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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 Center. For user-installed apps, contact service providers.
• Modifying the device's operating system or installing softwares from unofficial sources may result in device malfunctions and data corruption or loss. These actions are violations of your Samsung license agreement and will void your warranty.
• Be careful not to forget your unlock codes for the screen lock, accounts, and other security features. If you forget an unlock code, 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.

Instructional icons

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

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

🌿 **Notice**: notes, usage tips, or additional information
Device overheating situations and solutions

When the device heats up while charging the battery

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

Do the following when the device heats up:

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

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

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

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

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

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

Device limitations when the device overheats

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

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

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

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

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
- Proximity sensor
- Touchscreen
- Home key
- Recents key
- Microphone
- Multipurpose jack
- Earphone jack
- Back key
- Speaker
- Power key
- GPS antenna
- Flash
- Rear camera
- Volume key
- Back cover
- Main antenna
• Connectivity problems and battery drain may occur in the following situations:
  – If you attach metallic stickers on the antenna area of the device
  – If you attach a device cover made with metallic material to the device
  – If you cover the device’s antenna area with your hands or other objects while using certain features, such as calls or the mobile data connection
• Using a Samsung-approved screen protector is recommended. Unapproved screen protectors may cause the sensors to malfunction.
• Do not cover the proximity sensor area with screen accessories, such as a screen protector or stickers. Doing so may cause the sensor to malfunction.
• Do not allow water to contact the touchscreen. The touchscreen may malfunction in humid conditions or when exposed to water.

### Keys

<table>
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<th>Key</th>
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| ![Power](power.png) | **Power**  
  • Press and hold to turn the device on or off.  
  • Press to turn on or lock the screen. |
| ![Recents](recents.png) | **Recents**  
  • Tap to open the list of recent apps. |
| ![Home](home.png) | **Home**  
  • Press to turn on the screen while the screen is locked.  
  • Press to return to the Home screen.  
  • Press and hold to launch **Google Assistant**. |
| ![Back](back.png) | **Back**  
  • Tap to return to the previous screen.  
  • Tap and hold to access additional options for the current screen. |
| ![Volume](volume.png) | **Volume**  
  • Press to adjust the device volume. |
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.

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.

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

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

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

Battery charging tips and precautions

- When the battery power is low, the battery icon appears empty.
- If the battery is completely discharged, the device cannot be turned on immediately when the charger is connected. Allow a depleted battery to charge for a few minutes before turning on the device.
- If you use multiple apps at once, network apps, or apps that need a connection to another device, the battery will drain quickly. To avoid losing power during a data transfer, always use these apps after fully charging the battery.
- Using a power source other than the charger, such as a computer, may result in a slower charging speed due to a lower electric current.
- The device can be used while it is charging, but it may take longer to fully charge the battery.
- If the device receives an unstable power supply while charging, the touchscreen may not function. If this happens, unplug the charger from the device.
- While charging, the device and the charger may heat up. This is normal and should not affect the device’s lifespan or performance. If the battery gets hotter than usual, the charger may stop charging.
- If you charge the device while the multipurpose jack is wet, the device may be damaged. Thoroughly dry the multipurpose jack before charging the device.
- If the device is not charging properly, take the device and the charger to a Samsung Service Center.
SIM or USIM 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 LTE services may not be available depending on the service provider. For more information about service availability, contact your service provider.

1. Remove the back cover and battery.

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

3. 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 Center to remove the memory card.

3. Replace the battery and back cover.
Removing the SIM or USIM card

1. Remove the back cover and battery.
2. Pull out the SIM or USIM card.
Memory card (microSD card)

Installing a memory card

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

- Some memory cards may not be fully compatible with the device. Using an incompatible card may damage the device or the memory card, or corrupt the data stored in it.
- Use caution to insert the memory card right-side up.
- The device supports the FAT and the exFAT file systems for memory cards. When inserting a card formatted in a different file system, the device will ask to reformat the card or will not 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 Center.
- 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 maintenance → Storage → → Storage settings → SD card → UNMOUNT.

1. Remove the back cover and battery.
2. Pull out the memory card.
3. Replace the battery and back cover.

⚠️ 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 maintenance → Storage → → Storage settings → SD card → Format → 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**

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

When you turn on your device for the first time or after performing a data reset, follow the on-screen instructions to set up your device.

To turn off the device, press and hold the Power key, and then tap **Power off**.

- If your device is frozen and unresponsive, press and hold the Power key and the Volume Down key simultaneously for more than 7 seconds to restart it.
- Follow all posted warnings and directions from authorized personnel in areas where the use of wireless devices is restricted, such as airplanes and hospitals.

**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.

**Activating emergency mode**

To activate emergency mode, press and hold the Power key, and then tap **Emergency mode**.

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

**Deactivating emergency mode**

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

The initial setup procedures may vary depending on the device’s software and your region.

1. Turn on the device.

2. Select your preferred device language and select ➔.

3. Select a Wi-Fi network and connect to it.
   - 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.

4. Follow the on-screen instructions to proceed the initial setup.

5. Set a screen lock method to protect your device. You can protect your personal information by preventing others from accessing your device. To set the screen lock method later, tap Not now.
6 Sign in to your Samsung account. You can enjoy Samsung services and keep your data up to date and secure across all of your devices. Refer to Samsung account for more information.

7 Select features you want to use and complete the initial setup. The Home screen will appear.
Samsung account

Introduction

Your Samsung account is an integrated account service that allows you to use a variety of Samsung services provided by mobile devices, TVs, and the Samsung website. Once your Samsung account has been registered, you can keep your data up to date and secure across your Samsung devices with Samsung Cloud, track and control your lost or stolen device, see tips and tricks from Samsung Members, and more.

Create your Samsung account with your email address.

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

Registering your Samsung account

Registering a new Samsung account

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

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

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

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

2. Tap Samsung account → SIGN IN.

3. Enter your email address and password, and then tap SIGN IN.
   If you forget your account information, tap Find ID or Reset password. You can find your account information when you enter the required information.

4. Tap DONE to finish registering your Samsung account.

Removing your Samsung account

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

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

2. Tap Samsung account → Remove account.

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

Transferring data from your previous device

You can transfer content, such as images, contacts, and messages, from your previous device via Smart Switch or from a backup of your data via Samsung Cloud.

• 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.
**Smart Switch**

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

**Transferring data from a mobile device**

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

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

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

1. Transfer 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 Cloud and accounts → Smart Switch → EXTERNAL STORAGE → 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.
   - If your previous device is not a Samsung device, back up data to a computer using a program provided by the device's manufacturer. Then, skip to the fifth step.
3. Connect your previous device to the computer using the 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.
Viewing imported data

You can view the imported data on the same app from your previous device. If your new device does not have the same apps to view or play the imported data, the data will be saved to a similar app. For example, if you import memos and your device does not have the Memo app, you can view the memos in the Samsung Notes app.

Samsung Cloud

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

Backing up data

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

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

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

Restoring data

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

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

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

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

2. Tap → Settings → Sync settings.

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

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

- You can immediately check your used memory and saved items, such as, GALLERY, SAMSUNG NOTES, and SAMSUNG CLOUD DRIVE. Tap each card and enter the next page. You can change the settings or check the saved data.
- You can check the backup data in your Samsung account by using the BACKUP AND RESTORE option. Select your device and tap Restore data.
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.
- Leaving the touchscreen idle for extended periods may result in afterimages (screen burn-in) or ghosting. Turn off the touchscreen when you do not use the device.
- The device may not 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.
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.
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, press the Home key or tap the Back key.

If you add the Apps button on the Home screen, you can open the Apps screen by tapping the button. On the Home screen, tap and hold an empty area and tap Home screen settings \rightarrow Apps button \rightarrow Show Apps button \rightarrow APPLY. The Apps button will be added at the bottom of the Home screen.
Moving items
Tap and hold an item, and then drag it to a new location. To move the item to another panel, drag it to the side of the screen.

To add a shortcut to an app on the Home screen, tap and hold an item on the Apps screen, and then drag it to the top or bottom of the screen. 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 applications to quickly access and launch apps.

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

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

- Adding more apps
  Tap ADD APPS on the folder. Tick the apps to add and tap ADD. 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  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:** Change the size of the grid to display more or fewer items on the Home screen and more.

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.

<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>
<tr>
<td>🔊</td>
<td>Mute mode activated</td>
</tr>
<tr>
<td>🎨</td>
<td>Vibration mode activated</td>
</tr>
<tr>
<td>✈️</td>
<td>Flight mode activated</td>
</tr>
<tr>
<td>⚠️</td>
<td>Error occurred or caution required</td>
</tr>
<tr>
<td>⚩️</td>
<td>Battery charging</td>
</tr>
<tr>
<td>⚩️</td>
<td>Battery power level</td>
</tr>
</tbody>
</table>
Lock screen

Pressing the Power key turns off the screen and locks it. Also, the screen turns off and automatically locks if the device is not used for a specified period.
To unlock the screen, swipe in any direction when the screen turns on.
If the screen is off, press the Power key or the Home 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, or password 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.

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

Screen capture

Capture a screenshot while using the device.

Press and hold the Home key and the Power key simultaneously. You can view captured images in Gallery.

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

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

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

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

You can use the following functions on the notification panel.

- Quick setting buttons
- View the notification details and perform various actions.
- Access the notification settings.
- Clear all notifications.
- Launch Settings.
Using quick setting buttons

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

To change feature settings, tap the text under each button. To view more detailed settings, tap and hold a button.

To rearrange buttons, tap → **Button order**, tap and hold a button, and then drag it to another location.


Entering text

Keyboard layout

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

- When the keyboard is opened for the first time, the keyboard setup screen will appear. Set the input language, keyboard type, and keyboard settings and then tap \textit{START}.
- 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 a space.
- View more keyboard functions.
- Delete a preceding character.
- Break to the next line.
- Enter symbols.
- Enter uppercase. For all caps, tap it twice.

Changing the input language

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

Changing the keyboard layout

Tap \textit{Languages and types}, select a language, and then select a keyboard layout to use.

On \textit{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

- 😊: Enter emoticons.
- 🎨: Enter stickers.
- 🎁: Attach animated GIFs.
- 🎤: Enter text by voice.
- ☑️: Change the keyboard settings.
- ✔️ → 📚: Add an item from the clipboard.
- ✔️ → 🖱️: Change the keyboard for one-handed operation.

Copying and pasting

1. Tap and hold over text.

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

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

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

Installing or uninstalling apps

**Galaxy Apps**

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

Open the Samsung folder and launch the Galaxy Apps app.

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

**Installing apps**

Browse apps by category or tap the search field to search for a keyword.

Select an app to view information about it. To download free apps, tap INSTALL. To purchase and download apps where charges apply, tap the price and follow the on-screen instructions.

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

**Play Store**

Purchase and download apps.

Launch the Play Store app.

**Installing apps**

Browse apps by category or search for apps by keyword.

Select an app to view information about it. To download free apps, tap INSTALL. To purchase and download apps where charges apply, tap the price and follow the on-screen instructions.

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

Uninstalling or disabling apps
Tap and hold an app and select an option.

- **Disable**: Disable selected default apps that cannot be uninstalled from the device.
- **Uninstall**: Uninstall downloaded apps.

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

Setting app permissions
For some apps to operate properly, they may need permission to access or use information on your device. When you open an app, a pop-up window may appear and request access to certain features or information. Tap **ALLOW** on the pop-up window to grant permissions to the app.

To view your app permission settings, launch the **Settings** app and tap **Apps**. Select an app and tap **Permissions**. You can view the app’s permissions list and change its permissions.

To view or change app permission settings by permission category, launch the **Settings** app and tap **Apps → ▼ → App permissions**. Select an item and tap the switches next to apps to grant permissions.

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

Introduction

Bixby is a new interface that can communicate with you and it provides services that help you to use your smartphone more conveniently.

• **Bixby Home**: You can view recommended services and information that Bixby provides by analyzing your usage patterns and your routine.

• **Reminder**: You can create reminders to schedule to-do items or to view content later.

  • To use the Bixby feature, your device must be connected to a Wi-Fi or mobile network.
  • To use the Bixby feature, you must register and sign in to your Samsung account.

Starting Bixby

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

1. Swipe to the right on the Home screen.

2. Check the Bixby intro page and tap **NEXT**.

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

   If you are already signed in, this step will not appear.

4. Tap **DONE** to finish registering your Samsung account.

5. Read and agree to the terms and conditions and tap **NEXT**.
   The Bixby Home screen will appear.
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.

Opening Bixby Home

1. Swipe to the right on the Home screen. The Bixby Home screen will appear.

2. Swipe upwards or downwards to view recommended content.

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

When you open Bixby Home, you can view the content that is frequently updated as Bixby cards. Swipe upwards or downwards to view the Bixby 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. In the evening, you can view alarms, check your daily activity, and view your friends' feeds.

The content and order of the cards update automatically at a specified interval. To manually update cards, swipe downwards on the screen.

Editing Bixby 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 hide a card from the list, tap → Hide for now.
- To stop displaying a card on the list, tap → Don't show again.

Selecting apps to show as Bixby cards

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

On the Bixby Home screen, tap → Settings → Cards and tap the switches next to items to add or delete them.

If an app is not installed on the device, you must install it to use it. On the Bixby Home screen, tap → Settings → Cards and then download an app.
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 register and sign in to your Samsung account.
- To use location reminders, the GPS feature must be activated.

Starting Reminder

You can start Reminder from Bixby Home.

1. Swipe to the right on the Home screen.
   The Bixby Home screen will appear.

2. Tap **GET STARTED** on the **UPCOMING REMINDERS** card.
   The Reminder intro page will appear.

3. Tap **START**.
   If the Add Reminder on Home screen option is ticked, you can launch the Reminder app (/favicon) from the Home 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 and enter ‘Water the flowers’.

3. Tap Set conditions → 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.

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

1. Select a reminder to edit and tap EDIT. Alternatively, swipe right on a reminder 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**. Alternatively, swipe to the left on a reminder.

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, swipe right on a reminder and tap **Delete**. To delete multiple reminders, tap and hold a reminder, tick reminders to delete, and then tap **DELETE**.

Customizing Bixby settings

On the Bixby Home screen, tap **→ Settings**.

- **Samsung account**: View your Samsung account information.
- **Cards**: Select apps to show as cards on the Bixby Home screen.
- **Auto-update Bixby**: Set the device to update Bixby software automatically even when using your mobile network.

> You can incur additional charges when using this feature.

- **Notifications**: Set to receive notifications about Bixby Home cards, marketing information, and more.
- **Privacy**: Set to use Bixby’s interactive and customized services to enhance your experience. You can also delete Bixby interaction data.
- **About Bixby**: View the Bixby version and legal information.
Phone

Introduction

Make or answer voice calls.

Making calls

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

2. Tap 📞 to make a voice call.
Making calls from call logs or contacts list

Tap RECENTS or CONTACTS, and then swipe to the right on a contact or a phone number to make a call. If this feature is deactivated, launch the Settings app, tap Advanced features, 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, tap 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 an international call

1. Tap to open the keypad if the keypad does not appear on the screen.
2. Tap and hold 0 until the + sign appears.
3. 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 rejection message bar upwards.
To create various rejection messages, launch the Phone app, tap ☰ → Settings → Quick decline messages, enter a message, and then tap +.

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

Blocking phone numbers
Block calls from specific numbers added to your block list.

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

2 Tap ☻, select contacts, and then tap DONE.
   To manually enter a number, tap Enter phone number, enter a phone number, and then tap +.
When blocked numbers try to contact you, you will not receive notifications. The calls will be logged in the call log.

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

During a voice call

The following actions are available:

- •: Access additional options.
- Add call: Dial a second call. The first call will be put on hold. When you end the second call, the first call will be resumed.
- Extra volume: Increase the volume.
- Bluetooth: Switch to a Bluetooth headset if it is connected to the device.
- Speaker: Activate or deactivate the speakerphone. When using the speakerphone, 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 Contact

Adding a phone number to Contacts from the keypad

1 Launch the **Phone** app.

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

3 Tap **CREATE CONTACT** to create a new contact, or tap **UPDATE EXISTING** to add the number to an existing contact.

Adding a phone number to Contacts from the calls list

1 Launch the **Phone** app and tap **RECENTS**.

2 Tap a phone number → **Details**.

3 Tap **Create contact** to create a new contact, or tap **Update existing** 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 Contact. This allows you to view the caller’s information when they call without having them listed in Contact.

1 Launch the **Phone** app and tap **RECENTS**.

2 Tap a phone number → **Details**.

3 Tap **Add tag**, enter a tag, and then tap **DONE**. 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, tap ☰, and then select a storage location.

2 Enter contact information.

3 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/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 Cloud and accounts → Accounts and select the account to sync with.

2. Tap Sync account and tap the Sync Contacts switch to activate it.
   - For the Samsung account, tap → Sync settings and tap the Contacts switch to activate it.
Searching for contacts

Launch the Contacts app.

Use one of the following search methods:

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

Tap the contact’s name → Details. 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.

- 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 → Profile sharing, and then 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 Share with, 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 Groups → CREATE.
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 Groups, select a group, and then tap → 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 `→ Manage contacts → Merge contacts`.

2. Tick contacts and tap MERGE.

Deleting contacts

1. Launch the Contacts app and tap `→ Delete`.

2. Select contacts and tap DELETE.

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

Introduction
Send and view messages by conversation.

Sending messages

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

1. Launch the Messages app and tap 📭.

2. Add recipients and tap START.

3. 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 keyboard is hidden.

4. 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.

3. View your conversation.

   To reply to the message, tap Enter message, enter a message, and then tap 🔄.

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 INBOX and select a contact. Or, tap CONTACTS, select contacts, and then tap DONE.

   To manually enter a number, tap Enter number, enter a phone number, and then 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 → Notification reminder, and then tap the switch to activate it. Then, tap the Messages switch to activate it.
Internet

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

Browsing webpages

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

To view the toolbars, drag your finger downwards slightly on the screen.

- Bookmark the current webpage.
- Access additional options.
- Refresh the current webpage.
- Open the homepage.
- View your bookmarks, saved webpages, and recent browsing history.
- Quick menu
- Move between pages.
- Open the browser’s tab manager.
Using secret mode

In secret mode, you can separately manage open tabs, bookmarks, and saved pages. You can lock secret mode using a password.

Activating secret mode

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

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

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

Changing security settings

You can change your password.
Tap 📋 → Settings → Privacy → Secret mode security → Change password.

Deactivating secret mode

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

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

1. Open the Samsung folder and launch the Email app.

2. Enter the email address and password, and then tap SIGN IN.
   To manually register an email account, tap MANUAL SETUP.

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

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

Sending emails

1. Tap 📧 to compose an email.

2. Add recipients and enter an email text.

3. Tap SEND to send the mail.

Reading emails

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

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

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

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

Launching Camera
Use the following methods to launch Camera:
• Launch the Camera app.
• Press the Home key twice quickly.
• On the locked screen, drag outside the 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.
Using swipe gestures

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

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

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

This feature is only available in some shooting modes.

Basic shooting

Taking photos or recording videos

1. Tap the image on the preview screen where the camera should focus.
2. Tap (●) to take a photo or tap (○) to record a video.

- To adjust the brightness of photos or videos, tap the screen. When the adjustment bar appears, drag (jured) on the adjustment bar towards (●) or (○).
- To capture an image from the video while recording, tap (●).
• To change the focus while recording a video, tap where you want to focus. To use auto focus mode, tap 📷.

- 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.

**Adding another camera button**

Add another camera button to the location you want on the screen to capture photos more conveniently.

Drag 📷 to the preview screen.

If another camera button is not added, tap 📷 on the preview screen and tap the **Floating Camera button** switch to activate it.
**Zooming in and out**

Use various methods to zoom in or out.

- Spread two fingers apart on the screen to zoom in, and pinch to zoom out.
- Control the zoom with one finger. Drag on the zoom bar towards ‡ or †.

Zooming features are available only when using the rear camera.

**Locking the focus (AF) and exposure (AE)**

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

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

This feature is available only in **Auto** and **Pro** modes.

**Customizing shooting modes**

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

To view the description of each mode, tap ➔ **Information**.

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

To add mode shortcuts to the Home screen, tap ➔ **Add shortcut on Home screen**.

**Auto mode**

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

On the shooting modes list, tap **Auto**.
Pro mode

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

On the shooting modes list, tap Pro. Select options and customize the settings, and then tap 📸 to take a photo or tap 🎥 to record a video.

Available options

- 📸: 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, decrease the exposure.
- 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.

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 Panorama.
2. Tap 📸 and move the device slowly in one direction.
3. Tap ✖ to stop taking photos.
**Continuous shot mode**

Take a series of photos of moving subjects.
On the shooting modes list, tap **Continuous shot**.
Tap and hold to take several photos continuously.

**HDR (Rich tone) mode**

Take photos with rich colours and reproduce details even in bright and dark areas.
On the shooting modes list, tap **HDR HDR (Rich tone)**.

![Without effect](image1)
![With effect](image2)

**Night mode**

Take a photo in low-light conditions, without using the flash.
On the shooting modes list, tap **Night**.

**Sports mode**

Take clearer photos of fast-moving subjects, such as a person running or a pet in motion.
On the shooting modes list, tap **Sports**.

**Sound & shot mode**

Take a photo with sound. The device identifies the photos with 🎧 in **Gallery**.
On the shooting modes list, tap **Sound & shot**.
Selfie mode

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

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

2. On the shooting modes list, tap Selfie.

3. Face the front camera lens.

4. Tap 📸 to take a photo.

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

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

Using the selfie flash

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

On the preview screen, tap ⌙ repeatedly until you reach ⌙. When you take a photo, the touchscreen will flash.

Applying beauty effects

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

This feature is available only in Selfie mode.

1. On the preview screen, tap 🌼.

2. Select the options below to apply beauty effects to your face on the preview screen and take a photo of yourself.

   - **Skin tone**: Make your skin appear brighter and clearer.
   - **Slim Face**: Adjust the face shape and make your face appear slimmer.
   - **Large Eyes**: Make your eyes appear bigger.
Wide selfie mode

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

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

2. On the shooting modes list, tap **Wide selfie**.

3. Face the front camera lens.

4. Tap 📸 to take a photo.

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

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

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

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

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

- : Turn on and off the full preview screen.
- : Activate or deactivate the flash.
- : 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.
- : Set the device to record sound before or after taking a photo.

Camera settings

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

REAR CAMERA

- Picture size: Select a resolution for photos. Using a higher resolution will result in higher quality photos, but they will take up more memory.
- Video size: Select a resolution for videos. Using a higher resolution will result in higher quality videos, but they will take up more memory.
- Timer: Select the length of the delay before the camera automatically takes a photo.
FRONT CAMERA

- **Picture size**: Select a resolution for photos. Using a higher resolution will result in higher quality photos, but they will take up more memory.
- **Video size**: Select a resolution for videos. Using a higher resolution will result in higher quality videos, but they will take up more memory.
- **Save pictures as previewed**: Invert the image to create a mirror-image of the original scene, when taking photos with the front camera.
- **Shooting methods**: Select shooting options to use.
- **Timer**: Select the length of the delay before the camera automatically takes a photo.

COMMON

- **Grid lines**: Display viewfinder guides to help composition when selecting subjects.
- **Location tags**: Attach a GPS location tag to the photo.
  
  - GPS signal strength may decrease in locations where the signal is obstructed, such as between buildings or in low-lying areas, or in poor weather conditions.
  - Your location may appear on your photos when you upload them to the Internet. To avoid this, deactivate the location tag setting.
- **Review pictures**: Set the device to show photos after capturing them.
- **Quick launch**: Set the device to launch the camera by pressing the Home key twice quickly.
- **Storage location**: Select the memory location for storage.
- **Floating Camera button**: Add a camera button that you can place anywhere on the screen.
- **Volume key function**: Set the device to use the Volume key to control the shutter or zoom in or out.
- **Reset settings**: Reset the camera settings.
- **Contact us**: Ask questions or view frequently asked questions. Refer to Samsung Members for more information.

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

Gallery

Introduction

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

Viewing images

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

You can create a GIF animation or collage from multiple images. 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, types, locations, or documents.

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

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

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

3. Tap ➤ 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

You can view file details, such as people, location, and basic information. If there is auto created content, such as a story or a GIF, the content will also be displayed.

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 albums

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

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

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. Select albums to hide and tap APPLY.

To show albums again, tap → Hide or unhide albums, deselect albums to show, and then tap APPLY.
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. Tick images or videos to include in the story and tap DONE.

4. Enter a title for the story and tap CREATE.

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

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

Deleting stories

1. Launch the Gallery app and tap STORIES.

2. Tap and hold a story to delete, and tap DELETE.
Syncing images and videos with Samsung Cloud

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

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

Deleting images or videos

Deleting an image or a video

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

Deleting multiple images and videos

1. On the Gallery screen, tap and hold an image or a video to delete.
2. Tick the images or videos to delete.
3. Tap DELETE.
Multi window

Introduction

Multi window lets you run two apps at the same time in the split screen view.

Some apps may not support this feature.
Split screen view

1 Tap 📅 to open the list of recently used apps.

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

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

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

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.

Minimizing the split screen view

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

To close the minimized split screen view, tap .
Sharing text or images between windows

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

⚠️ Some apps may not support this feature.
**Adding app pairs to the Home screen**

When you add app pairs to the Home screen, you can launch two apps in the split screen view with a single tap.

Tap the bar between the app windows and tap ➕. The current app pair will be added on the Home screen.

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**Samsung Gear**

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

Open the Samsung folder and launch the Samsung Gear app.

Tap START THE JOURNEY to connect your device to the Gear. Follow the on-screen instructions to finish the setup. Refer to the Gear’s user manual for more information about how to connect and use the Gear with your device.

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

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

- This app’s availability and supported features may vary depending on the region or service provider.
- 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 ALL → .

2. Select an input method from the toolbar at the top of the screen and compose a note. Tap → Image to insert an image by selecting from Gallery or by taking a photo. Tap → Voice to record a voice recording and insert it into the note. Voice recording will start immediately.

Enter text using the keyboard.  
Write or draw with pens.  
Paint with brushes.  
Insert an image or a voice recording.

3. When you are finished composing the note, tap SAVE.

Deleting notes

1. Launch the Samsung Notes app, tap ALL or COLLECTIONS, and then select a category.

2. Tap and hold a note to delete. To delete multiple notes, tick more notes to delete.

3. Tap .
**Calendar**

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

**Creating events**

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

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

3. Tap **SAVE** to save the event.
Creating tasks

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

Syncing events and tasks with your accounts

1. Launch the Settings app, tap Cloud and accounts → Accounts and select the account to sync with.
2. Tap Sync account and tap the Sync Calendar switch to activate it.
   For the Samsung account, tap → Sync settings and tap the Calendar switch to activate it.
   To add accounts to sync with, launch the Calendar app and tap → Manage calendars → Add account. Then, select an account to sync with and sign in. When an account is added, 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.

Open the Samsung folder and launch the My Files app.

View files that are stored in each storage. You can also view files in your device or a memory card by category.

To free up the device's storage, tap → Get more space.

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 globe, and then tap **ADD**.

**Deleting clocks**

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

**STOPWATCH**

1. Launch the **Clock** app and tap **STOPWATCH**.

2. Tap **START** to time an event.
   
   To record lap times while timing an event, tap **LAP**.

3. Tap **STOP** to stop timing.
   
   To restart the timing, tap **RESUME**.
   
   To clear lap times, tap **RESET**.
**TIMER**

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

**Calculator**

Perform simple or complex calculations.

Launch the Calculator app.

Rotate the device to landscape orientation to display the scientific calculator. If Auto-rotate is disabled, tap to display the scientific calculator.

To see the calculation history, tap HISTORY. To close the calculation history panel, tap KEYPAD.

To clear the history, tap HISTORY → CLEAR HISTORY.

To use the unit conversion tool, tap . You can convert various values, such as area, length, or temperature, into other units.
Game Launcher

Introduction

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

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

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

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

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

2 Launch the Game Launcher app.

3 Tap a game from the games list.
   To find more games, drag the screen upwards.

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

Removing a game from Game Launcher

Tap and hold a game and tap Remove.

Changing the performance mode

You can change the game performance mode.

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

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

Battery power efficiency may vary by game.
Using Game Tools

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

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

Blocking notifications during games

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

• Link Sharing: Share large files. Upload files to the Samsung storage server and share them with others via a Web link or a code. To use this feature, your phone number must be verified.

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

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

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.
Apps and features

**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.
Introduction

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

Launch the Settings app.

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

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.

- **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.

- **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 airplane mode.
Mobile Hotspot and Tethering: Use the device as a mobile hotspot to share the device's mobile data connection with other devices when the network connection is not available. Connections can be made via Wi-Fi, USB, or Bluetooth. Refer to Mobile Hotspot and Tethering for more information.

Mobile networks: Configure your mobile network settings.

Location: Change settings for location information permissions.

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

Wi-Fi

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

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

Connecting to a Wi-Fi network

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

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

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

- Once the device connects to a Wi-Fi network, the device will reconnect to that network each time it is available without requiring a password. To prevent the device connecting to the network automatically, select it from the list of networks and tap Auto reconnect to remove the checkmark. To delete the saved connection information for a network, select it from the list of networks and tap FORGET.

- If you cannot connect to a Wi-Fi network properly, restart your device's Wi-Fi feature or the wireless router.
Wi-Fi Direct

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

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

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

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

Sending and receiving data

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

1. Launch the Gallery app and select an image.

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

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

Ending the device connection

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

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

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

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

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

Pairing with other Bluetooth devices

1. On the Settings screen, tap Connections → Bluetooth, and then tap the switch to activate it.
   The detected devices will be listed.

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

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

3. Accept the Bluetooth connection request on your device to confirm.
   The devices will be connected when the other device accepts the Bluetooth connection request.
Sending and receiving data

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

1. Launch the Gallery app and select an image.

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

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

Unpairing Bluetooth devices

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

2. Tap next to the device name to unpair.

3. Tap Unpair.

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 Hotspot and Tethering

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

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

- You may incur additional charges when using this feature.
- **Mobile Hotspot**: Use the mobile hotspot to share the device’s mobile data connection with computers or other devices.
- **USB tethering**: Use USB tethering to share the device’s mobile data connection with a computer via USB. When connected to a computer, the device is used as a wireless modem for the computer.

Using the mobile hotspot

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

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

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

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

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

Customize settings to control other features.

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

- Nearby device scanning: Set the device to scan for nearby devices to connect to.
- Printing: Configure settings for printer plug-ins installed on the device. You can search for available printers or add one manually to print files. Refer to Printing for more information.
- VPN: Set up and connect to virtual private networks (VPNs).

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

5. Select a printer to add.

To add printers manually, tap → 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.

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.
- **Use Volume keys for media**: Set the device to adjust the media volume level when you press the Volume key.
- **Volume**: Adjust the volume level for call ringtones, music and videos, system sounds, and notifications.
- **Ringtone**: Change the call ringtone.
- **Vibration pattern**: Select a vibration pattern.
- **Notification sounds**: Change the notification sound.
- **Do not disturb**: Set the device to mute incoming calls, notification sounds, and media, except for allowed exceptions.
- **Touch sounds**: Set the device to sound when you select an app or option on the touchscreen.
- **Screen lock sounds**: Set the device to sound when you lock or unlock the touchscreen.
- **Charging sound**: Set the device to sound when it is connected to a charger.
- **Dialing keypad tones**: Set the device to sound when you tap the buttons on the keypad.
- **Keyboard sound**: Set the device to sound when a key is touched.
- **Sound quality and effects**: Configure additional sound settings.

  You can also activate the surround sound mode. Refer to **Dolby Atmos (surround 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 flows 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 earphones.

**Notifications**

Change the notification settings for each app.

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

To display icon badges, tap the **App icon badges** switch to activate it. To change the badge style, tap **App icon badges**.

To customize notification settings for more apps, tap **ADVANCED** and select an app.
Display

Options

Change the display and the Home screen settings.

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

- **Brightness**: Adjust the brightness of the display.
- **Outdoor mode**: Activate outdoor mode to make the display easier to see in bright conditions.
- **Font and screen zoom**: Change the screen zoom setting or font size and style.
- **Screen mode**: Change the screen mode to adjust the display's colour and contrast.
- **Home screen**: Change the size of the grid to display more or fewer items on the Home screen and more.
- **Easy mode**: Switch to easy mode to display larger icons and apply a simpler layout to the Home screen.
- **Icon frames**: Set whether to display shaded backgrounds to make icons stand out.
- **Status bar**: Customize the settings for displaying notifications or indicators on the status bar.
- **Screen timeout**: Set the length of time the device waits before turning off the display's backlight.
- **Screensaver**: Set the device to launch a screen saver when the device is charging. Refer to **Screensaver** for more information.
**Screensaver**

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

1. On the Settings screen, tap **Display → Screensaver** and tap the switch to activate it.

2. Select an option.
   - If you select **Photo Frame**, 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 screen saver is displayed, the screen will turn on.

**Wallpapers and themes**

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

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

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

Activate advanced features and change the settings that control them.

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

- **Games**: Activate the Game Launcher. Refer to **Game Launcher** for more information.
- **One-handed mode**: Activate one-handed operation mode for your convenience when using the device with one hand.
- **Quick launch Camera**: Set the device to launch the camera by pressing the Home key twice quickly.
- **Multi window**: Select a Multi window launch method.
- **Direct call**: Set the device to make a voice call by picking up and holding the device near your ear while viewing message or contact details.
- **Smart alert**: Set the device to alert you if you have missed calls or new messages when you pick up the device.

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.
- **Swipe to call or send messages**: Set the device to make a call or send a message when you swipe to the right or left on a contact or a phone number.
- **Dual Messenger**: Install the second app and use two separate accounts for the same messenger app. Refer to **Dual Messenger** for more information.
- **Send SOS messages**: Set the device to send help messages by pressing the Power key three times. You can also send sound recordings along with the message to the recipients.
- **Direct share**: Set the device to display the people you contacted on the sharing options panel to allow you to share content directly.
Dual Messenger

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

Uninstalling a second app

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

2. Tap the switch of the app you want to disable 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.
**Device maintenance**

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

**Using the quick optimization feature**

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

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

On the Settings screen, tap **Device maintenance → Battery**.

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

Power saving mode

- **MID**: Activate power saving mode to extend the battery’s usage time.
- **MAX**: In maximum power saving mode, the device decreases battery consumption by applying the dark theme and limiting the apps and features available. Network connections, except for the mobile network, will be deactivated.

Managing the battery

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

Storage

Check the status of the used and available memory.

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

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

Managing the memory

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 under **USER DATA**. Then, tick items to select and tap **DELETE** or **UNINSTALL**.
Memory
On the Settings screen, tap **Device maintenance → Memory**.
To speed up your device by reducing the amount of memory you are using, tick apps from the apps list, and tap **CLEAN NOW**.

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

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

Lock screen
Change 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 automatically unlock itself in certain situations.
- **Secure lock settings**: Change screen lock settings for the selected lock method.
- **Clock style**: Change the clock type and colour on the locked screen.
- **Roaming clock**: Set the device to show the dual clock when you are roaming.
- **FaceWidgets**: Change settings for the items displayed on the locked screen.
- **Contact information**: Enter your information that is shown with the clock.
- **Notifications**: Set whether or not to show notification content on the locked screen and select which notifications to display.
- **App shortcuts**: Select apps to display shortcuts to them on the locked screen.
Security

Options

Change the settings for securing the device.

On the Settings screen, tap Security.

- **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 security system and check for updates.
- **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.
- **App permission monitor:** Set to receive notifications when the permissions you select are used by apps that you are not using. You can manage the settings of each app and view their permission usage history.
- **Secure startup:** Protect your device by setting it to require a screen unlock code when turning on the device. You must enter the unlock code to start the device and receive messages and notifications.
- **Encrypt SD card:** Set the device to encrypt files on a memory card.

⚠️ If you reset your device to the factory defaults with this setting enabled, the device will not be able to read your encrypted files. Disable this setting before resetting the device.

- **Other security settings:** Configure additional security settings.
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.
Creating Secure Folder

1. Launch the Settings app and tap Security → Secure Folder.

2. Tap START.

3. Tap SIGN IN and sign in to your Samsung account.

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

   A shortcut to Secure Folder will be added to the Apps screen.

   To change the name or icon colour of Secure Folder, tap Secure Folder → Customise icon.

   • 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 reset 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.
Moving content to Secure Folder

Move content, such as photos and contacts, 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 Apps, tap DOWNLOAD FROM PLAY STORE or DOWNLOAD FROM GALAXY APPS.

Removing apps from Secure Folder

Tap Edit apps, tick apps, and then tap Disable or 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 Secure Folder switch to deactivate it.

Alternatively, drag the status bar downwards to open the notification panel. Then, swipe downwards on the notification panel and 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 register and sign in to your Samsung account.
3. Tap Back up Secure Folder data.
4. Tick items you want to back up and tap BACK UP NOW. 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. Select a device and the data types you want to restore and tap RESTORE NOW. 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 from Secure Folder, open the Samsung folder, launch the My Files app, and then tap Internal storage → Secure Folder.

Notes saved in Samsung Notes will not be backed up.
Cloud and accounts

Options

Sync, back up, or restore your device’s data using Samsung Cloud. You can also register and manage accounts, such as your Samsung account or Google account, and transfer data to or from other devices via Smart Switch.

On the Settings screen, tap **Cloud and accounts**.

⚠️ Regularly back up your data to a safe location, such as Samsung Cloud or a computer, so that you can restore it if the data is corrupted or lost due to an unintended factory data reset.

- **Samsung Cloud**: Manage the content that you want to store securely in Samsung Cloud. Check the usage status of your Samsung Cloud storage, and sync, back up, and restore your data. Refer to **Samsung Cloud** for more information.
- **Accounts**: Add your Samsung and Google accounts, or other accounts, to sync with.
- **Backup and restore**: Keep your personal information, app data, and settings safe on your device. You can back up your sensitive information and access it later. You must sign in to your Google or Samsung account to back up or restore data. Refer to **Backup and restore** for more information.
- **Smart Switch**: Launch Smart Switch and transfer data from your previous device. Refer to **Smart Switch** for more information.
Backup and restore

Keep your personal information, app data, and settings safe on your device. You can back up your sensitive information and access it later. You must sign in to your Google or Samsung account to back up or restore data.

Using a Samsung account

On the Settings screen, tap Cloud and accounts → Backup and restore → Back up data for the Samsung account, tick items you want to back up, and then tap BACK UP.

Data will be backed up to Samsung Cloud. Refer to Samsung Cloud for more information.

To restore backup data from Samsung Cloud using a Samsung account, tap Restore data. Select a device and the data types you want to restore and tap RESTORE. The selected data will be restored to your device.

Using a Google account

On the Settings screen, tap Cloud and accounts → Backup and restore and tap the Back up my data switch for the Google account to activate it. Tap Backup account and select an account as the backup account.

To restore data using a Google account, tap the Automatic restore switch to activate it. When you reinstall apps, backed up settings and data will be restored.
Google

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

Accessibility

Configure various settings to improve accessibility to the device.
On the Settings screen, tap Accessibility.

- **Vision**: Customize the settings to improve accessibility for visually impaired users.
- **Hearing**: Customize the settings to improve accessibility for users with hearing impairment.
- **Dexterity and interaction**: Customize the settings to improve accessibility for users who have reduced dexterity.
- **Text-to-speech**: Change the settings for text-to-speech features used when voice feedback feature is activated, such as languages, speed, and more.
- **Direction lock**: Change the directional combination settings for unlocking the screen.
- **Direct access**: Set the device to launch selected accessibility menus when you press the Power key and the Volume Up key simultaneously or press the Home key three times quickly.
- **Accessibility shortcut**: Set the device to activate TalkBack, Switch Access, or Select to Speak when you press and hold the Volume Up key and the Volume Down key simultaneously for more than 3 seconds.
- **Notification reminder**: Set the device to alert you to notifications that you have not checked at the interval.
- **Answering and ending calls**: Change the method of answering or ending calls.
- **Single tap mode**: Set the device to control incoming calls or notifications by tapping the button instead of dragging it.
- **SERVICES**: View accessibility services installed on the device.
**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 following settings to control how the device displays the time and date.
  - If the battery becomes fully discharged or is removed from the device, the time and date is reset.
- **Contact us**: Ask questions or view frequently asked questions. Refer to Samsung Members for more information.
  - This feature may not be available depending on the region or service provider.
- **Report diagnostic information**: Set the device to automatically send the device’s diagnostic and usage information to Samsung.
- **Marketing information**: Set whether to receive Samsung marketing information, such as special offers, membership benefits, and newsletters.
- **Reset**: Reset your device’s settings or perform a factory data reset. You can reset all your settings and network settings.

**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, drag next to a language and move it to the top of the list. Then, tap **DONE**. If an app does not support the default language, the next supported language in the list will be used.

**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**.

- **Download updates manually**: Check for and install updates manually.
- **Download updates automatically**: Set the device to download updates automatically when connected to a Wi-Fi network.
- **Scheduled software updates**: Set the device to install downloaded updates at a specified time.
- **Last update information**: View information about the last software update.

**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.
User manual

View help information to learn how to use the device and apps or configure important settings.

About phone

Access your device's information.
On the Settings screen, tap About phone.

- **Status**: View various device information, such as the SIM card status, IMEI information, 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.

Checking your device's IMEI information

The International Mobile Equipment Identity (IMEI) is a unique number assigned to your device. You can check whether your device was reported as stolen or lost prior to buying it using the IMEI number.

To view your device's IMEI number, enter *#06# on the dialing keypad or access your device's Settings app.

This feature may not be supported by some devices.
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 Power key and the Volume Down key simultaneously for more than 7 seconds to restart it.

Resetting the device

If the methods above do not solve your problem, perform a factory data reset.

Launch the Settings app and 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 icon is empty

Your battery is low. Charge the battery.
Appendix

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-colored 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.
Appendix

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 license 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.

Another Bluetooth device is not located

• Ensure that the Bluetooth wireless feature is activated on your device.
• Ensure that the Bluetooth wireless feature is activated on the device you wish to connect to.
• Ensure that your device and the other Bluetooth device are within the maximum Bluetooth range (10 m).

If the tips above do not solve the problem, contact a Samsung Service Centre.

A connection is not established when you connect the device to a computer

• Ensure that the USB cable you are using is compatible with your device.
• Ensure that you have the proper driver installed and updated on your computer.
• If you are a Windows XP user, ensure that you have Windows XP Service Pack 3 or higher installed on your computer.
Your device cannot find your current location

GPS signals may be obstructed in some locations, such as indoors. Set the device to use Wi-Fi or a mobile network to find your current location in these situations.

Data stored in the device has been lost

Always make backup copies of all important data stored in the device. Otherwise, you cannot restore data if it is corrupted or lost. Samsung is not responsible for the loss of data stored in the device.

A small gap appears around the outside of the device case

- This gap is a necessary manufacturing feature and some minor rocking or vibration of parts may occur.
- Over time, friction between parts may cause this gap to expand slightly.

There is not enough space in the device’s storage

Delete unnecessary data, such as cache, using the device maintenance or manually delete unused apps or files to free up storage space.

The Apps button does not appear on the Home screen

Without using the Apps button, you can open the Apps screen by swiping upwards or downwards on the Home screen. To return to the Home screen, swipe upwards or downwards on the Apps screen. To display the Apps button at the bottom of the Home screen, launch the Settings app and tap Display → Home screen → Apps button → Show Apps button → APPLY.
Appendix

The screen brightness adjustment bar does not appear on the notification panel

Open the notification panel by dragging the status bar downwards, and then drag the notification panel downwards. Tap √ next to the brightness adjustment bar and tap the Show control on top switch to activate it.

Samsung Cloud does not work

- Ensure that you are connected to a network properly.
- During Samsung Cloud's service check, you cannot use Samsung Cloud. Try again later.
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.
Health and Safety

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 summertime. 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.
Health and Safety

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 Industry 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 Industry Canada. 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.

This device has been tested and meets RF exposure guidelines when used with an accessory that contains no metal and that positions the mobile device 15 mm 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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IC Notice

This Class B digital apparatus complies with Canadian ICES-003.

This device complies with Industry 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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