with metal objects, such as coins, keys, and necklaces
• Your device may be scratched or may malfunction.

• If the battery terminals come into contact with metal objects, this may cause a fire.
Do not store your device near magnetic fields
- Your device may malfunction or the battery may discharge from exposure to magnetic fields.
- Magnetic stripe cards, including credit cards, phone cards, passbooks, and boarding passes, may be damaged by magnetic fields.

Prolonged exposure of your skin to an overheated device may cause low temperature burn symptoms, such as red spots and pigmentation

Do not use your device with the back cover removed
The battery may fall out of the device, which may result in damage or malfunction.

If your device has a camera flash or light, do not use it close to the eyes of people or pets
Using a flash close to the eyes may cause temporary loss of vision or damage to the eyes.

Use caution when exposed to flashing lights
- While using your device, leave some lights on in the room and do not hold the screen too close to your eyes.
- Seizures or blackouts can occur when you are exposed to flashing lights while watching videos or playing Flash-based games for extended periods. If you feel any discomfort, stop using the device immediately.
- If anyone related to you has experienced seizures or blackouts while using a similar device, consult a physician before using the device.
- If you feel discomfort, such as a muscle spasm, or disoriented, stop using the device immediately and consult a physician.
- To prevent eye strain, take frequent breaks while using the device.

Reduce the risk of repetitive motion injuries
When you repetitively perform actions, such as pressing keys, drawing characters on a touch screen with your fingers, or playing games, you may experience occasional discomfort in your hands, neck, shoulders, or other parts of your body. When using your device for extended periods, hold the device with a relaxed grip, press the keys lightly, and take frequent breaks. If you continue to have discomfort during or after such use, stop using the device and consult a physician.
Protect your hearing and ears when using a headset

- Excessive exposure to loud sounds can cause hearing damage.
- Exposure to loud sounds while walking may distract your attention and cause an accident.
- Always turn the volume down before plugging the earphones into an audio source and use only the minimum volume setting necessary to hear your conversation or music.
- In dry environments, static electricity can build up in the headset. Avoid using headsets in dry environments or touch a metal object to discharge static electricity before connecting a headset to the device.
- Do not use a headset while driving or riding. Doing so may distract your attention and cause an accident, or may be illegal, depending on your region.

Use caution when using the device while walking or moving

- Always be aware of your surroundings to avoid injury to yourself or others.
- Make sure the headset cable does not become entangled in your arms or on nearby objects.

Do not paint or put stickers on your device

- Paint and stickers can clog moving parts and prevent proper operation.
- If you are allergic to paint or metal parts of the device, you may experience itching, eczema, or swelling of the skin. When this happens, stop using the device and consult your physician.

Do not use the device if the screen is cracked or broken

- Broken glass or acrylic could cause injury to your hands and face. Take the device to a Samsung Service Centre to have it repaired.

Install mobile devices and equipment with caution

- Ensure that any mobile devices or related equipment installed in your vehicle are securely mounted.
- Avoid placing your device and accessories near or in an airbag deployment area. Improperly installed wireless equipment can cause serious injury when airbags inflate rapidly.

Do not drop your device or cause impacts to your device

- Your device may be damaged or may malfunction.
- If bent or deformed, your device may be damaged or parts may malfunction.
Ensure maximum battery and charger life
• Batteries may malfunction if they are not used for extended periods.
• Over time, unused device will discharge and must be recharged before use.
• Disconnect the charger from power sources when not in use.
• Use the battery only for its intended purpose.
• Follow all instructions in this manual to ensure the longest lifespan of your device and battery. Damage or poor performance caused by failure to follow warnings and instructions can void your manufacturer’s warranty.
• Your device may wear out over time. Some parts and repairs are covered by the warranty within the validity period, but damages or deterioration caused by using unapproved accessories are not.

When using the device, mind the following
• Hold the device upright, as you would with a traditional phone.
• Speak directly into the microphone.

Do not disassemble, modify, or repair your device
• Any changes or modifications to your device can void your manufacturer’s warranty. If your device needs servicing, take your device to a Samsung Service Centre.
• Do not disassemble or puncture the battery, as this can cause explosion or fire.
• Turn off the device before removing the battery. If you remove the battery with the device turned on, it may cause the device to malfunction.

When cleaning your device, mind the following
• Wipe your device or charger with a towel or an eraser.
• Clean the battery terminals with a cotton ball or a towel.
• Do not use chemicals or detergents. Doing so may discolour or corrode the outside the device or may result in electric shock or fire.

Do not use the device for anything other than its intended use
• Your device may malfunction.

Avoid disturbing others when using the device in public

Allow only qualified personnel to service your device
• Allowing unqualified personnel to service your device may result in damage to your device and will void your manufacturer’s warranty.
Handle SIM cards, memory cards and cables with care

• When inserting a card or connecting a cable to your device, make sure that the card is inserted or the cable is connected to the proper side.

• Do not remove a card while the device is transferring or accessing information, as this could result in loss of data and/or damage to the card or device.

• Protect cards from strong shocks, static electricity, and electrical noise from other devices.

• Do not touch gold-coloured contacts or terminals with your fingers or metal objects. If dirty, wipe the card with a soft cloth.

• Inserting a card or connecting a cable by force or improperly may result in damage to the multipurpose jack or other parts of the device.

Ensure access to emergency services

Emergency calls from your device may not be possible in some areas or circumstances. Before travelling in remote or undeveloped areas, plan an alternative method of contacting emergency services personnel.

Protect your personal data and prevent leakage or misuse of sensitive information

• While using your device, be sure to back up important data. Samsung is not responsible for the loss of any data.

• When disposing of your device, back up all data and then reset your device to prevent misuse of your personal information.

• Carefully read the permissions screen when downloading applications. Be particularly cautious with applications that have access to many functions or to a significant amount of your personal information.

• Check your accounts regularly for unapproved or suspicious use. If you find any sign of misuse of your personal information, contact your service provider to delete or change your account information.

• In the event your device is lost or stolen, change the passwords on your accounts to protect your personal information.

• Avoid using applications from unknown sources and lock your device with a pattern, password, or PIN.

Do not distribute copyright-protected material

Do not distribute copyright-protected material without the permission of the content owners. Doing this may violate copyright laws. The manufacturer is not liable for any legal issues caused by the user’s illegal use of copyrighted material.
Malware and viruses

To protect your device from malware and viruses, follow these usage tips. Failure to do so may result in damages or loss of data that may not be covered by the warranty service.

- Do not download unknown applications.
- Do not visit untrusted websites.
- Delete suspicious messages or email from unknown senders.
- Set a password and change it regularly.
- Deactivate wireless features, such as Bluetooth, when not in use.
- If the device behaves abnormally, run an antivirus program to check for infection.
- Run an antivirus program on your device before you launch newly-downloaded applications and files.
- Install antivirus programs on your computer and run them regularly to check for infection.
- Do not edit registry settings or modify the device's operating system.
Acknowledging Special Precautions and ISED (Innovation, Science and Economic Development Canada) Notice

Cautions
Any changes or modifications to your device not expressly approved in this document could void your warranty for this equipment, and void your authority to operate this equipment. Only use approved batteries, antennas, and chargers. The use of any unauthorized accessories may be dangerous and void the phone warranty if they cause damage or a defect to the device.

Although your device is quite sturdy, it is a complex piece of equipment and can be broken. Avoid dropping, hitting, bending, or sitting on it.

Information to User
This equipment has been tested and found to comply with the limits of a Class B digital device. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation; if this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

• Reorient/relocate the receiving antenna.
• Increase the separation between the equipment and receiver.
• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
• Consult the dealer or an experienced radio/TV technician for help.

Warning: At very high volumes, prolonged listening to a headset can damage your hearing.

Specific Absorption Rates (SAR) for Wireless Devices
The SAR is a value that corresponds to the relative amount of RF energy absorbed by the user of a wireless device.

The SAR value of a device is the result of an extensive testing, measuring and calculation process. It does not represent how much RF the device emits. All devices are tested at their highest value in strict laboratory settings. But when in operation, the SAR of a device can be substantially less than the level reported to ISED. This is because of a variety of factors including its proximity to a base station antenna, design and other factors. What is important
to remember is that each device meets strict federal guidelines. Variations in SARs do not represent a variation in safety.

All devices must meet the federal standard, which incorporates a substantial margin of safety. As stated above, variations in SAR values between different model devices do not mean variations in safety. SAR values at or below the federal standard of 1.6 W/kg are considered safe for use by the public.

SAR values are measured in positions that simulate uses against the head and held to the ear. SAR values for body-worn operations refer to accessories (i.e. device case and device holster) that contains no metal at a minimum distance of 1.5cm from the body.

**Correct disposal of this product**
(Waste Electrical & Electronic Equipment)

This marking on the product, accessories or literature indicates that the product and its electronic accessories (e.g., charger, headset, USB cable) should not be disposed of with other household waste. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take these items for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product and its electronic accessories should not be mixed with other commercial wastes for disposal.

This product is RoHS compliant.

**Correct disposal of batteries in this product**

This marking on the battery, manual or packaging indicates that the batteries in this product should not be disposed of with other household waste at the end of their working life. Where marked, the chemical symbols Hg, Cd or Pb indicate that the battery contains mercury, cadmium or lead above the reference levels in EC Directive 2006/66.
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**Technical requirements for Wi-Fi operation in the 5 GHz band**

Wi-Fi access points that are capable of allowing your device to operate in the 5.15 - 5.25 GHz band are optimized for indoor use only. If your Wi-Fi network is capable of operating in this mode, please restrict your Wi-Fi use to indoors to not violate federal regulations to protect mobile satellite services.
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ISED Notice

This Class B digital apparatus complies with Canadian ICES-003.
This device complies with Innovation, Science and Economic Development Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:
(1) this device may not cause interference, and
(2) this device must accept any interference, including interference that may cause undesired operation of the device.

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