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Basics

Read me first

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

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

• Depending on the region, you can view the regulatory information on the device. To view the information, tap Apps → Settings → About device → Regulatory information.

**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
Package contents

Check the product box for the following items:

- Device
- Quick start guide

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

### Keys

<table>
<thead>
<tr>
<th>Key</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Power" /></td>
<td>• Press and hold to turn the device on or off.&lt;br&gt;• Press to turn on or lock the screen.</td>
</tr>
<tr>
<td><img src="image" alt="Recents" /></td>
<td>• Tap to open the list of recent apps.&lt;br&gt;• Tap and hold to launch the split screen view.</td>
</tr>
<tr>
<td><img src="image" alt="Home" /></td>
<td>• Press to turn on the screen while the screen is locked.&lt;br&gt;• Press to return to the Home screen.&lt;br&gt;• Press and hold to launch <strong>Google</strong>.</td>
</tr>
<tr>
<td><img src="image" alt="Back" /></td>
<td>• Tap to return to the previous screen.&lt;br&gt;• Tap and hold to access additional options for the current screen.</td>
</tr>
<tr>
<td><img src="image" alt="Volume" /></td>
<td>• Press to adjust the device volume.</td>
</tr>
</tbody>
</table>
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.

1. Connect the USB cable to the USB power adaptor, and then plug the end of the USB cable into the multipurpose jack.

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

⚠️ Connecting the charger improperly may cause serious damage to the device. Any damage caused by misuse is not covered by the warranty.
3 After fully charging, disconnect the device from the charger. First unplug the charger from the device, and then unplug it from the electric socket.

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.

**Viewing the remaining charging time**

While charging, open the Home screen and tap **Apps → Settings → Battery**.

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

**Reducing the battery consumption**

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

- Optimise the device using the Smart manager.
- When you are not using the device, switch to sleep mode by pressing the Power key.
- Activate power saving mode.
- Close unnecessary apps.
- Deactivate the Bluetooth feature when not in use.
- Deactivate the Wi-Fi feature when not in use.
- Deactivate auto-syncing of apps that need to be synced, such as emails.
- Decrease the backlight time.
- Decrease the screen brightness.
Battery charging tips and precautions

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

Power saving mode

Save the battery power by limiting the device’s functions.

On the Home screen, tap Apps → Settings → Battery → Power saving mode, and then tap the switch to activate it.

To automatically activate power saving mode when the remaining battery power reaches the preset level, tap Start power saving and select an option.
Ultra power saving mode

Use this mode to extend the device’s battery power. In ultra power saving mode, the device performs the following:

- Displays colours on the screen as grey tones.
- Restricts the available apps to essential and selected apps only.
- Deactivates the mobile data connection when the screen turns off.
- Deactivates the Wi-Fi and Bluetooth features.

On the Home screen, tap Apps → Settings → Battery → Ultra power saving mode, and then tap the switch to activate it.

To deactivate ultra power saving mode, tap MORE → Disable Ultra power saving 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.

SIM or USIM card (nano-SIM card)

Installing the SIM or USIM card

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

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

- In some areas, data transfer speeds may be slower if two SIM cards are inserted in the device than when one SIM card is inserted.
- Some LTE services may not be available depending on the service provider. For more information about service availability, contact your service provider.
1 Insert the ejection pin into the hole on the SIM card tray to loosen the tray.

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

2 Pull out the SIM card tray gently from the SIM card tray slot.
3 Place the SIM or USIM card on the SIM card tray with the gold-coloured contacts facing downwards.

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

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

4 Insert the SIM card tray back into the SIM card tray slot.

**Removing the SIM or USIM card**

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

2 Pull out the SIM card tray gently from the SIM card tray slot.
3 Remove the SIM or USIM card.

4 Insert the SIM card tray back into the SIM card tray slot.

**Using dual SIM or USIM cards**

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

**Activating SIM or USIM cards**

On the Home screen, tap **Apps → Settings → SIM card manager**. Select a SIM or USIM card and tap the switch to activate it.

**Customising SIM or USIM cards**

On the Home screen, tap **Apps → Settings → SIM card manager** and select a SIM or USIM card to access the following options:

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

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

On the Home screen, tap Apps → Settings → SIM card manager and set the feature preferences for your cards in Preferred SIM card.

Memory card (microSD card)

Installing a memory card

Your device accepts memory cards with maximum capacities of 256 GB. Depending on the memory card manufacturer and type, some memory cards may not be compatible with your device.

- 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 asks to reformat the memory card.
- Frequent writing and erasing of data shortens the lifespan of memory cards.
- When inserting a memory card into the device, the memory card’s file directory appears in the My Files → SD card folder.
1 Insert the ejection pin into the hole on the memory card tray to loosen the tray.

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

2 Pull out the memory card tray gently from the memory card tray slot.

3 Place a memory card on the memory card tray with the gold-coloured contacts facing downwards.

4 Insert the memory card tray back into the memory card tray slot.
Removing the memory card

Before removing the memory card, first unmount it for safe removal.
On the Home screen, tap **Apps** → **Settings** → **Storage** → **SD card** → **Unmount**.

1. Insert the ejection pin into the hole on the memory card tray to loosen the tray.
2. Pull out the memory card tray gently from the memory card tray slot.
3. Remove the memory card.
4. Insert the memory card tray back into the memory card tray slot.

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

Formatting the memory card

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

On the Home screen, tap **Apps** → **Settings** → **Storage** → **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**.

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

Restarting the device

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

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.
- The device may not recognise touch inputs close to the edges of the screen, which are outside of the touch input area.
- 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.
- It is recommended to use fingers when you use the touchscreen.
**Tapping**

To open an app, to select a menu item, to press an on-screen button, or to enter a character using the keyboard on the screen, tap it with your finger.

**Tapping and holding**

Tap and hold an item or the screen for more than 2 seconds to access available options.

**Dragging**

To move an item, tap and hold it and drag it to the target position.
Double-tapping
Double-tap on a webpage or image to zoom in. Double-tap again to return.

Swiping
Swipe to the left or right on the Home screen or the Apps screen to view other panels. Swipe upwards or downwards to scroll through a webpage or a list of items, such as contacts.

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

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

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

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

Home screen options

On the Home screen, tap Apps → Settings → Home screen to access the available options. Alternatively, on the Home screen, tap and hold an empty area. Customise the Home screen by adding, deleting, or rearranging Home screen panels. You can also set the Home screen wallpaper, add widgets to the Home screen, and more.

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

• **Screen grid:** Change the size of the grid to display more or less items on the Home screen and the Apps screen.

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**Adding items**

Tap and hold an app or a folder from the Apps screen, and then drag it to the Home screen.

To add widgets, tap and hold an empty area on the Home screen, tap **Widgets**, tap and hold a widget, and then drag it to the Home screen.

**Moving items**

Tap and hold an item on the Home screen, and then drag it to a new location.

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

To move the item to another panel, drag it to the side of the screen.

To move an item more easily, tap and hold an item, and drag it to **Move apps** at the top of the screen. The item will move to the panel at the top of the screen. Swipe to the left or right to move to another panel and drag the item to a new location.
Removing items

Tap and hold an item, and then drag it to Remove at the top of the screen.

Creating folders

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

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

2. Drop the app when a folder frame appears around the apps.
   A new folder containing the selected apps will be created.

3. Tap Enter folder name and enter a folder name.
   To change the folder colour, tap 🎨.

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

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

To delete apps in a folder, tap the folder, and then drag the app you want to delete to Remove at the top of the screen.
Managing panels
On the Home screen, tap and hold an empty area to add, move, or remove a panel.
To add a panel, swipe to the left, and then tap +.
To move a panel, tap and hold a panel preview, and then drag it to a new location.
To remove a panel, tap and hold a panel preview, and then drag it to Remove at the top of the screen.
To set a panel as the main Home screen, tap 🏡.

Apps screen
The Apps screen displays icons for all apps, including newly installed apps.
On the Home screen, tap Apps to open the Apps screen. To view other panels, swipe to the left or right.

Moving items
This feature may not be available depending on the region or service provider.
On the Apps screen, tap EDIT. Tap and hold an item and drag it to a new location.
To move the item to another panel, drag it to the side of the screen.

Creating folders
Create folders and gather similar applications to quickly access and launch apps you want.
This feature may not be available depending on the region or service provider.

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

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

    To delete a folder, select a folder with ✗. Only the folder will be deleted. The folder’s apps will be relocated to the Apps screen.

**Rearranging items**

You can rearrange items in alphabetical order on the Apps screen.
On the Apps screen, tap **A-Z → SAVE**.

**Searching for items**

You can search for items on the Apps screen.
On the Apps screen, tap **SEARCH** and enter characters. The device will search for and display the items containing the characters you entered.
## Indicator icons

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

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

<table>
<thead>
<tr>
<th>Icon</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="No signal" /></td>
<td>No signal</td>
</tr>
<tr>
<td><img src="image" alt="Signal strength" /></td>
<td>Signal strength</td>
</tr>
<tr>
<td><img src="image" alt="Currently accessing SIM or USIM card" /></td>
<td>Currently accessing SIM or USIM card</td>
</tr>
<tr>
<td><img src="image" alt="Roaming (outside of normal service area)" /></td>
<td>Roaming (outside of normal service area)</td>
</tr>
<tr>
<td><img src="image" alt="GPRS network connected" /></td>
<td>GPRS network connected</td>
</tr>
<tr>
<td><img src="image" alt="EDGE network connected" /></td>
<td>EDGE network connected</td>
</tr>
<tr>
<td><img src="image" alt="UMTS network connected" /></td>
<td>UMTS network connected</td>
</tr>
<tr>
<td><img src="image" alt="HSDPA network connected" /></td>
<td>HSDPA network connected</td>
</tr>
<tr>
<td><img src="image" alt="HSPA+ network connected" /></td>
<td>HSPA+ network connected</td>
</tr>
<tr>
<td><img src="image" alt="LTE network connected (LTE-enabled models)" /></td>
<td>LTE network connected (LTE-enabled models)</td>
</tr>
<tr>
<td><img src="image" alt="Wi-Fi connected" /></td>
<td>Wi-Fi connected</td>
</tr>
<tr>
<td><img src="image" alt="Bluetooth feature activated" /></td>
<td>Bluetooth feature activated</td>
</tr>
<tr>
<td><img src="image" alt="GPS activated" /></td>
<td>GPS activated</td>
</tr>
<tr>
<td><img src="image" alt="Call in progress" /></td>
<td>Call in progress</td>
</tr>
<tr>
<td><img src="image" alt="Missed call" /></td>
<td>Missed call</td>
</tr>
<tr>
<td><img src="image" alt="New text or multimedia message" /></td>
<td>New text or multimedia message</td>
</tr>
<tr>
<td><img src="image" alt="Alarm activated" /></td>
<td>Alarm activated</td>
</tr>
<tr>
<td><img src="image" alt="Mute mode activated" /></td>
<td>Mute mode activated</td>
</tr>
<tr>
<td><img src="image" alt="Vibration mode activated" /></td>
<td>Vibration mode activated</td>
</tr>
<tr>
<td><img src="image" alt="Flight mode activated" /></td>
<td>Flight mode activated</td>
</tr>
<tr>
<td><img src="image" alt="Error occurred or caution required" /></td>
<td>Error occurred or caution required</td>
</tr>
<tr>
<td><img src="image" alt="Battery power level" /></td>
<td>Battery power level</td>
</tr>
</tbody>
</table>
Lock screen

Pressing the Power key turns off the screen and locks it. Also, the screen turns off and automatically locks if the device is not used for a specified period. The screen is locked with **Swipe**, the default screen lock method. Press the Power key or the Home key and swipe in any direction to unlock the screen.

To change the screen lock method, on the Apps screen, tap **Settings → Lock screen and security → Screen lock type**, and then select a method.

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

- **Swipe**: Swipe in any direction on the screen to unlock it.
- **Pattern**: Draw a pattern with four or more dots to unlock the screen.
- **PIN**: Enter a PIN with at least four numbers to unlock the screen.
• **Password**: Enter a password with at least four characters, numbers, or symbols to unlock the screen.

• **None**: Do not set a screen lock method.

• **Fingerprints**: Register your fingerprints to unlock the screen. Refer to Fingerprint recognition for more information.

- If the unlock code is forgotten, take the device to a Samsung Service Centre to reset it.

- 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. On the Apps screen, tap Settings → Lock screen and security → Secure lock settings and tap the Auto factory reset switch to activate it.

## Notification panel

### Using the notification panel

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

To open the notification panel, drag the status bar downwards. To close the notification panel, swipe upwards on the screen.
You can use the following functions on the notification panel.

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

Launch Quick connect.

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

Using quick setting buttons
Tap quick setting buttons to activate some features. Swipe to the left or right on the buttons area, or tap → to view more buttons. To view more detailed settings, tap and hold a button. To rearrange buttons, tap → EDIT, tap and hold a button, and then drag it to another location.

S Finder
Search for a wide variety of content with a keyword.

Searching for content on the device
Open the notification panel and tap → S Finder.
Enter a keyword in the search field or tap and say a keyword.
To get more refined results, tap Filter under the search field, and then select filter details.

Setting search categories
You can set search categories to search for content in specific search fields.
Tap MORE → Select search locations and select categories.
Entering text

Keyboard layout

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

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

Enter uppercase. For all caps, tap it twice.

Enter punctuation marks.

Change the keyboard settings.

Delete a preceding character.

Break to the next line.

Enter a space.

Changing the input language

Tap → Add 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 ☰, select a language under Languages and types, and then select a keyboard layout to use.

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

- 🎤: Enter text by voice.

  ![Image of voice input settings]

  - Change the voice input settings.
  - Delete a preceding character.
  - Start or pause entering text by voice.

- 📝: Add an item from the clipboard.
- 😊: Enter emoticons.
- ⚙️: Change the keyboard settings.

Copying and pasting

1. Tap and hold over text.

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

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

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

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

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

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

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

Screen capture

Capture a screenshot while using the device.

Capturing screenshots

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

You can also capture screenshots by swiping your hand to the left or right across the screen. If this feature is not activated, open the Apps screen, tap Settings → Advanced features → Palm swipe to capture and tap the switch to activate it.

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

You can capture the current screen and scrollable area. You can also immediately crop and share the captured screen.

If this feature is not activated, open the Apps screen, tap **Settings** → **Advanced features** → **Smart capture**, tap the switch to activate it, and then capture a screenshot. On the screen you are capturing, use one of the following options:

- **Capture more**: Capture more content that continues across multiple screens, such as a web page. The screen will automatically scroll down and more content will be captured.
- **Share**: Share the screenshot.
- **Crop**: Crop a portion from the screenshot.

**Opening apps**

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

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

**Closing an app**

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

Introduction

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

Some apps may not support this feature.
Split screen view

1 Tap ☐ 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 Swipe to the left or right to select another app to launch.

You can also launch the split screen view by tapping and holding ☐.
Using additional options

When using apps in the split screen view, select an app window and tap the circle between the app windows to access the following options:

• •: Switch locations between app 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.
Basics

- 医科: Minimise the window.
- 医科: Maximise the window.
- 医科: Close the app.

Adjusting the window size

Drag the circle between the app windows up or down to adjust the size of the windows.

Pop-up view

1. On the Apps screen, launch an app to use in the pop-up view.
2. Drag down diagonally from either end of the top edge.
   The app screen will appear in the pop-up view.
Moving pop-up windows
To move a pop-up window, tap and hold the circle on a window and drag it to a new location.

Samsung account

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

Create your Samsung account with your email address.
To check the list of services that can be used with your Samsung account, visit account.samsung.com. For more information on Samsung accounts, open the Apps screen and tap Settings → 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 On the Apps screen, tap Settings → 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. On the Apps screen, tap Settings → Accounts → Add account.

2. Tap Samsung account.

3. Enter your email address and password, and then tap SIGN IN.
   If you forget your account information, tap Forgotten your ID or password? You can find your account information when you enter the required information and security code displayed that is on the screen.

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. On the Apps screen, tap Settings → Accounts.

2. Tap Samsung account and tap the account to remove.

3. Tap MORE → Remove account → REMOVE ACCOUNT.

4. Enter your Samsung account password and tap CONFIRM.

5. Tap REMOVE ACCOUNT.
Transferring data from your previous device

You can transfer data from a previous device to your device via Samsung Smart Switch. The following versions of Samsung Smart Switch are available.

- Mobile version: Transfer data between mobile devices. You can download the app from Galaxy Apps or Play Store.
- Computer version: Transfer data between your device and a computer. You can download the app from www.samsung.com/smartswitch.

⚠️ Samsung Smart Switch is not supported on some devices or computers.

⚠️ Limitations apply. Visit www.samsung.com/smartswitch for details. Samsung takes copyright seriously. Only transfer content that you own or have the right to transfer.

Transferring data from a mobile device

Transfer data from your previous device to your device.

1. On both devices, download and install Smart Switch from Galaxy Apps or Play Store.
2. Place the devices near each other.
3. Launch Smart Switch on both devices.
4 On your device, select the previous device type from the list and tap **START**.

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

**Transferring backup data from a computer**

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](http://www.samsung.com/smartswitch) to download Smart Switch.

2 On the computer, launch Smart Switch.

   If your previous device is not a Samsung device, back up data to a computer using a program provided by the device's manufacturer. Then, skip to the fifth step.

3 Connect your previous device to the computer using the USB cable.

4 On the computer, follow the on-screen instructions to back up data from the device. Then, disconnect your previous device from the computer.

5 Connect your device to the computer using the USB cable.

6 On the computer, follow the on-screen instructions to transfer data to your device.
Device and data management

Connecting the device to a computer for data transfer
Move audio, video, image, or other types of files from the device to the computer, or vice versa.

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

1. Connect the device to the computer using the USB cable.
2. Open the notification panel, and then tap Transfer media files via USB → Transferring media files.
   If the computer cannot recognise your device, tap Transferring images.
3. Tap ALLOW to permit the computer to access your device’s data.
   When the computer recognises your device, the device will appear in My PC.
4. Transfer files between your device and the computer.

Updating the device
The device can be updated to the latest software.

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

On the Apps screen, tap Settings → About device → Download updates manually.
- When you tap the Download update automatically switch to activate it, updates will be downloaded when the device is connected to a Wi-Fi network.
Updating with Smart Switch

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

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

2. On the computer, launch Smart Switch.

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

4. If a software update is available, follow the on-screen instructions to update the device.
   - Do not turn off the computer or disconnect the USB cable while the device is updating.
   - While updating the device, do not connect other media devices to the computer. Doing so may interfere with the update process. Before updating, disconnect all other media devices from the computer.

Backing up and restoring data

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

Using a Samsung account

On the Apps screen, tap Settings → Backup and reset → Back up my data for the Samsung account, tap the switches next to the items you want to back up to activate them, and then tap BACK UP NOW.

To set the device to automatically back up data, tap the Auto back up switch to activate it.

To restore data using a Samsung account, tap Restore. Current data will be deleted from the device to restore the selected items.
Using a Google account

On the Apps screen, tap Settings → Backup and reset → Back up my data for the Google account, and then tap the switch 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.

Performing a data reset

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

On the Apps screen, tap Settings → Backup and reset → Factory data reset → RESET DEVICE → ERASE EVERYTHING. The device automatically restarts.

Quick connect

Introduction

Quickly search for and connect with nearby devices, such as Bluetooth headsets or TVs, using the Quick connect feature.

- If the device you want to connect does not support the Quick connect feature, activate its Wi-Fi Direct or Bluetooth feature before launching Quick connect on your device.
- Connection methods may vary depending on the type of connected devices or the shared content.
Connecting to other devices

1. Open the notification panel and tap Quick connect.
   The Wi-Fi and Bluetooth features are activated automatically.

   If Quick connect is not visible on the notification panel, tap → EDIT and tap the
   Quick connect switch to activate it.

2. Tap Scan for nearby devices.
   If there is no previously connected device, the device will automatically search for nearby
devices.

3. Select a device from the list and connect to it by following the on-screen instructions.
   The next steps may vary depending on the connected device.

To change your device’s visibility setting, tap MORE → Set device visibility, and then select
an option.

Sharing content

Share content with the connected devices.

1. Open the notification panel and tap Quick connect.

2. Tap Scan for nearby devices.

3. Select a device from the list of detected devices.

4. Tap Share content and select a media category.

5. Follow the on-screen instructions to send content to the connected device.
   The next steps may vary depending on the selected media category.
Connecting to a TV

Connect your device and a TV to view the device’s content on the larger screen. You may be able to use more features depending on the connected TV.

1. Turn on the TV and place your device close to the TV.

2. Open the notification panel and tap Quick connect → Scan for nearby devices.

3. Select the TV.
   - The list of features you can use with the TV appears.

4. Select a feature and follow the on-screen instructions to use the feature.
   - Available features may vary depending on the TV.
     - **Smart View**: View your device’s content on the TV screen. You may need to activate the Screen Mirroring feature on the TV depending on the TV you want to connect. If the TV does not support the Screen Mirroring feature, use compatible accessories to enable the feature. Compatible accessories include HomeSync and an AllShare Cast dongle.
     - **TV to mobile device**: Watch TV on your device’s screen. You can continue watching TV within the allowed connection range.
     - **Control TV**: Use your device as a remote control for the TV.
     - **TV sound to mobile device**: Listen to the sound via the device’s speaker while watching the TV. You can connect a headset to the device so that others do not hear the TV sound.
     - **Briefing on TV**: Set the TV to turn on automatically according to the preset time set on your device and to display the time, weather, and your schedule information on the screen. To use this feature, your device and the TV must be connected to the same access point.
• **Register TV / Deregister TV**: Register the TV to your device to use additional features, such as **Control TV** and **Briefing on TV**.

- Some files may be buffered during playback, depending on the connection.
- If the TV does not support High-bandwidth Digital Content Protection (HDCP), you cannot view Digital Rights Management (DRM)-protected content on the TV.

**Streaming content on the registered TV**

If you register a TV to your device, you can more easily connect to the TV while playing content.

When your device recognises the registered TV while you are watching content, the icon will appear on the device. Tap the icon to stream the content from your device to your TV.

- This feature is supported only by the device’s default gallery app.
- When the registered TV is connected to an electric socket, you can use this feature even if the TV screen is turned off.

**Sharing features**

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

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

1. Tap **Gallery** on the Apps screen.

2. Select an image.
3 Tap **Share** and select a sharing method, such as Bluetooth and email.

You can also use the following options:

- **Simple sharing**: Share content with your contacts. To use this feature, your phone number must be verified.

  - This feature may not be available depending on the region or service provider.
  - If the recipients have not verified their phone numbers or if their devices do not support the feature, a link to the files will be sent to them via text message. The link will expire after a certain period.

- **Smart View**: View your device’s displayed content on a larger screen via a wireless connection.

- **Nearby sharing**: Share content with nearby devices via Wi-Fi Direct, Bluetooth, and more.

- **Print**: Print content using the printer plug-ins installed on the device.

4 Follow the on-screen instructions to share the image with others.

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

Emergency mode changes the screen to grey tones to reduce battery consumption. Some apps and functions will be restricted. In emergency mode, you can make an emergency call, send your current location information to others, sound an emergency alarm, and more.

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

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

Deactivating emergency mode

To deactivate emergency mode, tap **MORE → Disable Emergency mode**. Alternatively, press and hold the Power key, and then tap **Emergency mode**.
Applications

Installing or uninstalling apps

Galaxy Apps
Purchase and download apps. You can download apps that are specialised for Samsung Galaxy devices.
Tap Samsung → Galaxy Apps on the Apps screen.
This app may not be available depending on the region or service provider.

Installing apps
Browse apps by category or tap SEARCH 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 MORE → Settings → Auto update apps, and then select an option.

Play Store
Purchase and download apps.
Tap Play Store on the Apps screen.

Installing apps
Browse apps by category or search for apps by keyword.
Select an app to view information about it. To download free apps, tap INSTALL. To purchase and download apps where charges apply, tap the price and follow the on-screen instructions.
To change the auto update settings, tap → Settings → Auto-update apps, and then select an option.
Managing apps

Uninstalling or disabling apps
On the Apps screen, tap EDIT. The icon appears on the apps that you can disable or uninstall. Select an app and tap DISABLE or OK. Alternatively, on the Apps screen, tap Settings → Applications → Application manager, select an app, and then tap DISABLE or UNINSTALL.

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

Enabling apps
On the Apps screen, tap Settings → Applications → Application manager → 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, open the Apps screen and tap Settings → Applications → Application manager. 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, tap Settings → Privacy and safety → App permissions. Select an item and tap the switches next to apps to grant permissions.

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

Introduction
Make or answer voice and video calls.

Making calls

1. Tap Phone on the Apps screen.

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

3. Tap or to make a voice call, or tap to make a video call.

Add the number to the contacts list.
Preview the phone number.
Delete a preceding character.
Access additional options.
Hide the keypad.
Applications

Using speed dial

Set speed dial numbers to quickly make calls.

To set a number to speed dial, tap MORE → Speed dial, select a speed dial number, and then select a contact.

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

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

Making calls from the locked screen

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

Making calls from call logs or contacts list

Tap LOG or CONTACTS, and then swipe to the right on a contact or a phone number to make a call.

Making an international call

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

2 Tap and hold 0 until the + sign appears.

3 Enter the country code, area code, and phone number, and then tap ☎️ or 📞.

Receiving calls

Answering a call

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

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

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

To create various rejection messages, open the Apps screen, tap Phone → MORE → 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, on the Apps screen, tap Phone → LOG to view missed calls.

Blocking phone numbers

Block calls from specific numbers added to your block list.

1. On the Apps screen, tap Phone → MORE → Settings → Block numbers.

2. Tap LOG or CONTACTS to select contacts and tap +.

To manually enter a number, tap Enter phone number, and then enter a phone number.

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 anonymous calls switch to activate the feature.

Options during calls

During a voice call

The following actions are available:

- HOLD: Hold a call. Tap RESUME CALL to retrieve the held call.
- Add call: Dial a second call.
- Extra volume: Increase the volume.
- Bluetooth: Switch to a Bluetooth headset if it is connected to the device.
• **Speaker**: Activate or deactivate the speakerphone. When using the speakerphone, speak into the microphone at the top of the device and keep the device away from your ears.
• **Keypad / Hide**: Open or close the keypad.
• **Mute**: Turn off the microphone so that the other party cannot hear you.
• **Email**: Send an email.
• **Message**: Send a message.
• **Internet**: Browse webpages.
• **Contacts**: Open the contacts list.
• **S Planner**: Open the calendar.
• **Memo**: Create a memo.
• ****: End the current call.

### During a video call
Tap the screen to use the following options:
• **MORE**: Access additional options.
• **Switch**: Switch between the front and rear cameras.
• ****: End the current call.
• **Mute**: Turn off the microphone so that the other party cannot hear you.

### Contacts

#### Introduction
Create new contacts or manage contacts on the device.

#### Adding contacts

**Creating contacts manually**

1. Tap **Contacts** on the Apps screen.
2. Tap and select a storage location.
3 Enter contact information.
   • 📷: Add an image.
   • 🔍/+/−: Add or delete a contact field.

4 Tap SAVE.

To add a phone number to the contacts list from the keypad, open the Apps screen and tap Phone. If the keypad does not appear on the screen, tap ☰ to open the keypad. Enter the number and tap Add to Contacts.

To add a phone number to the contacts list from received calls, open the Apps screen and tap Phone → LOG → a contact.

Importing contacts

Import contacts from storage services to your device.

On the Apps screen, tap Contacts → MORE → Settings → Import/Export contacts → IMPORT and select an import option.

Searching for contacts

On the Apps screen, tap Contacts.

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.

Once a contact is selected, take one of the following actions:
   • ★: Add to favourite contacts.
   • 📞/Video call: Make a voice or video call.
   • 📩: Compose a message.
   • ☐: Compose an email.
Sharing profile

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

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

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

To set additional items to share, tap Shared profile info and select items.

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

Sharing contacts

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

1. Tap Contacts on the Apps screen.
2. Tap MORE → Share.
3. Tick contacts and tap SHARE.
4. Select a sharing method.
Messages

Introduction
Send and view messages by conversation.

Sending messages

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

1. Tap **Messages** on the Apps screen.

2. Tap 📩.

3. Add recipients and enter a message.

4. Tap 📩 or ✉️ to send the message.
Viewing messages
Messages are grouped into message threads by contact.

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

1 Tap Messages on the Apps screen.
2 On the messages list, select a contact.
3 View your conversation.

Blocking unwanted messages
Block messages from specific numbers or messages that contain phrases added to your block list.

1 Tap Messages on the Apps screen.
2 Tap MORE → Settings → Block messages.
3 Tap Block list.
   To add phrases to block, tap Blocked phrases.
4 Tap INBOX or CONTACTS to select contacts and tap +.
   To manually enter a number, tap Enter number, and then enter a phone number.

When you receive messages from the blocked numbers or messages including blocked phrases, you will not be notified. To view blocked messages, tap MORE → Settings → Block messages → Blocked messages.
Setting the message notification

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

1 Tap Messages on the Apps screen.

2 Tap MORE → Settings → Notifications, and then tap the switch to activate it.

3 Change the notification settings.
   • Notification sound: Change the notification sound.
   • Vibrate: Set the device to vibrate when you receive messages.
   • Pop-up display: Set the device to display messages in pop-up windows.
   • Preview message: Set the device to display message content on the locked screen and in pop-up windows.

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, open the Apps screen, tap Settings → 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 Tap Samsung → Internet on the Apps screen.

2 Tap the address field.
Enter the web address or a keyword, and then tap **Go**.

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

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**Using secret mode**

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

**Activating secret mode**

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

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

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

You can change your password or the lock method.

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

Deactivating secret mode

In the toolbar at the bottom of the screen, tap Tabs → DISABLE SECRET. Alternatively, close the Internet app.

Email

Setting up email accounts

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

1 Tap Samsung → Email on the Apps screen.

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

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

To set up another email account, tap MORE → Settings → Add account.

If you have more than one email account, you can set one as the default account. Tap MORE → Settings → MORE → 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 MORE → Settings → 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.

Basic shooting

You can take photos or record videos. View your photos and videos in Gallery.
Tap Camera on the Apps screen.

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.
Taking photos or recording videos

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

2. Tap 📸 to take a photo or tap 🎥 to record a video. To take a series of photos, tap and hold 📸.
   - Spread two fingers apart on the screen to zoom in, and pinch to zoom out.
   - To adjust the brightness of photos or videos, tap the screen. When the adjustment bar appears, drag the adjustment bar towards 🔺 or 🔻.
   - To capture an image from the video while recording, tap Capture.
   - To change the focus while recording a video, tap where you want to focus. To focus on the centre of the screen, tap 🎥.

On the preview screen, swipe to the right to access the list of shooting modes. Or, swipe to the left to view photos and videos you have captured.

- 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 clean. Otherwise, the device may not work properly in some modes that require high resolutions.
- The front camera features a wide-angle lens. Minor distortion may occur in wide-angle photos and does not indicate device performance problems.
- The maximum recording time may reduce when you record video at high resolution.
Launching Camera on the locked screen

To quickly take photos, launch Camera on the locked screen. On the locked screen, drag ☑ outside the large circle.

- This feature may not be available depending on the region or service provider.
- Some camera features are not available when you launch Camera from the locked screen while the security features are activated.

Launching Camera quickly

Press the Home key twice quickly to launch Camera. Camera always launches in auto mode.

Some camera features are not available when you launch Camera from the locked screen or when the screen is turned off while the security features are activated.

Locking the focus and exposure

Strong light/dark contrast and the subject being outside the auto focus area may make it difficult to achieve an appropriate exposure. Lock the focus or exposure and then take a photo. Tap and hold the area to focus, the AF/AE frame will appear on the area and the focus and exposure setting will be locked. The setting remains locked even after you take a photo.

This feature is only available in some shooting modes.

Customising shooting modes

On the preview screen, tap MODE and select a mode.
To view information for each mode, tap Info.
To rearrange modes, tap and hold a mode icon, and then drag it to a new location.

Auto mode

Auto mode allows the camera to evaluate the surroundings and determine the ideal mode for the photo.
On the preview screen, tap MODE → Auto.
**Pro mode**

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

On the preview screen, tap **MODE → Pro**. Select options and customise the settings, and then tap 📷 to take a photo.

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

- **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.

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

**Panorama**

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

On the preview screen, tap **MODE → Panorama**.

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.

- When taking motion panoramas, sound will not be recorded.

**Continuous shot**

Take a series of photos of moving subjects.

On the preview screen, tap **MODE → Continuous shot**.

Tap and hold 📷 to take several photos continuously.
HDR (Rich tone)
Take photos with rich colours and reproduce details even in bright and dark areas. On the preview screen, tap MODE → HDR (Rich tone).

Without effect

With effect

Night
Take a photo in low-light conditions, without using the flash. On the preview screen, tap MODE → Night.

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

1 On the preview screen, tap \( \text{ } \) to switch to the front camera for self-portraits.

2 Tap MODE → Selfie.
Applications

3 Face the front camera lens.

4 When the device detects your face, tap 📸 to take a photo of yourself. You can also tap the screen to take a photo.

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

To take a photo using your palm, tap 🖼 and tap the Gesture control switch to activate it.

Applying beauty effects

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

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.

- 🌟: Make your skin appear brighter and clearer.
- 🌟: Adjust the face shape and make your face appear slimmer.
- 🌟: Make your eyes appear bigger.

Wide selfie

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

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

2 Tap MODE → Wide selfie.

3 Face the front camera lens.
4 When the device detects your face, tap 📸 to take a photo of yourself. You can also tap the screen to take a photo.

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

To take a photo using your palm, tap ⬇️ and tap the Gesture control switch to activate it.

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.
Applications

Downloading modes

Download more shooting modes from Galaxy Apps.
On the preview screen, tap MODE → Download.

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

Camera settings

Quick settings

On the preview screen, use the following quick settings.

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

- ☀: Select a filter effect to use when taking photos or recording videos. To download more effects, tap Download.
- ⏰: 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.
- 🕗: Select the length of the delay before the camera automatically takes a photo.
- ☀️: Activate or deactivate the flash.
- 16:9 / 4:3: Select a resolution for photos. Using a higher resolution will result in higher quality photos, but they will take up more memory.

The resolution of a photo may be affected by lighting conditions when taking photos with the front camera.
Camera settings

On the preview screen, tap 📸. The available options may vary depending on the shooting mode and which camera is being used.

- **Video size (rear) / Video size (front):** Select a resolution for videos. Using a higher resolution will result in higher quality videos, but they will take up more memory.
- **Gesture control:** Set the device to detect your palm, so you can use it to take self-portraits.
- **Save pictures as previewed:** Invert the image to create a mirror-image of the original scene, when taking photos with the front camera.
- **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.
- **Voice control:** Set the device to take photos or record videos with voice commands. You can say “Smile”, “Cheese”, “Capture”, or “Shoot” to take a photo. To record a video, say “Record video.”
- **Storage location:** Select the memory location for storage.
- **Volume keys function:** Set the device to use the Volume key to control the shutter or zoom function.
- **Reset settings:** Reset the camera settings.
Introduction
View and manage photos and videos stored in the device.

Viewing images
1. Tap Gallery on the Apps screen.
2. Select an image.

Move to the previous screen.
Access additional options.
Add the image to favourites.
Share the image with others.
Modify the image.
Automatically adjust the image.
Delete the image.

To hide or show the menus, tap the screen.
Viewing videos

1. Tap Gallery on the Apps screen.

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

- Display your videos.
- Access additional options.
- Change screen ratio.
- Rewind or fast-forward by dragging the bar.
- Pause and resume playback.
- Adjust the volume.
- Switch to the pop-up video player.
- Skip to the next video. Tap and hold to fast-forward.
- Skip to the previous video. Tap and hold to rewind.

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.

Deleting images or videos

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

Deleting multiple images and videos

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

2. Tick the images or videos to delete.

3. Tap DELETE.
Sharing images or videos

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

Sharing event albums

View photos and videos by time and location. You can share event albums with your contacts.

1 On the main Gallery screen, tap → Events.
   You can view photos and videos sorted by event.
   To manually create event albums, tap and select photos or videos to add.

2 Select an event album to share.

3 Tap and select contacts.
   When your contacts accept the share request, the event album will be shared and more photos and videos can be added to the event album by your contacts.

- To use this feature, your phone number must be verified.
- You may incur additional charges when sharing files via the mobile network.
- If the recipients have not verified their phone numbers or if their devices do not support the feature, a link to the files will be sent to them via text message. Link recipients may not be able to use some features. The link will expire after a certain period.
**S Planner**

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

**Creating events**

1. Tap **S Planner** on the Apps screen.

2. Tap + or double-tap a date.
   If the date already has saved events or tasks in it, tap the date and tap +.

3. Enter event details.

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

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

1. Tap S Planner on the Apps screen.
2. Tap → Tasks.
3. Enter task details and tap TODAY or TOMORROW to set a due date.
   To add more details, tap ☑.
4. Tap SAVE to save the task.

Syncing events and tasks with your accounts

On the Apps screen, tap Settings → Accounts, select an account service, and then tap the Sync Calendar switch to sync events and tasks with the account.

To add accounts to sync with, open the Apps screen and tap S Planner → MORE → Manage calendars → Add account. Then, select an account to sync with and sign in. When an account is added, it will appear on the list.

S Health

Introduction

S Health helps you manage your wellness and fitness. Set fitness goals, check your progress, and keep track of your overall wellness and fitness.

Starting S Health

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

1. Tap Samsung → S Health on the Apps screen.
2. Follow the on-screen instructions to complete the setup.
Using S Health

You can view the key information from S Health menus and trackers to monitor your wellness and fitness.

Tap **Samsung → S Health** on the Apps screen.

To add trackers, goals, or programmes to the S Health screen, tap **MORE → Manage items**, and then select items under the **TRACKERS**, **GOALS**, or **PROGRAMMES** tab.

- **GOALS**: Set your daily fitness goals and view your progress.
- **PROGRAMMES**: Use customisable exercise programmes.
- **TRACKERS**: Monitor your activities, food intake, and body measurements.

To access more information about S Health functions, tap **MORE → Settings → Help.**
Additional information

- S Health is intended for fitness and wellness purposes only and is not intended for use in the diagnosis of disease or other conditions, or in the cure, mitigation, treatment, or prevention of disease.
- The available functions, features and addable applications for S Health may vary from country to country due to different local laws and regulations. You should check the features and applications available in your specific region before use.
- S Health applications and its service can be changed or discontinued without prior notice.
- The purpose for data collection is limited to providing the service that you have requested, including providing additional information to enhance your wellness, sync data, data analysis and statistics or to develop and provide better services. (But if you sign in to your Samsung account from S Health, your data may be saved on the server for data backup purposes.) Personal information may be stored until the completion of such purposes. You can delete personal data stored by S Health by using the Reset data option in the Settings menu. To delete any data you have shared with social networks or transferred to storage devices, you must delete them separately.
- You may share and/or sync your data with additional Samsung services or compatible third party services that you select, as well as with any of your other connected devices. Access to S Health information by such additional services or third party devices will only be permitted with your express approval.
- You assume full responsibility for the inappropriate use of data shared on social networks or transmitted to others. Use caution when sharing your personal data with others.
- If the device is connected to measuring devices, verify the communication protocol to confirm proper operation. If you use a wireless connection, such as Bluetooth, the device may be affected by electronic interference from other devices. Avoid using the device near other devices that transmit radio waves.
- Please read Terms and Conditions and Privacy Policy of S Health carefully before using it.
**S Voice**

**Introduction**
Perform various tasks simply by speaking.

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

**Using S Voice**

1 Say the preset wake-up command.
   Alternatively, on the Apps screen, tap **S Voice**.
   When **S Voice** is launched, the device begins voice recognition.

This app may not be available depending on the region or service provider.
2 Say a voice command.
   If the device recognises the command, the device will perform the corresponding action. To repeat a voice command or say a different command, tap or say the preset wake-up command.

This app will close automatically if the device is not used for a specified period.

**Tips for better voice recognition**

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

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

**Setting the language**

On the Apps screen, tap S Voice →  → Language, and then select a language.

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

Introduction
Use different recording modes for various situations. The device can convert your voice to text.

Making voice recordings


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

3. Tap SAVE to finish recording.
Changing the recording mode

On the Apps screen, tap Samsung → Voice Recorder.
Select a mode from the top of the voice recorder screen.

- **STANDARD**: This is the normal recording mode.
- **VOICE MEMO**: The device records your voice and simultaneously converts it to on-screen text. For best results, keep the device near your mouth and speak loudly and clearly in a quiet place.

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

My Files

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

On the Apps screen, tap Samsung → My Files.
View files by category or view files stored in the device or a cloud storage service.
To check the status of used and available memory, tap STORAGE USAGE.
To search for files or folders, tap SEARCH.

Memo

Create memos and organise them by category.

On the Apps screen, tap Memo.

Composing memos

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

- **Category**: Create or set a category.
- **Tasks**: Add tick boxes at the beginning of each row to create a list of tasks.
Applications

- **Image**: Insert images.
- **Drawing**: Write or draw memos to insert. You can select pen thickness and colour.
- **Voice**: Make a voice recording to insert.

To save the memo, tap **SAVE**.

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

**Searching for memos**

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

**Clock**

**Introduction**

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

**Alarm**

On the Apps screen, tap **Clock** → **Alarm**.

**Setting alarms**

Set an alarm time and tap **SAVE**.

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

To set an alarm with various alarm options, tap **OPTIONS**, set alarm options, and then tap **SAVE**.

To activate or deactivate alarms, tap the clock icon 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 on an alarm in the list of alarms.

World clock
On the Apps screen, tap Clock → World clock.

Creating clocks
Enter a city name or select a city from the globe, and then tap .

Deleting clocks
Tap on a clock.

Stopwatch
1 On the Apps screen, tap Clock → 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 On the Apps screen, tap Clock → 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.
Applications

**Calculator**

Perform simple or complex calculations.
Tap **Calculator** on the Apps screen.
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**.

**Google apps**

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

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

**Chrome**

Search for information and browse webpages.

**Gmail**

Send or receive emails via the Google Mail service.

**Maps**

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

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
Download videos to watch from Play Store.

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

YouTube
Watch or create videos and share them with others.

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

Hangouts
Chat with your friends individually or in groups and use images, emoticons, and video calls while you are chatting.

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

Introduction

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

On the Apps screen, tap Settings.

To search for settings by entering keywords, tap SEARCH.

To edit the list of frequently used settings, tap EDIT. Then, tick items to add or deselect items to remove.

Wi-Fi

Connecting to a Wi-Fi network

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

- Your device uses a non-harmonised frequency and is intended for use in all European countries. The WLAN can be operated in the EU without restriction indoors, but cannot be operated outdoors.
- Turn off Wi-Fi to save the battery when not in use.

1. On the Settings screen, tap 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.
3 Tap CONNECT.

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

**Wi-Fi Direct**

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

1 On the Settings screen, tap 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 connections 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 Tap Gallery on the Apps screen.

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

4 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 Tap Wi-Fi on the Settings screen.

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

3 Tap the device name to disconnect the devices.

Bluetooth

Introduction

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 **Bluetooth**, and then tap the switch to activate it.
   The detected devices are listed.

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

   ![Bell icon] 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. Tap **Gallery** on the Apps screen.

2. Select an image.

3. Tap **Share → 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.

4. Accept the Bluetooth connection request on the other device.
Unpairing Bluetooth devices

1. Tap Bluetooth on the Settings screen. The device displays the paired devices in the list.

2. Tap ⌁ next to the device name to unpair.

3. Tap Unpair.

Flight mode

This disables all wireless functions on your device. You can use only non-network services. On the Settings screen, tap Flight mode.

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.

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 Mobile hotspot and tethering.

You may incur additional charges when using this feature.

- **Mobile hotspot**: Use the mobile hotspot to share the device’s mobile data connection with computers or other devices.

- **Bluetooth tethering**: Use Bluetooth tethering to share the device’s mobile data connection with computers or other devices via Bluetooth.

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

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

1. On the Settings screen, tap **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 **MORE → 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.

Data usage

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

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

- **Mobile data**: Set the device to use data connections on any mobile network.
- **Background data**: Prevent apps that are running in the background from using a mobile data connection.
- **Set mobile data limit**: Set a limit for mobile data usage.
- **Ultra data saving mode**: Reduce your mobile data usage by preventing background apps from using the mobile data connection. You can use the data compression feature to compress Internet data, such as images, videos, and webpages, accessed via the mobile network. Refer to **Ultra data saving** for more information.
- **Data usage reminder**: Set the device to notify you of your data usage while the device is locked. You will receive a notification after the device has been locked for more than 5 minutes.

To change the monthly reset date for the monitoring period, tap **→ Change cycle**.
Limiting data usage

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

1. On the Settings screen, tap Data usage and tap the Set mobile data limit switch to activate it.

2. Drag the limit adjustment bar upwards or downwards to set the limit.

3. Drag the warning adjustment bar upwards or downwards to set a data usage alert level. The device will alert you when the warning level is reached.

SIM card manager

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

On the Settings screen, tap SIM card manager.

- **Calls**: Select a SIM or USIM card for voice calls.
- **Text messages**: Select a SIM or USIM for messaging.
- **Mobile data**: Select a SIM or USIM card for data service.
- **Dual SIM always on**: Set the device to allow incoming calls from the other SIM or USIM card during a call.

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

Configure your mobile network settings.

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

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

NFC and payment

**Introduction**

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

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

**Using the NFC feature**

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

1. On the Settings screen, tap **NFC and payment**, and then tap the switch to activate it.
2 Place the NFC antenna area on the back of your device near an NFC tag. The information from the tag appears.

Ensure that the device's screen is unlocked. Otherwise, the device will not read NFC tags or receive data.

Making payments with the NFC feature

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

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

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

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

The payment services list may not include all available payment apps.
Sending data

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

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

2. Tap **Android Beam** and tap the switch to activate it.

3. Select an item and touch the other device’s NFC antenna to your device’s NFC antenna.

4. When **Touch to beam**. appears on the screen, tap your device’s screen to send the item.

⚠️ If both devices try to send data simultaneously, the file transfer may fail.
More connection settings

Options

Customise settings to control other features.

On the Settings screen, tap More connection settings.

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

To add printers manually, tap MORE → Add printer → ADD PRINTER.
To change print settings, tap MORE → Printing settings.

**Printing content**
While viewing content, such as images or documents, tap Share → Print → All printers, and then select a printer.

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

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

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

**Connecting your device to a vehicle via MirrorLink**
When using this feature for the first time, connect the device to a Wi-Fi or mobile network.

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

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

Unplug the USB cable from your device and the vehicle.

Download booster

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

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

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

Introduction

The Smart manager provides an overview of the status of your device’s battery, storage, RAM, and system security. The Smart manager allows you to easily optimise your device and ultra data saving mode helps you manage your mobile data usage.

Using the quick optimisation feature

On the Settings screen, tap Smart Manager → CLEAN ALL.

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

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

On the Settings screen, tap Smart Manager → 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.

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

Managing the battery

To save battery power by setting whether to optimise the battery usage for each app, tap DETAILS for the app power saving and tap the App power saving switch to activate it.

Storage

Check the status of the used and available memory.

On the Settings screen, tap Smart Manager → Storage.

Managing the memory

To delete residual files, such as cache, tap DELETE. To delete files or uninstall apps that you do not use any more, tap DETAILS for the user data and select a category. Then, tick items to select and tap DELETE.

RAM

On the Settings screen, tap Smart Manager → RAM.

To speed up your device by reducing the amount of RAM you are using, tap END ALL to close all background apps.

Device security

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

On the Settings screen, tap Smart Manager → Device security.
Ultra data saving

Monitor and reduce your mobile data usage by preventing background apps from using the mobile data connection. You can also use the data compression feature to compress Internet data, such as images, videos, and webpages, accessed via the mobile network.

- This feature may not be available depending on the region or service provider.
- Some webpages or content may not be available when this feature is activated, depending on the service provider or the mobile network conditions.

1. On the Settings screen, Smart Manager.

2. Swipe to the left, tap Ultra data saving, and then tap the switch to activate it.

Activate the Opera Max data compression feature to compress Internet data when using the mobile network.

View the amount of data used and saved for the set monitoring period.

Select apps that are allowed to use the mobile data connection in the background.

You can change the data usage monitoring period. On the Apps screen, tap Settings → Data usage → Change cycle.
Applications

Manage the device’s apps and change their settings.

On the Settings screen, tap Applications.

- **Application manager**: View and manage the apps on your device.
- **Default applications**: Select a default setting for using apps.
- **Application settings**: Customise the settings for each app.

Sounds and vibrations

Change settings for various sounds on the device.

On the Settings screen, tap Sounds and vibrations.

- **Sound mode**: Set the device to use sound mode or silent mode.
- **Vibrate while ringing**: Set the device to vibrate and play a ringtone for incoming calls.
- **Volume**: Adjust the volume level for call ringtones, music and videos, system sounds, and notifications.
- **Vibration intensity**: Adjust the force of the vibration notification.
- **Ringtone**: Change the ringtone settings.
- **Vibration pattern**: Select a vibration pattern.
- **Notification sounds**: Select a default notification sound. You can also change the notification settings for each app.
- **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 sounds**: Set the device to sound when it is connected to a charger.
- **Vibration feedback**: Set the device to vibrate when you tap or and for other actions, such as tapping and holding items.
- **Dialling keypad tones**: Set the device to sound when you tap the buttons on the keypad.
• **Keyboard sound**: Set the device to sound when a key is touched.
• **Keyboard vibration**: Set the device to vibrate when a key is touched.
• **Sound quality and effects**: Configure additional sound settings.

**Notifications**

Change the notification settings for each app.

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

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

• **Allow notifications**: Allow notifications from the selected app.
• **Set as priority**: Display notifications at the top of the notification panel and include them in the allowed list when **Do not disturb** is activated.
• **Previews in pop-ups**: Display notification previews in pop-up windows.
• **Show on lock screen**: Hide notifications from the selected app when the device is locked.
• **Show content on lock screen**: Hide the content of notifications from the selected app when the device is locked.
• **More settings**: Customise additional notification settings for the selected app.

**Do not disturb**

Set the device to mute incoming calls and notification sounds, except for allowed exceptions.

On the Settings screen, tap **Do not disturb**.

• **Enable now**: Activate Do not disturb mode immediately.
• **Enable as scheduled**: Activate Do not disturb mode at preset times. You can select days and set the start and end times.
• **Allow exceptions**: Customise the settings for allowed exceptions.
Display

Change the display settings.

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

- **Brightness**: Adjust the brightness of the display.
- **Font**: Change the font size and type.
- **Icon frames**: Set whether to display shaded backgrounds to make icons stand out.
- **Screen timeout**: Set the length of time the device waits before turning off the display’s backlight.
- **Smart stay**: Set the device to prevent the display backlight from turning off while you are looking at the display.
- **Screen mode**: Change the screen mode to adjust the display’s colour and contrast.
- **Screensaver**: Set the device to launch a screensaver when the device is charging or connected to a dock.

Advanced features

Activate advanced features and change the settings that control them.

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

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

- **One-handed operation**: 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.
- **Pop-up view gesture**: Set the device to view the app screen in the pop-up view. Refer to **Pop-up view** for more information.
• **Smart capture**: Set the device to capture content that continues across multiple screens, and crop and share the screenshot immediately. Refer to Smart capture for more information.

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

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

• **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 using palm motions or facing the device's screen downwards.

### Wallpaper

Change the wallpaper settings for the Home screen and the locked screen.

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

### Themes

Apply various themes to the device to change the visual elements of the Home screen, locked screen, and icons.

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

To download more themes, tap **MORE THEMES**.
Home screen

Customise the Home screen by adding, deleting, or rearranging Home screen panels, and more. Refer to Home screen options for more information.

On the Settings screen, tap Home screen.

Lock screen and security

Options

Change the settings for securing the device and the SIM or USIM card.

On the Settings screen, tap Lock screen and security.

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

- **Screen lock type**: Change the screen lock method.
- **Info and app shortcuts**: Change settings for the items displayed on the locked screen.
- **Notifications on lock screen**: Set whether or not to show notification content on the locked screen and select which notifications to display.
- **Secure lock settings**: Change screen lock settings for the selected lock method.
- **Fingerprints**: Register your fingerprint to the device to secure the device or sign in to your Samsung account. Refer to Fingerprint recognition for more information.
- **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.
- **Unknown sources**: Set the device to allow the installation of apps from unknown sources.
• **Secure startup**: Your device’s data is encrypted to prevent others from accessing it if the device is lost or stolen. To use your encrypted device, you must decrypt the device’s data every time you turn on the device. You can set whether your device’s data will be decrypted automatically or whether an unlock code is required. It is not possible to back up or restore data when it is encrypted. If you enter the unlock code incorrectly several times in a row and reach the attempt limit, your device will perform a factory data reset.

• **Encrypt SD card**: Set the device to encrypt files on a memory card.

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

• **Other security settings**: Configure additional security settings.

**Fingerprint recognition**

In order for fingerprint recognition to function, your fingerprint information needs to be registered and stored in your device. After registering, you can set the device to use your fingerprint for the features below:

• Screen lock
• Web sign-in
• Verify Samsung account

  • This feature may not be available depending on the region or service provider.
  • Fingerprint recognition uses the unique characteristics of each fingerprint to enhance the security of your device. The likelihood of the fingerprint sensor confusing two different fingerprints is very low. However, in rare cases where separate fingerprints are very similar the sensor may recognise them as identical.
  • If you use your fingerprint as a screen lock method, your fingerprint cannot be used to unlock the screen after restarting the device. You must unlock the device using a pattern, PIN, or password you set when registering the fingerprint.
  • If your fingerprint is not recognised, you must take the device to a Samsung Service Centre to have it reset. Then, you must re-register your fingerprints.
Settings

For better fingerprint recognition

When you scan your fingerprints on the device, be aware of the following conditions that may affect the feature’s performance:

- The Home key contains a fingerprint recognition sensor. Ensure that the Home key is not scratched or damaged by metal objects, such as coins, keys, and necklaces.
- The screen protector supplied with the device may cause the fingerprint recognition sensor to malfunction. Remove the screen protector to improve fingerprint sensitivity.
- Ensure that the fingerprint recognition area and your fingers are clean and dry.
- The device may not recognise fingerprints that are affected by wrinkles or scars.
- The device may not recognise fingerprints from small or thin fingers.
- If you bend your finger or use a fingertip, the device may not recognise your fingerprints. Make sure to cover the entire Home key with your finger.
- To improve recognition performance, register fingerprints of the hand used most often to perform tasks on the device.
- In dry environments, static electricity can build up in the device. Avoid using this feature in dry environments or before using the feature, discharge static electricity by touching a metal object.

Registering fingerprints

1. On the Settings screen, tap Lock screen and security → Fingerprints.
2. Unlock the screen using the preset screen lock method.
   If you have not set a screen lock method, create one.
3. Place your finger on the Home key.
4. After the device detects your finger, lift it up and place it on the Home key again.
   Repeat this action by moving your finger upwards or downwards until the fingerprint is registered.
   When a fingerprint lock pop-up window appears, tap ENABLE to use your fingerprint to unlock the screen.
Deleting fingerprints
You can delete registered fingerprints.

1. On the Settings screen, tap Lock screen and security → Fingerprints.
2. Unlock the screen using the preset screen lock method.
3. Tap EDIT.
4. Tick fingerprints to delete and tap REMOVE.

Verifying the Samsung account password
Use fingerprints to verify your Samsung account password. You can use a fingerprint instead of entering your password, for example, when you purchase content from Galaxy Apps.

1. On the Settings screen, tap Lock screen and security → Fingerprints.
2. Unlock the screen using the preset screen lock method.
3. Tap the Verify Samsung account switch to activate it.
4. Sign in to your Samsung account.
Using fingerprints to sign in to accounts

You can use your fingerprints to sign in to webpages that support password saving.

This feature is only available for webpages that you access via the Internet app.

1. On the Settings screen, tap Lock screen and security → Fingerprints.
2. Unlock the screen using the preset screen lock method.
3. Tap the Web sign-in switch to activate it.
4. Open a webpage that you want to sign in to with a fingerprint.
5. Enter your user name and password, and then tap the webpage’s sign in button.
6. Tick Sign in using your fingerprints and tap REMEMBER.

You can use your fingerprint to verify your account and password to sign in to the webpage.

Unlocking the screen with fingerprints

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

1. On the Settings screen, tap Lock screen and security → Fingerprints.
2. Unlock the screen using the preset screen lock method.
3. Tap the Fingerprint unlock switch to activate it.
4. On the locked screen, place your finger on the Home key and scan your fingerprint.
Privacy and safety

Options
Change the settings for maintaining your privacy and safety.

On the Settings screen, tap Privacy and safety.

- **Location**: Change settings for location information permissions.
- **App permissions**: View the list of features and apps that have permission to use them. You can also edit the permission settings. Refer to Setting app permissions for more information.
- **Report diagnostic info**: Set the device to automatically send the device’s diagnostic and usage information to Samsung.
- **Send SOS messages**: Set the device to send help messages by pressing the Power key three times. You can also send sound recordings along with the message to the recipients. Refer to Send SOS messages for more information.

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

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

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

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

The Attach pictures option may not be available depending on the region or service provider.
Adding emergency contacts
On the Settings screen, tap Privacy and safety → Send SOS messages → Send messages to → ADD. Tap Create contact and enter contact information or tap Select from contacts to add an existing contact as an emergency contact.

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

Some app features may not be available in easy mode.

Switching to easy mode
1. On the Settings screen, tap Easy mode → Easy mode.
2. Select apps under Easy applications to apply a simpler layout.
3. Tap DONE.

Returning to standard mode
Swipe to the left on the Home screen and tap Settings → Easy mode → Standard mode → DONE.

Managing shortcuts
To add a shortcut to an app to the Home screen, swipe to the left, tap +, and then select an app.
To add a shortcut to a contact on the Home screen, swipe to the right and tap 📚.
To delete a shortcut from the Home screen, tap EDIT and select an app or contact with ⌠.
Accessibility

Configure various settings to improve accessibility to the device.

On the Settings screen, tap Accessibility.

- **Vision**: Customise the settings to improve accessibility for visually impaired users.
- **Hearing**: Customise the settings to improve accessibility for users with hearing impairment.
- **Dexterity and interaction**: Customise the settings to improve accessibility for users who have reduced dexterity.
- **Direction lock**: Change the directional combination settings for unlocking the screen.
- **Direct access**: Set the device to open selected accessibility menus when you press the Home key three times quickly.
- **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.
- **Manage accessibility**: Export or import the accessibility settings to share them with other devices.
- **Services**: View accessibility services installed on the device.

Accounts

Add your Samsung and Google accounts, or other accounts, to sync with.

Adding accounts

Some apps used on your device require a registered account. Create accounts to have the best experience with your device.

1. On the Settings screen, tap Accounts → Add account.
2. Select an account service.
3 Follow the on-screen instructions to complete the account setup.

To sync content with your accounts, select an account and select items to sync.

Removing accounts
On the Settings screen, tap Accounts, select an account name, select the account to remove, and then tap MORE → Remove account.

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

Backup and reset
Change the settings for managing settings and data.
On the Settings screen, tap Backup and reset.

- **Back up my data**: Back up your personal information and app data to the Samsung server. You can also set the device to automatically back up data.
- **Restore**: Restore previously backed up personal information and app data from your Samsung account.
- **Back up my data**: Set the device to back up settings and app data to the Google server.
- **Backup account**: Set up or edit your Google backup account.
- **Automatic restore**: Set the device to automatically restore settings and app data from the Google server when apps are reinstalled.
- **Auto restart**: Set the device to restart itself at preset times for optimal performance.
- **Reset settings**: Return the device's settings to the factory default settings without deleting data.
- **Reset network settings**: Return the network connection settings to the factory default settings.
- **Factory data reset**: Return the device to the factory default settings and delete all data.
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.

On the Settings screen, tap Language and input.

• **Language**: Select a display language for all menus and apps.
• **Default keyboard**: Select a default keyboard type for text input.
• **Samsung keyboard**: Change the Samsung keyboard settings.
• **Google voice typing**: Change the voice input settings.
• **Text-to-speech**: Change the text-to-speech settings.
• **Pointer speed**: Adjust the pointer speed for the mouse or trackpad connected to your device.

Battery

View battery power information and change power saving options.

On the Settings screen, tap 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.

• **BATTERY USAGE**: View the amount of battery power consumed by your device.
• **Power saving mode**: Activate power-saving mode and change the settings for power-saving mode. Refer to Power saving mode for more information.
• **Ultra power saving mode**: Extend standby time and reduce battery consumption by displaying a simpler layout and allowing limited access to an app. Refer to Ultra power saving mode for more information.
• **App power saving**: Save battery power by optimising the battery usage for each app.
• **Percentage on status bar**: Set the device to display the remaining battery life.
**Storage**

View memory information for your device.

On the Settings screen, tap **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.

**Date and time**

Access and alter the following settings to control how the device displays the time and date.

On the Settings screen, tap **Date and time**.

- If the battery remains fully discharged or removed from the device, the time and date is reset.
  - **Automatic date and time**: Automatically update the time and date when moving across time zones. When this feature is deactivated, you can manually set the date, time, and time zone.
  - **Use 24-hour format**: Display time in 24-hour format.

**User manual**

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

On the Settings screen, tap **User manual**.

**About device**

Access device information, edit the device name, or update device software.

On the Settings screen, tap **About device**.
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 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.

On the Apps screen, tap Settings → Backup and reset → Factory data reset → RESET DEVICE → ERASE EVERYTHING. Before performing the factory data reset, remember to make backup copies of all important data stored in the device.
Appendix

Calls are not connected

- Ensure that you have accessed the right cellular network.
- Ensure that you have not set call barring for the phone number you are dialling.
- Ensure that you have not set call barring for the incoming phone number.

Others cannot hear you speaking on a call

- Ensure that you are not covering the built-in microphone.
- Ensure that the microphone is close to your mouth.
- If using a headset, ensure that it is properly connected.

Sound echoes during a call

Adjust the volume by pressing the Volume key or move to another area.

A cellular network or the Internet is often disconnected or audio quality is poor

- Ensure that you are not blocking the device’s internal antenna.
- When you are in areas with weak signals or poor reception, you may lose reception. You may have connectivity problems due to issues with the service provider’s base station. Move to another area and try again.
- When using the device while moving, wireless network services may be disabled due to issues with the service provider’s network.

The battery icon is empty

Your battery is low. Charge the battery.

The battery does not charge properly (For Samsung-approved chargers)

- Ensure that the charger is connected properly.
- Visit a Samsung Service Centre and have the battery replaced.
The battery depletes faster than when first purchased

- When you expose the device or the battery to very cold or very hot temperatures, the useful charge may be reduced.
- Battery consumption increases when you use messaging features or some apps, such as games or the Internet.
- The battery is consumable and the useful charge will get shorter over time.

Your device is hot to the touch

When you use apps that require more power or use apps on your device for an extended period of time, your device may feel hot to the touch. This is normal and should not affect your device's lifespan or performance.

If the device overheats or feels hot for a prolonged period, do not use it for a while. If the device continues to overheat, contact a Samsung Service Centre.

Error messages appear when launching the camera

Your device must have sufficient available memory and battery power to operate the camera app. If you receive error messages when launching the camera, try the following:

- Charge the battery.
- Free some memory by transferring files to a computer or deleting files from your device.
- Restart the device. If you are still having trouble with the camera app after trying these tips, contact a Samsung Service Centre.

Photo quality is poorer than the preview

- The quality of your photos may vary, depending on the surroundings and the photography techniques you use.
- If you take photos in dark areas, at night, or indoors, image noise may occur or images may be out of focus.
Error messages appear when opening multimedia files

If you receive error messages or multimedia files do not play when you open them on your device, try the following:

- Free some memory by transferring files to a computer or deleting files from your device.
- Ensure that the music file is not Digital Rights Management (DRM)-protected. If the file is DRM-protected, ensure that you have the appropriate licence or key to play the file.
- Ensure that the file formats are supported by the device. If a file format is not supported, such as DivX or AC3, install an app that supports it. To confirm the file formats that your device supports, visit www.samsung.com.
- Your device supports photos and videos captured with the device. Photos and videos captured by other devices may not work properly.
- Your device supports multimedia files that are authorised by your network service provider or providers of additional services. Some content circulated on the Internet, such as ringtones, videos, or wallpapers, may not work properly.

Another Bluetooth device is not located

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

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

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

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

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

Data stored in the device has been lost

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

A small gap appears around the outside of the device case

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

There is not enough space in the device’s storage

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