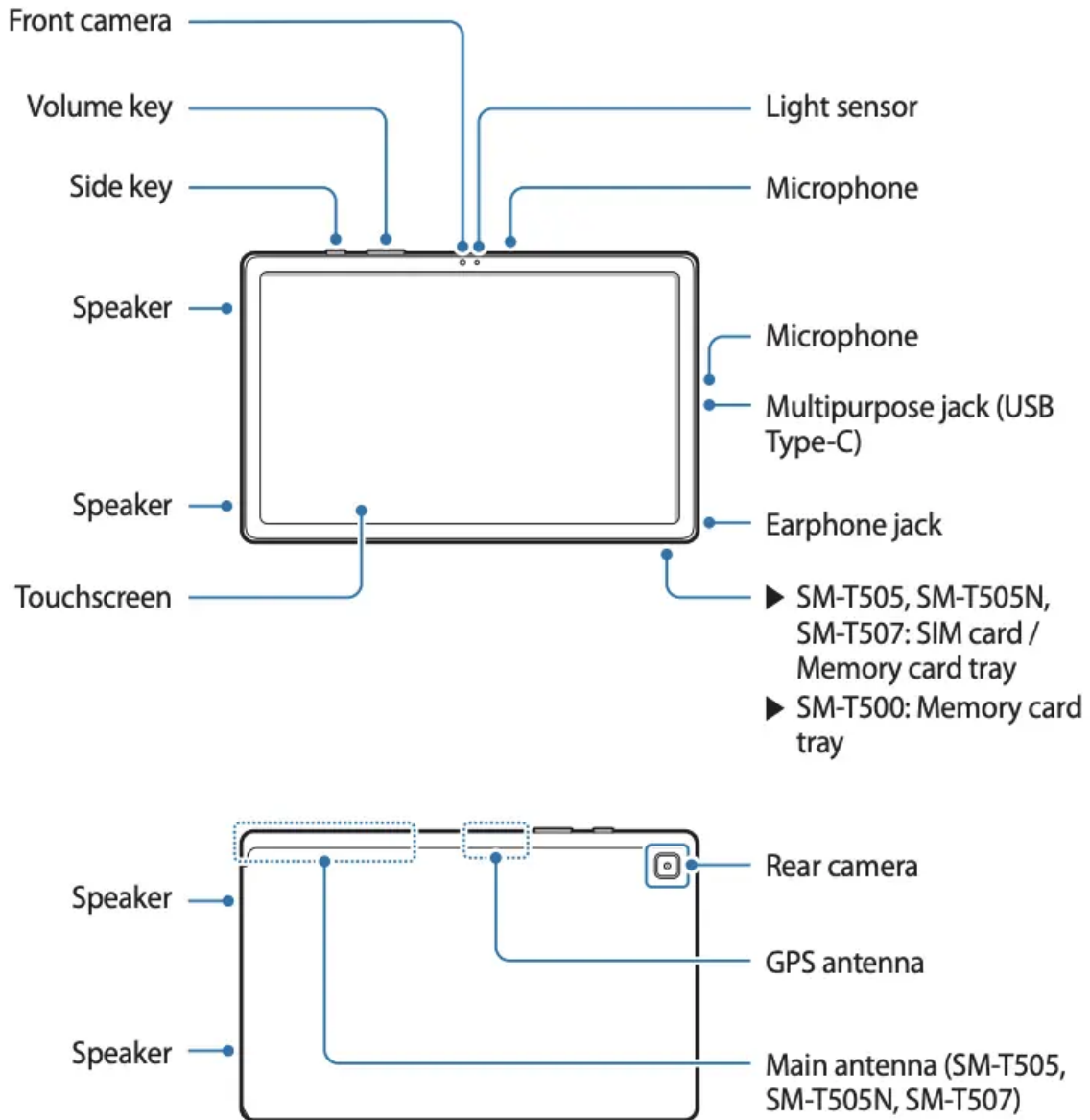


## Basics

### Device layout



- When using the speakers, such as when playing media files, do not place the device close to your ears.
- Be careful not to expose the camera lens to a strong light source, such as direct sunlight. If the camera lens is exposed to a strong light source, such as direct sunlight, the

camera image sensor may be damaged. A damaged image sensor is irreparable and will cause dots or spots in pictures.

- If you use the device with its glass or acrylic body broken, there may be a risk of injury. Use the device only after it has been repaired at a Samsung Service Centre.
- If dust or foreign materials enter the microphone, speaker, or receiver, the device's sound may become quiet or certain features may not work. If you attempt to remove the dust or foreign materials with a sharp object, the device may be damaged and its appearance may be affected.



- 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 (Mobile network enabled models)

- Using a Samsung-approved screen protector is recommended. Unapproved screen protectors may cause the sensors to malfunction.
- Do not cover the light sensor area with screen accessories, such as a screen protector, stickers, or a cover. Doing so may cause the sensor to malfunction.
- Do not allow water to contact the touchscreen. The touchscreen may malfunction in humid conditions or when exposed to water.

## Hard keys

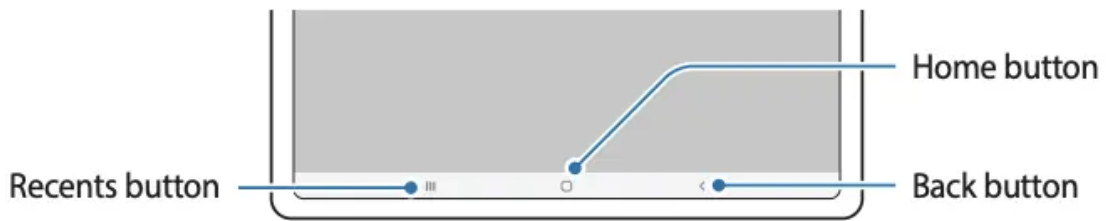
Key	Function
<b>Side key</b>	<ul style="list-style-type: none"><li>• Press and hold to turn the device on or off.</li><li>• Press to turn on or lock the screen.</li><li>• Press twice to launch the app or feature you set.</li></ul>
<b>Side key + Volume Down key</b>	<ul style="list-style-type: none"><li>• Press simultaneously to capture a screenshot.</li><li>• Press and hold simultaneously to turn off the device.</li></ul>

## Setting the Side key

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

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

## Soft buttons



When you turn on the screen, the soft buttons will appear at the bottom of the screen. Refer to Navigation bar (soft buttons) for more information.

## 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 battery, charger, and cable specifically designed for your device. Incompatible battery, charger, and cable can cause serious injuries or damage to your device.



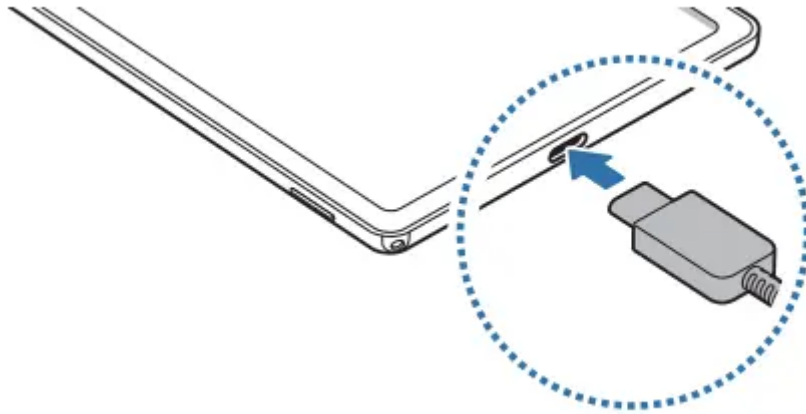
- Connecting the charger improperly may cause serious damage to the device. Any damage caused by misuse is not covered by the warranty.
- Use only USB Type-C cable supplied with the device. The device may be damaged if you use Micro USB cable.



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

## Wired charging

Connect the USB cable to the USB power adaptor and plug the cable into the device's multipurpose jack to charge the battery. After fully charging, disconnect the charger from the device.



## Quick charging

Launch the Settings app, tap Battery and device care → Battery → More battery settings, and then activate the feature you want.

- Fast charging: To use the fast charging feature, use a battery charger that supports Adaptive fast charging.



You can charge the battery more quickly while the device or its screen is turned off.

## Reducing the battery consumption

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

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

## Battery charging tips and precautions

- 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.

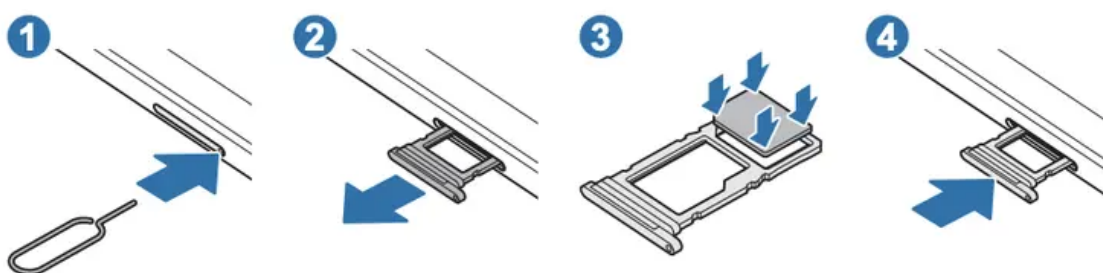
## **SIM or USIM card (nano-SIM card) (Mobile network enabled models)**

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



Some services that require a network connection may not be available depending on the service provider.

### **Installing the SIM or USIM card**



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

2 Pull out the tray gently from the tray slot.

3 Place the SIM or USIM card on the tray with the gold-coloured contacts facing downwards and gently press the SIM or USIM card into the tray to secure it.

4 Insert the tray back into the tray slot.

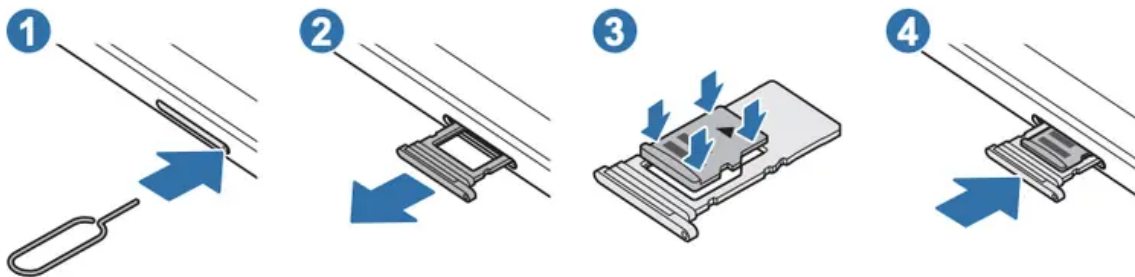


- Use only a nano-SIM card.
- Use caution not to lose or let others use the SIM or USIM card. Samsung is not responsible for any damages or inconveniences caused by lost or stolen cards.
- Ensure that the ejection pin is perpendicular to the hole. Otherwise, the device may be damaged.
- If the card is not fixed firmly into the tray, the SIM card may leave or fall out of the tray.
- If you insert the tray into your device while the tray is wet, your device may be damaged. Always make sure the tray is dry.
- Fully insert the tray into the tray slot to prevent liquid from entering your device.

## Memory card (microSD card)

### Installing a memory card

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



1. Insert the ejection pin into the hole on the tray to loosen the tray.
2. Pull out the tray gently from the tray slot.
3. Place a memory card on the tray with the gold-coloured contacts facing downwards and gently press the memory card into the tray to secure it.
4. Insert the tray back into the tray slot.



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



- When you remove the tray from the device, the mobile data connection will be disabled. (Mobile network enabled models)
- If the card is not fixed firmly into the tray, the memory card may leave or fall out of the tray.
- If you insert the tray into your device while the tray is wet, your device may be damaged. Always make sure the tray is dry.
- Fully insert the tray into the tray slot to prevent liquid from entering your device.



- The device supports the FAT and the exFAT file systems for memory cards. When inserting a card formatted in a different file system, the device will ask to reformat the card or will not recognise the card. To use the memory card, you must format it. If your device cannot format or recognise the memory card, contact the memory card manufacturer or a Samsung Service Centre.
- Frequent writing and erasing of data shortens the lifespan of memory cards.
- When inserting a memory card into the device, the memory card's file directory appears in the My Files → SD card folder.

### Removing the memory card

Before removing the memory card, first unmount it for safe removal.



1. Launch the Settings app and tap Battery and device care → Storage.
2. Swipe to the left to view the SD card page.
3.  Tap  → Unmount.



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

### Formatting the memory card

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

1. Launch the Settings app and tap Battery and device care → Storage.
2. Swipe to the left to view the SD card page.
3.  Tap  → Format.

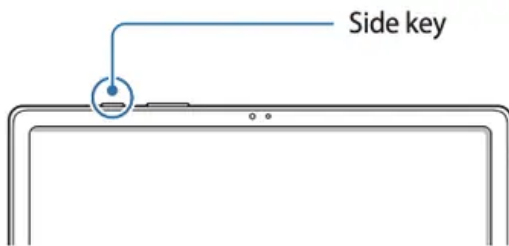


Before formatting the memory card, remember to make backup copies of all important data stored in the memory card. The manufacturer's warranty does not cover loss of data resulting from user actions.

## Turning the device on and off




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



### Turning the device on

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

### Turning the device off

1. To turn off the device, press and hold the Side key. Alternatively, open the notification panel, swipe downwards, and then tap .
2. Tap Power off. To restart the device, tap Restart.

### Forcing restart

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

### Initial setup

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



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

### Face recognition

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



- If you use your face as a screen lock method, your face cannot be used to unlock the screen for the first time after turning on the device. To use the device, you must unlock the screen using the pattern, PIN, or password you set when registering the face. Be careful not to forget your pattern, PIN, or password.
- If you change the screen lock method to Swipe or None, which are not secure, all of your biometric data will be deleted. If you want to use your biometric data in apps or features, you must register your biometric data again.



### **Precautions for using face recognition**

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

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

### **For better face recognition**

Consider the following when using face recognition:

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

### **Registering your face**

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

1. Launch the Settings app and tap Biometrics and security → Face recognition.
2. Read the on-screen instructions and tap Continue.
3. Set a screen lock method.
4. Position your face inside the frame on the screen. The camera will scan your face.



If unlocking the screen with your face is not working properly, tap Remove face data to remove your registered face and register your face again.

### **Unlocking the screen with your face**

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

1. Launch the Settings app and tap Biometrics and security → Face recognition.
2. Unlock the screen using the preset screen lock method.

3. Tap the Face unlock switch to activate it.
4. On the locked screen, look at the screen. When your face is recognised, you can unlock the screen without using any additional screen lock method. If your face is not recognised, use the preset screen lock method.

### **Deleting the registered face data**

You can delete face data that you have registered.

1. Launch the Settings app and tap Biometrics and security → Face recognition.
2. Unlock the screen using the preset screen lock method.
3. Tap Remove face data → Remove. Once the registered face is deleted, all the related features will also be deactivated.

## **Camera**

### **Introduction**


Take photos and record videos using various modes and settings.

### ***Camera etiquette***


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

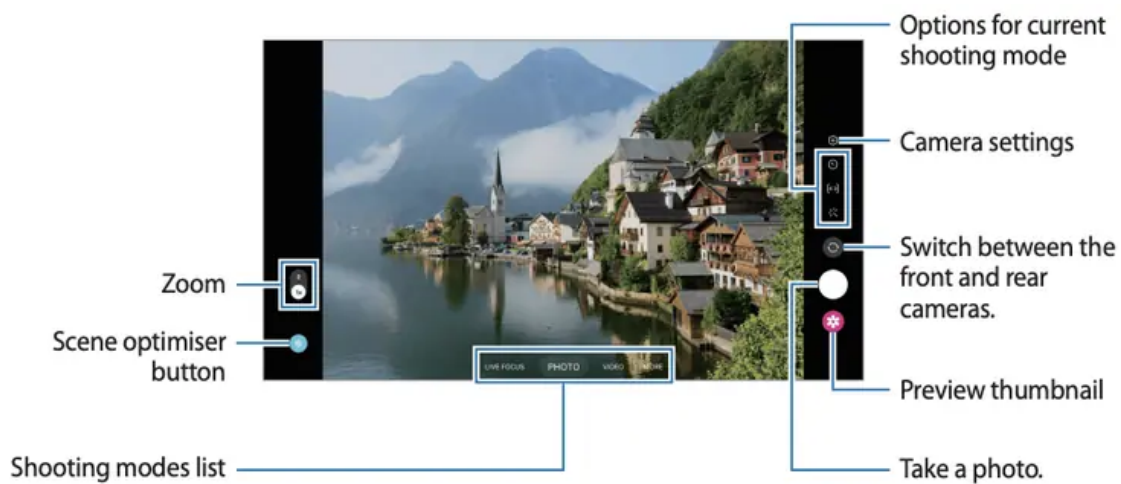
### **Taking photos**

1. Launch the Camera app.

You can also launch the app by pressing the Side key twice quickly or dragging to  the left on the locked screen.



- Some camera features are not available when you launch the Camera app from the locked screen or when the screen is turned off while the screen lock method is set.
  - The camera automatically shuts off when unused.
  - Some methods may not be available depending on the service provider or model.
2. Tap the image on the preview screen where the camera should focus. To adjust the brightness of pictures, drag the adjustment bar that appears below the circular frame.
  3. Tap  to take a photo. To change the shooting mode, drag the shooting modes list to the left or right, or swipe to the left or right on the preview screen.



- The preview screen may vary depending on the shooting mode and which camera is being used.
- When you take photos or videos with a high resolution or a high zoom ratio, the focus may not be clear if the subject is close. Take photos or videos from a good distance.
- If photos you take appear blurry, clean the camera lens and try again.
- Make sure that the lens is not damaged or contaminated. Otherwise, the device may not work properly in some modes that require high resolutions.
- Your device's camera features a wide-angle lens. Minor distortion may occur in wideangle photos or videos and does not indicate device performance problems.
- The maximum capacity for recording a video may vary depending on the resolution.
- The camera may fog up or form condensation if the device is exposed to sudden changes in air temperature, due to the difference in temperature outside and inside the camera cover. Try to avoid such conditions when planning to use the camera. If fogging does occur, allow the camera to dry naturally at room temperature before taking photos or recording videos, otherwise results may look blurry

### Using zoom features

Select 2/1 or drag it to up or down to zoom in or out. Alternatively, spread two fingers apart on the screen to zoom in, and pinch to zoom out.

- 2: Take photos or record videos by enlarging the subject.
- 1: Take basic photos or record normal videos.



Zoom features are available only when using the rear camera.

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


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

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















This feature may not be available depending on the shooting mode.


### Using the camera button

- Tap and hold the camera button to record a video.
- To take burst shots, swipe the camera button to the edge of the screen and hold it.
- If you add another camera button, you can move it anywhere on the screen and take photos more conveniently. On the preview screen, tap  → Shooting methods and tap the Floating Shutter button switch to activate it.

### Options for current shooting mode

On the preview screen, use the following options.

-  Activate or deactivate the flash.
-  Select the length of the delay before the camera automatically takes a photo.
-  Select an aspect ratio for photos.
-  Select a frame rate.
-  Select an aspect ratio for videos.
-  Select a resolution for videos.
-  : Apply a filter effect or beauty effects.
-  Select a metering method. This determines how light values are calculated.  Centre-weighted uses the light in the centre portion of the shot to calculate the exposure of the shot.  Spot uses the light in a concentrated centre area of the shot to calculate the exposure of the shot.  Matrix averages the entire scene.
-  : In FOOD mode, focus on a subject inside the circular frame and blur the image outside the frame.

- : In FOOD mode, adjust the colour tone.



The available options may vary depending on the model or shooting mode.

## Photo mode


The camera adjusts the shooting options automatically depending on the surroundings to capture photos easily.

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

## Scene optimiser




When the camera recognises the subject, the scene optimiser button will change and the optimised colour and effect will be applied.



If this feature is not activated, tap  on the preview screen and tap the Scene optimiser switch to activate it.


## Taking selfies

You can take self-portraits with the front camera.

1. On the preview screen, swipe upwards or downwards, or tap  to switch to the front camera for self-portraits.
2. Face the front camera lens. To take self-portraits with a wide-angle shot of the landscape or people, tap .
3. Tap  to take a photo.




## Applying filter and beauty effects


You can select a filter effect and modify facial features, such as your skin tone or face shape, before taking a photo.

1. On the preview screen, tap .
2. Select effects and take a photo.

## Video mode


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

1. On the shooting modes list, tap VIDEO and tap  to record a video.
  - To switch between the front and rear cameras while recording, tap .
  - To capture an image from the video while recording, tap .

2. Tap  to stop recording the video.

## Live focus mode

Take photos that focus on the face by blurring the background.

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







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

## Food mode





Take photos of food with more vibrant colours.

1. On the shooting modes list, tap MORE → FOOD.

2. Tap the screen and drag the circular frame over the area to highlight. The area outside the circular frame will be blurred. To resize the circular frame, drag a corner of the frame.
3.  Tap  and drag the adjustment bar to adjust the colour tone.
4.  Tap  to take a photo.

## Panorama mode

Using panorama mode, take a series of photos and then stitch them together to create a wide scene.


1. On the shooting modes list, tap MORE → PANORAMA.
2.  Tap  and move the device 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.
3.  Tap  to stop taking photos.



Avoid taking photos of indistinct backgrounds, such as an empty sky or a plain wall.

## Pro mode

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

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

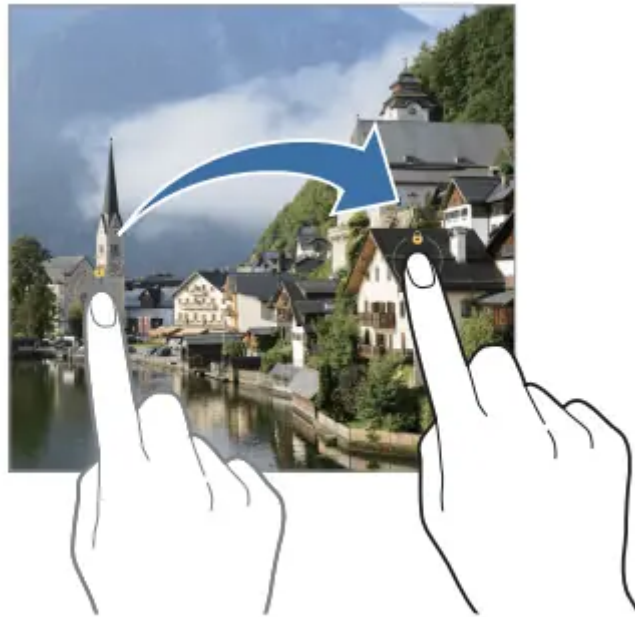
### Available options

- ISO: Select an ISO value. This controls camera light sensitivity. Low values are for stationary or brightly lit objects. Higher values are for fast-moving or poorly lit objects. However, higher ISO settings can result in noise in photos.
- WB: Select an appropriate white balance, so images have a true-to-life colour range. You can set the colour temperature.
- EV: Change the exposure value. This determines how much light the camera's sensor receives. For low-light situations, use a higher exposure.

### Separating the focus area and the exposure area




You can separate the focus area and the exposure area.

Tap and hold the preview screen. The AF/AE frame will appear on the screen. Drag the frame to the area where you want to separate the focus area and the exposure area.



## Hyperlapse mode

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


1. On the shooting modes list, tap MORE → HYPERLAPSE.
2. Tap  and select a frame rate option.
3. Tap  to start recording.
4. Tap  to finish recording.

## Deco Pic mode

Capture photos or videos with various stickers.

On the shooting modes list, tap MORE → Deco Pic.

## Customising camera settings

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

## Intelligent features

- Scene optimiser: Set the device to adjust the colour settings automatically depending on the subject or scene.

- Scan QR codes: Set the device to scan QR codes from the preview screen.

## Pictures

- Swipe Shutter button to edge to: Select an action to perform when you swipe the camera button to the edge of the screen and hold it.
- Save selfies as previewed: Set the device to save photos as they appear on the preview screen when taken with the front camera without flipping them.

## Videos

- High efficiency video: You can record videos in the High Efficiency Video Codec (HEVC) format. Your HEVC videos will be saved as compressed files to conserve the device's memory.



You cannot play the HEVC videos on other devices or share them online.

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

## Useful features

- Auto HDR: Take photos with rich colours and reproduce details even in bright and dark areas.
- Grid lines: Display viewfinder guides to help composition when selecting subjects.
- Location tags: Attach a GPS location tag to the photo.



- GPS signal strength may decrease in locations where the signal is obstructed, such as between buildings or in low-lying areas, or in poor weather conditions.
- Your location may appear on your photos when you upload them to the Internet. To avoid this, deactivate the location tag setting.
- Shooting methods: Select additional shooting methods for taking a photo or recording a video.
- Settings to keep: Keep the last settings you used, such as the shooting mode, when you launch the camera.
- Storage location: Select the memory location for storage. This feature will appear when you insert a memory card.
- Watermark: Add a watermark in the bottom left corner when taking pictures.

## Others

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

- About Camera: View the Camera app version and legal information.



Some features may not be available depending on the model.

## Settings

### Samsung account

Sign in to your Samsung account and manage it.

On the Settings screen, tap Samsung account.

### Connections

#### Options

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

On the Settings screen, tap Connections.

- Wi-Fi: Activate the Wi-Fi feature to connect to a Wi-Fi network and access the Internet or other network devices. Refer to Wi-Fi for more information.
- Bluetooth: Use Bluetooth to exchange data or media files with other Bluetooth-enabled devices. Refer to Bluetooth for more information.
- Flight mode: Set the device to disable all wireless functions on your device. You can use only non-network services.



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

- Mobile networks: Configure your mobile network settings.
- Data usage: Keep track of your data usage amount and customise the settings for the limitation. Set the device to automatically disable the mobile data connection when the amount of mobile data you have used reaches your specified limit.

You can activate the data saver feature to prevent some apps running in the background from sending or receiving data. Refer to Data saver (Mobile network enabled models) for more information.

You can also select apps to always use the mobile data even when your device is connected to a Wi-Fi network. Refer to Mobile data only apps (Mobile network enabled models) for more information.



Some features may not be available depending on the model.

- Mobile Hotspot and Tethering: Use the device as a mobile hotspot to share the device's mobile data connection with other devices. For more information about the mobile hotspot, refer to Mobile Hotspot (Mobile network enabled models).



You may incur additional charges when using this feature.

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



Some features may not be available depending on the model.

## Wi-Fi

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

### Connecting to a Wi-Fi network

1. On the Settings screen, tap Connections → Wi-Fi and tap the switch to activate it.
2. Select a network from the Wi-Fi networks list.

Networks with a lock icon require a password.




- Once the device connects to a Wi-Fi network, the device will reconnect to that network each time it is available without requiring a password. To prevent the device from connecting to the network automatically, tap next to the network and tap the Auto reconnect switch to deactivate it.
- If you cannot connect to a Wi-Fi network properly, restart your device's Wi-Fi feature or the wireless router.

### Viewing the Wi-Fi network quality information

View the Wi-Fi network quality information, such as the speed and stability.

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

quality information will appear under the Wi-Fi networks. If it does not appear, tap  → Advanced and tap the Show network quality info switch to activate it.



The quality information may not appear depending on the Wi-Fi network.



### Sharing Wi-Fi network passwords

If you make a request to a person who is connected to a secured Wi-Fi network to share its password, you can connect to the network without entering the password. This feature is available between the devices which have contacts each other and the screen of the other device must be turned on.

1. On the Settings screen, tap Connections → Wi-Fi and tap the switch to activate it.
2. Select a network from the Wi-Fi networks list.
3. Tap Request password.
4. Accept the share request on the other device. The Wi-Fi password is entered on your device and it is connected to the network.

### Wi-Fi Direct

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

1. On the Settings screen, tap Connections → Wi-Fi and tap the switch to activate it.
2.  Tap  → Wi-Fi Direct. The detected devices are listed. If the device you want to connect to is not in the list, request that the device turns on its Wi-Fi Direct feature.
3. Select a device to connect to.

The devices will be connected when the other device accepts the Wi-Fi Direct connection request.

To end the device connection, select the device to disconnect from the list.

### Bluetooth

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



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


## Pairing with other Bluetooth devices

1. On the Settings screen, tap Connections → Bluetooth and tap the switch to activate it. The detected devices will be listed.
2. Select a device to pair with. If the device you want to pair with is not on the list, set the device to enter Bluetooth pairing mode. Refer to the other device's user manuals.




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.

To unpair the devices, tap  next to the device name to unpair and tap Unpair.

## Sending and receiving data


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

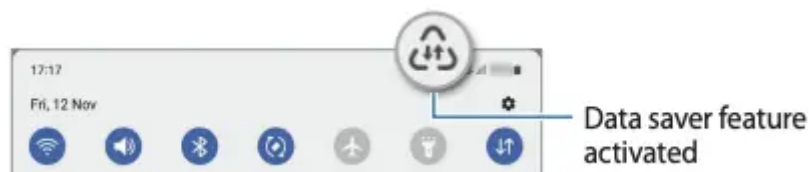
1. Launch the Gallery app and select an image.
2. Tap  → Bluetooth and select a device to transfer the image to. If the device you want to pair with is not in the list, request that the device turns on its visibility option.
3. Accept the Bluetooth connection request on the other device.

## Data saver (Mobile network enabled models)

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

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

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



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

## More connection settings

Customise settings to control other connection features.

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

- Nearby device scanning: Set the device to scan for nearby devices to connect to.
- Printing: Configure settings for printer plug-ins installed on the device. You can search for available printers or add one manually to print files. Refer to Printing for more information.
- VPN: Set up virtual private networks (VPNs) on your device to connect to a school or company's private network.
- Private DNS: Set the device to use the security enhanced private DNS.
- Ethernet: When you connect an Ethernet adaptor, you can use a wired network and configure network settings.

## Printing

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




Some printers may not be compatible with the device.

### ***Adding printer plug-ins***

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

1. On the Settings screen, tap Connections → More connection settings → Printing → Download plugin.
2. Select a printer plug-in and install it.
3. Select the installed printer plug-in. The device will automatically search for printers that are connected to the same Wi-Fi network as your device.
4. Select a printer to add.



To add printers manually, tap  → Add printer

### ***Printing content***

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



Printing methods may vary depending on the content type.

## Sound

### Options

Change settings for various sounds on the device.

On the Settings screen, tap Sound.

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



Some features may not be available depending on the model.

## Notifications

Change the notification settings.

On the Settings screen, tap Notifications.

- Notification pop-up style: Select a notification pop-up style and change the settings.
- Recently sent: View the apps that received recent notifications and change the notification settings. To customise notification settings for more apps, tap More → ▼ → All and select an app from the apps list.
- Do not disturb: Set the device to mute all sounds except for allowed exceptions.
- Advanced settings: Configure advanced settings for notifications

## Display

Change the display and the Home screen settings.

On the Settings screen, tap Display.

- Light / Dark: Activate or deactivate dark mode.
- Dark mode settings: Reduce eye strain by applying the dark theme when using the device at night or in a dark place. You can set a schedule for applying dark mode.



The dark theme may not be applied in some apps.

- Brightness: Adjust the brightness of the display.

- Adaptive brightness: Set the device to keep track of your brightness adjustments and apply them automatically in similar lighting conditions.
- Eye comfort shield: Reduce eye strain by limiting the amount of blue light emitted by the screen. You can set a schedule for applying this feature.
- Font size and style: Change the font size and style.
- Screen zoom: Make the items on the screen larger or smaller.
- Screen timeout: Set the length of time the device waits before turning off the display's backlight.
- Edge panels: Change the settings for the Edge panel.
- Navigation bar: Change the navigation bar settings. Refer to Navigation bar (soft buttons) for more information.
- Screen saver: Set the device to launch a screensaver when the device is charging.



Some features may not be available depending on the model.

## Wallpaper and style

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

On the Settings screen, tap Wallpaper and style.

### Home screen

Configure settings for the Home screen, such as the screen layout.

On the Settings screen, tap Home screen.

### Lock screen

#### Options

Change the settings for the locked screen.

On the Settings screen, tap Lock screen.

- Screen lock type: Change the screen lock method.
- Smart Lock: Set the device to unlock itself when trusted locations or devices are detected. Refer to Smart Lock for more information.
- Secure lock settings: Change screen lock settings for the selected lock method.
- Wallpaper services: Set the device to use wallpaper services such as Dynamic Lock screen.
- Clock style: Change the type and colour of the clock on the locked screen.

- Roaming clock: Change the clock to show both the local and home time zones on the locked screen when roaming.
- Widgets: Change the settings of the items displayed on the locked screen.
- Contact information: Set the device to show contact information, such as your email address, on the locked screen.
- Notifications: Set how to show notifications on the locked screen.
- Shortcuts: Select apps to display shortcuts to them on the locked screen.
- About Lock screen: View the Lock screen version and legal information.



- Some features may not be available depending on the service provider or model.
- The available options may vary depending on the screen lock method selected.

### Smart Lock

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

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

On the Settings screen, tap Lock screen → Smart Lock and follow the on-screen instructions to complete the setup.



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

### Advanced features

#### Options

Activate advanced features and change the settings that control them.

On the Settings screen, tap Advanced features.

- Call & text on other devices: Use your device's calling and messaging features on other devices signed in to your Samsung account.
- Continue apps on other devices: Use your device's apps on other devices signed in to your Samsung account.
- Android Auto: Connect your device to a vehicle and control some of your device's features on the vehicle's display.

- Quick Share: Change the Quick Share settings. Refer to Quick Share for more information.
- Labs: Use new features of the device.
- Side key: Select an app or feature to launch using the Side key. Refer to Setting the Side key for more information.
- Motions and gestures: Activate the motion feature and configure settings. Refer to Motions and gestures for more information.
- Screenshots: Change the settings for screenshots.
- Show contacts when sharing content: Set the device to display the people you contacted on the sharing options panel to allow you to share content directly.
- Accessories: Change the accessory settings.
- Game Launcher: Activate the Game Launcher. Refer to Game Launcher for more information.
- Dual Messenger: Install the second app and use two separate accounts for the same messenger app.



Some features may not be available depending on the service provider or model.

## Motions and gestures

Activate the motion feature and configure settings.

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

- Double tap to turn on screen: Set the device to turn on the screen by double-tapping anywhere on the screen while the screen is turned off.
- Double tap to turn off screen: Set the device to turn off the screen by double-tapping an empty area on the Home screen or the locked screen.



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

## Digital Wellbeing and parental controls

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

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

- Screen time: Set goals for how much you use your device a day.
- App timers: Limit the daily usage time for each app by setting a timer. When you reach the limit, the app will be deactivated and you cannot use it.

- Focus mode: Activate focus mode to avoid distractions from your device and stay focused on what you want. You can use the apps you allowed to be used in focus mode.
- Bedtime mode: Activate bedtime mode to reduce eye strain before sleeping and prevent your sleep from being disturbed.
- Driving monitor: Activate the driving monitor to monitor the amount of the time you use your device while driving.
- Parental controls: Manage your children's digital use.

## Battery and device care

### Introduction

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


### Optimising your device

On the Settings screen, tap Battery and device care → Optimise now.

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

- Closing apps running in the background.
- Managing abnormal battery usage.
- Scanning for crashed apps and malware.

### Using the auto optimisation feature

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

### Battery

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

On the Settings screen, tap Battery and device care → Battery.

- Power saving: Activate power saving mode to extend the battery's usage time.
- Background usage limits: Limit battery usage for apps that you do not use often.
- More battery settings: Configure advanced settings for the battery.



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

## Storage

Check the status of the used and available memory.

On the Settings screen, tap Battery and device care → Storage. To delete files or uninstall apps that you do not use anymore, select a category. Then, tap and hold, or select, an item and tap Delete or Uninstall.



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

## Memory

On the Settings screen, tap Battery and device care → Memory.

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

## Device protection

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

On the Settings screen, tap Battery and device care → Device protection → Scan tablet.

## General management

Customise your device's system settings or reset the device.

On the Settings screen, tap General management.

- Language: Select device languages. Refer to Adding device languages for more information.
- Text-to-speech: Change the settings for text-to-speech features used when TalkBack is activated, such as languages, speed, and more.
- Date and time: Access and alter the settings to control how the device displays the time and date.




If the battery remains fully discharged, the time and date is reset.

- Samsung Keyboard settings: Change the settings for the Samsung keyboard.
- Keyboard list and default: Select a keyboard to use by default and change the keyboard settings.
- Physical keyboard: Change the settings for an external keyboard.
- Mouse and trackpad: Change the settings for an external mouse or trackpad.
- Passwords and autofill: Select an autofill service to use.
- Reset: Reset your device's settings or perform a factory data reset.
- Contact us: Ask questions or view frequently asked questions.

### Adding device languages

You can add languages to use on your device.

1. On the Settings screen, tap General management → Language → Add language. To view all the languages that can be added, tap  → All languages.
2. Select a language to add.
3. To set the selected language as the default language, tap Set as default. To keep the current language setting, tap Keep current. The selected language will be added to your languages list. If you changed the default language, the selected language will be added to the top of the list.

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

## Appendix

### Troubleshooting

Before contacting a Samsung Service Centre, please attempt the following solutions. Some situations may not apply to your device.

You can also use Samsung Members to solve any problems you might encounter while using 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 Side key and the Volume Down key simultaneously for more than 7 seconds to restart it.

## **Resetting the device**

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

Launch the Settings app and tap General management → Reset → Factory data reset → Reset → Delete all. Before performing the factory data reset, remember to make backup copies of all important data stored in the device.

## **Calls are not connected**

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

## **Others cannot hear you speaking on a call**

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

## **Sound echoes during a call**

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

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

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

## **The battery 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 will increase when you use certain features or apps, such as GPS, games, or the Internet.
- The battery is consumable and the useful charge will get shorter over time

## **Error messages appear when launching the camera**

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

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

### **Photo quality is poorer than the preview**

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

### **Error messages appear when opening multimedia files**

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

- Free some memory by transferring files to a computer or deleting files from your device.
- Ensure that the music file is not Digital Rights Management (DRM)-protected. If the file is DRM-protected, ensure that you have the appropriate licence or key to play the file.
- Ensure that the file formats are supported by the device. If a file format is not supported, such as DivX or AC3, install an app that supports it. To confirm the file formats that your device supports, visit the Samsung website.
- 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.

### **Bluetooth is not working well**

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


- Ensure that the device you wish to connect with is ready to be scanned or connected to.
- Ensure that your device and the other Bluetooth device are within the maximum Bluetooth range (10 m).
- On your device, launch the Settings app, tap Connections, and then tap the Bluetooth switch to re-activate it.

- On your device, launch the Settings app, tap General management → Reset → Reset network settings → Reset settings → Reset to reset network settings. You may lose registered information when performing the reset.

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

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

Open the notification panel by dragging the status bar downwards, and then drag the notification

panel downwards. Tap  → Quick panel layout → Brightness control → Show always.

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

- Ensure that the USB cable you are using is compatible with your device.
- Ensure that you have the proper driver installed and updated on your computer.

### **Your device cannot find your current location**

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

### **Data stored in the device has been lost**

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

### **A small gap appears around the outside of the device case**

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

### **There is not enough space in the device's storage**

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

### **The Home button does not appear**

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

#### **Warning**

This content is compiled from multiple sources and is provided for reference purposes only. It may not be complete or fully applicable to all situations. If you are unable to resolve your issue, please contact the product manufacturer or an authorized service provider for official support.

