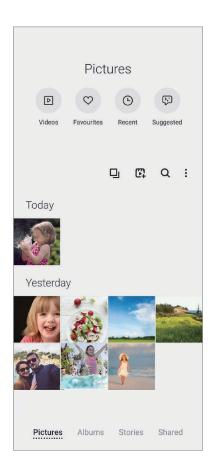
# **Gallery**

## Introduction

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

# **Using Gallery**

Launch the Gallery app.



- Videos: View the videos saved in your device.
- Favourites: View your favourite photos and videos.
- Recent: View recent photos and videos.
- Suggested: View recommended content.

#### **Grouping similar images**

Launch the **Gallery** app and tap **1** to group similar images and display only the best shots as a preview of the images. When you tap the image preview, you can view all the images in the group.



The icon appears only when there are similar images.

## **Creating movies**

Create a movie by selecting images or videos. Launch the **Gallery** app, tap **C**, tick the files you want to use, and then tap **Create movie**. When you select **Highlight reel**, the device will automatically combine the highlights from the images or videos and create a movie.

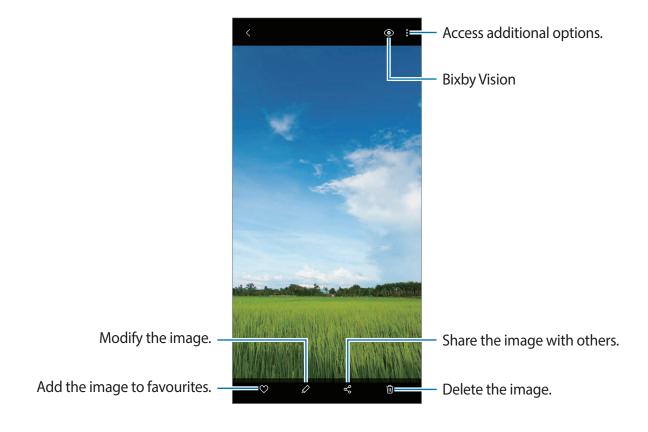
## **Searching for images**

Launch the **Gallery** app and tap  $\mathbb{Q}$  to view images sorted by category, such as types or locations.

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

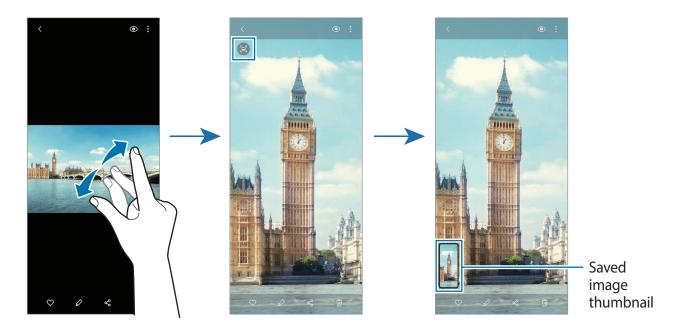
# **Viewing images**

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



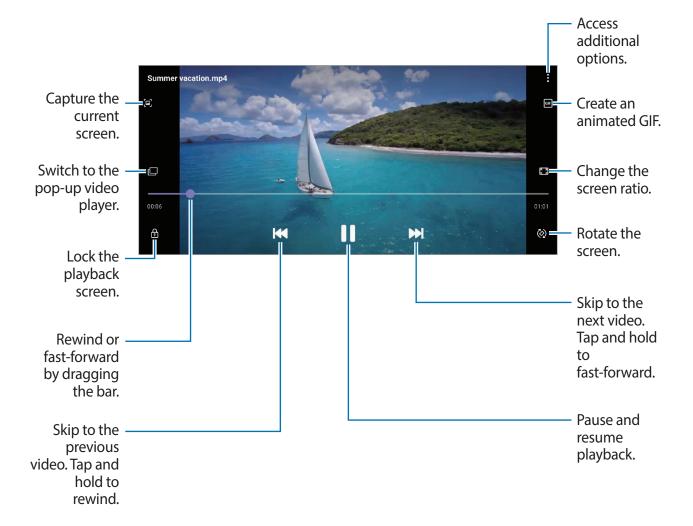
# Cropping images by enlarging an area

- 1 Launch the **Gallery** app and tap **Pictures**.
- 2 Select an image.
- 3 Double-tap or spread two fingers apart on the area you want to save and tap ...
  The cropped area will be saved as a file.



# Viewing videos

- 1 Launch the **Gallery** app and tap **Pictures**.
- 2 Select a video to play.
- 3 Tap **Play video** to play the video.



Drag your finger up or down on the left side of the playback screen to adjust the brightness, or drag your finger up or down on the right side of the playback screen to adjust the volume. To rewind or fast-forward, swipe to the left or right on the playback screen.

### Using the Video enhancer feature

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



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

## Viewing albums

You can view your images and videos sorted by folders or albums.

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

#### **Creating albums**

You can add albums and sort files.

- 1 Launch the **Gallery** app and tap **Albums**.
- 2 Tap  $\rightarrow$  Create album.
- 3 Enter a title for the album and tap **Create**.

## Moving photos and videos to albums

- 1 Launch the **Gallery** app and tap **Albums**.
- 2 Select an album and tap **Add items**.
- 3 Tap **Pictures**, or tap **Albums** and select an album with the images or videos you want.
- 4 Tick files and tap **Done**.
- 5 Tap Move.

The files will be deleted from the original folder and moved to the album. To copy the files, tap **Copy**.

## **Deleting albums**

- 1 Launch the **Gallery** app and tap **Albums**.
- 2 Tap and hold an album to delete, and tap **Delete**.

## Creating album groups

You can add groups and sort albums.

- 1 Launch the **Gallery** app and tap **Albums**.
- 2 Tap  $\rightarrow$  Create group.
- 3 Enter a title for the group and tap **Create**.
- 4 Select the group, tap **Add albums**, tick albums, and then tap **Add**. The albums will be moved to the group.

## **Viewing stories**

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

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

### **Editing stories**

## **Deleting stories**

- 1 Launch the **Gallery** app and tap **Stories**.
- 2 Tap and hold a story to delete, and tap **Delete**.

# Syncing images and videos

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

Launch the **Gallery** app, tap  $\longrightarrow$  **Settings**  $\longrightarrow$  **Cloud sync**, and then follow the on-screen instructions to complete the sync. The **Gallery** app and the cloud will be synced.



When you connect your Samsung account and Microsoft account, you can set the cloud storage as Microsoft OneDrive.

# **Deleting images or videos**

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

## Using the recycle bin feature

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

Launch the **Gallery** app, tap  $\longrightarrow$  **Settings**, and then tap the **Recycle bin** switch to activate it. To view files in the recycle bin, launch the **Gallery** app and tap  $\longrightarrow$  **Recycle bin**.

# **AR Zone**

## Introduction

AR Zone provides you AR related features, such as AR Emoji and AR Doodle. Choose a feature and capture fun photos or videos.

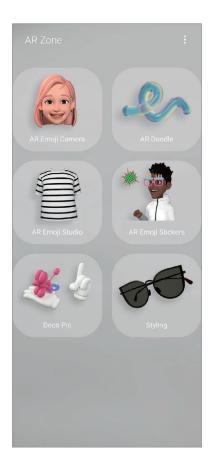
# Launching AR Zone

Use the following methods to launch AR Zone:

- Launch the **AR Zone** app.
- Launch the Camera app and tap MORE → AR ZONE.



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



• AR Emoji Camera: Create an emoji that looks just like you, and take photos and record videos using your emojis or character emojis.

- AR Doodle: Record fun videos with virtual handwriting or drawings on faces or anywhere else.
- AR Emoji Studio: Edit or decorate your emoji and create clothes with custom patterns and colours for your emoji.
- AR Emoji Stickers: Create your own stickers with your emoji's expressions and actions.
- Deco Pic: Capture photos or videos with various stickers.

# **Creating AR Emoji**

Create an emoji that looks just like you, and take photos and record videos using your emojis or character emojis.

You can customise your emoji's features, such as the face shape or hairstyle, and decorate your emoji with various accessories. You can also express yourself in fun ways using your emoji stickers during a conversation.







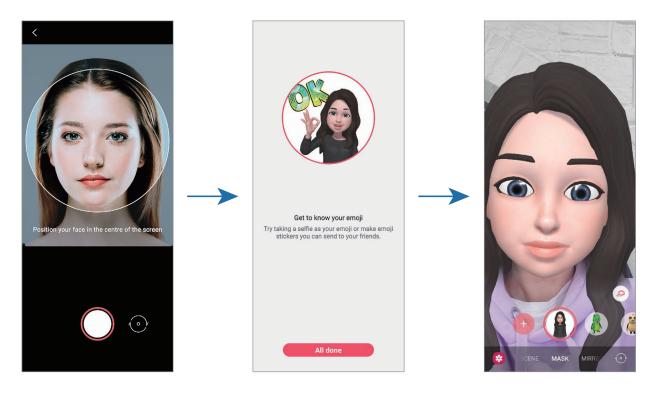
Character emoji

#### Creating an emoji

Make an emoji that looks like you. Emoji stickers with various expressions will be automatically generated.

- 1 Launch the AR Zone app and tap AR Emoji Camera  $\rightarrow +$ .
- Align your face on the screen and tap  $\bigcirc$  to take a photo.
- 3 Select your emoji type and tap **Next**.
- 4 Decorate your emoji and tap Next.
- 5 Tap All done.

Your emoji and its emoji stickers are now created. Refer to AR Emoji Stickers for more information about emoji stickers.





You can use the **AR Emoji Camera** feature in both the front and rear cameras. To switch between cameras, swipe upwards or downwards on the preview screen.

## Deleting an emoji

Launch the **AR Zone** app and tap **AR Emoji Camera**. Tap ᅟ → **Manage emojis**, tick the emoji you want to delete, and then tap **Delete**. The emoji and its emoji stickers will be deleted.

# **AR Emoji Camera**

# Capturing photos or videos with your emojis

Create fun photos or videos with your emoji using various shooting modes.

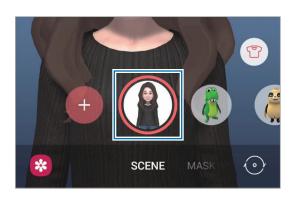








- 1 Launch the AR Zone app and tap AR Emoji Camera.
- 2 Select the emoji you want to use.



- 3 Select the mode you want to use.
  - SCENE: Your emoji mimics your expressions.
  - MASK: Your emoji's face appears over your face so it looks like you are wearing a mask.
  - MIRROR: Your emoji mimics your body movements.
  - PLAY: Your emoji moves on a real background.
- 4 Tap O to take a photo or tap and hold O to record a video.
  You can view and share the photos and videos that you have captured in Gallery.

## Capturing photos or videos with character emojis

Character emojis mimic your expressions.

- 1 Launch the AR Zone app and tap AR Emoji Camera.
- 2 Select a character emoji you want to use.



3 Tap O to take a photo or tap and hold O to record a video.
You can view and share the photos and videos that you have captured in **Gallery**.

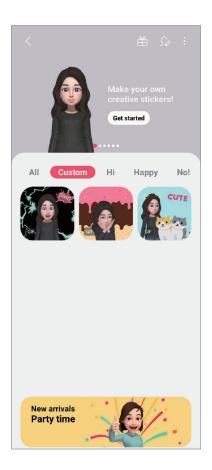
# **AR Emoji Stickers**

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

## Creating your own stickers

- 1 Launch the AR Zone app and tap AR Emoji Stickers.
- 2 Tap Make custom stickers at the bottom of the screen.
- 3 Edit stickers how you want.
  - 😺 : Add stickers.
  - 🖂 : Select the sticker's background.
  - 😡 : Select an expression.
  - (†): Select an action.
  - ⊤: Enter text.
  - 😭 : Write or draw on stickers.
- 4 Tap Save.

You can view the stickers you have created by tapping **Custom**.



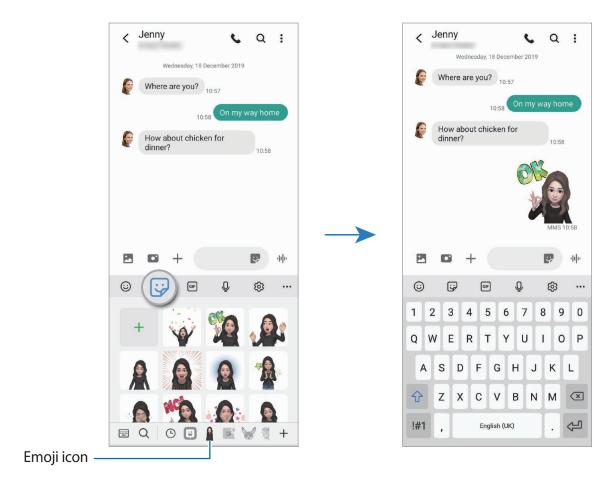
## Using your emoji stickers in chats

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



Some features may vary depending on the region or service provider.

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



## Deleting emoji stickers

On the Samsung keyboard, tap , tap at the bottom of the keyboard, and then tap Manage sticker sets. Select the emoji stickers you want to delete and tap Delete.

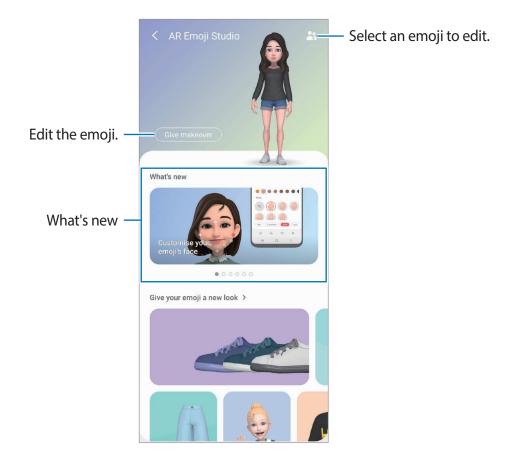
# **AR Emoji Studio**

Edit or decorate your emoji in the AR Emoji Studio. You can also create clothes with custom patterns and colours for your emoji.



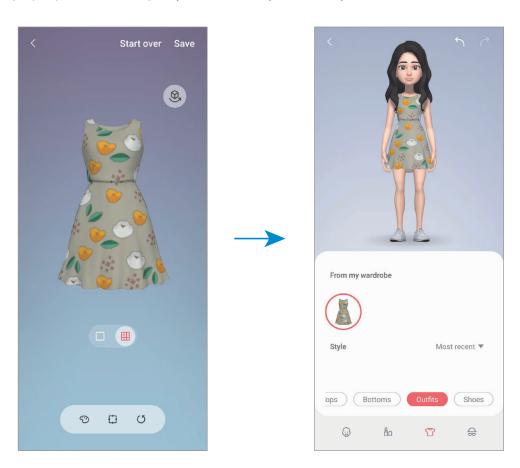
Available options may vary depending on the region or service provider.

Launch the AR Zone app and tap AR Emoji Studio. AR Emoji Studio will appear.



# Designing your emoji's clothes

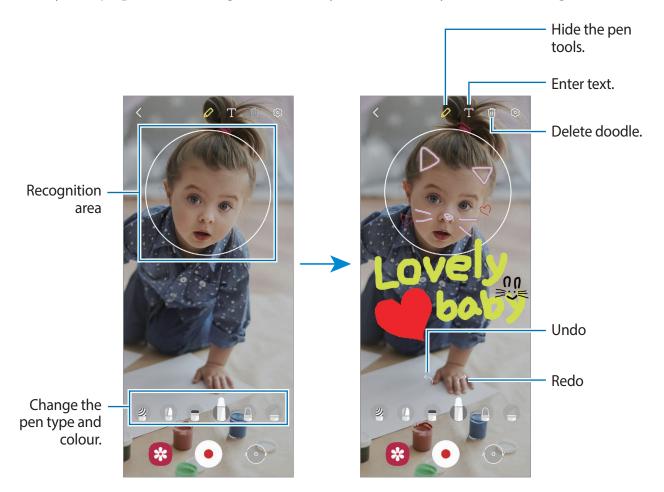
- 1 Launch the AR Zone app and tap AR Emoji Studio.
- 2 Tap Design your own clothes.
- 3 Select a clothes and select an image or pattern to use.
  If you tap Gallery, you can design clothes using images saved in the device.
- Design as you want and tap Save to save the clothes.
  When a pop up window, tap Try it on. Then you can try the clothes on.



#### **AR Doodle**

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

- Launch the AR Zone app and tap AR Doodle.When the camera recognises the subject, the recognition area will appear on the screen.
- 2 Write or draw in the recognition area.
  - If you switch to the rear camera, you can also write or draw outside the recognition area.
  - If you tap and then begin to doodle, you can record yourself doodling.



- 3 Tap to record a video.
- 4 Tap to stop recording the video.
  You can view and share the video in Gallery.

## **Deco Pic**

Capture photos or videos with various stickers.

- 1 Launch the AR Zone app and tap Deco Pic.
- 2 Select a sticker you want to use.



3 Tap O to take a photo or tap and hold O to record a video.
You can view and share the photos and videos that you have captured in Gallery.

# **Always On Display**

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

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

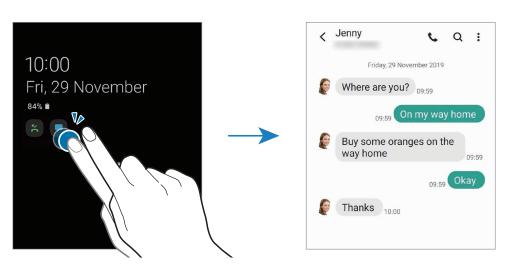
The Always On Display is set to appear only when you tap the screen. To change the settings to make it appear continuously or during a set time, launch the **Settings** app, tap **Lock screen**  $\rightarrow$  **Always On Display**, and then select a mode you want.



The brightness of the Always On Display may change automatically depending on the lighting conditions.

## Opening notifications on the Always On Display

When you receive message, missed call, or app notifications, notification icons will appear on the Always On Display. Double-tap a notification icon to view its notification.





If the screen is locked, you must unlock it to view notifications.

## **Deactivating the Always On Display feature**

Open the notification panel, swipe downwards, and then tap (Always On Display) to deactivate it. Alternatively, launch the Settings app, tap Lock screen, and then tap the Always On Display switch to deactivate it.

# **Edge lighting**

You can set the device to light up the edges of the screen and display a pop-up window when you receive notifications, such as new messages.

When a pop-up window appears while using an app, drag the window downwards to quickly view the content and perform available actions.

## Managing notifications to display as the edge lighting

- 1 Launch the **Settings** app, tap **Display** → **Edge screen** → **Edge lighting**, and then tap the switch to activate it.
- 2 Tap **Choose apps** and tap the switches next to apps to receive notifications as the edge lighting.

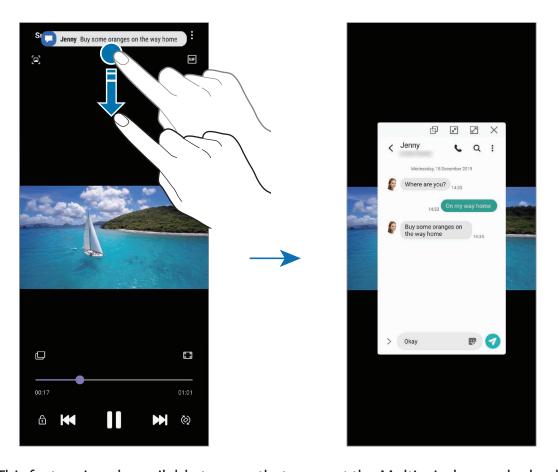


Some notifications may not display as the edge lighting depending on notification types.

#### Viewing notifications via the pop-up window

When you receive a notification with edge lighting, you can quickly view its content and perform available actions by opening the pop-up window. For example, if you receive a message while watching a video or playing a game, you can view the message and reply to it without switching the screen.

When you receive a notification with edge lighting while using an app, drag the notification downwards.





This feature is only available to apps that support the Multi window and edge lighting features. To view supported apps, launch the **Settings** app, tap **Display**  $\rightarrow$  **Edge** screen  $\rightarrow$  **Edge lighting**  $\rightarrow$  **Choose apps**.

# 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



Pop-up view

# Split screen view

1 While using an app, drag the Multi window tray towards the centre of the screen.

The apps list will appear.



If the Multi window tray is not visible, launch the **Settings** app, tap **Advanced features**, and then tap the **Multi window tray** switch to activate it.

2 Select an app from the list.
The selected app will launch on the lower window.

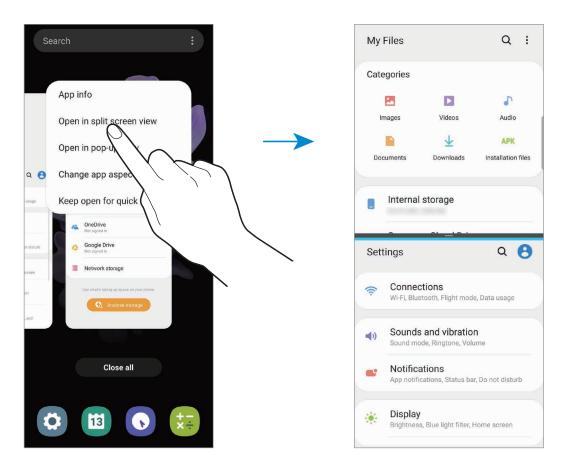


## Running recently used apps in the split screen view

You can run your recently use apps in the split screen view.

- 1 Tap the Recents button to open the list of recently used apps.
- 2 Swipe to the left or right, tap an app's icon, and then tap **Open in split screen view**. The selected app will launch in the upper window.

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



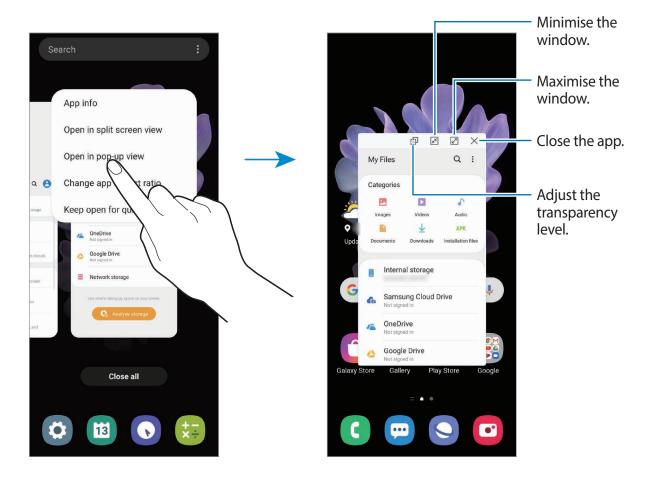
# Adjusting the window size

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

When you drag the bar between the app windows to the top or bottom edge of the screen, the window will be maximised.

# Pop-up view

- 1 Tap the Recents button to open the list of recently used apps.
- 2 Swipe to the left or right, tap an app's icon, and then tap **Open in pop-up view**. The app screen will appear in the pop-up view.



## Moving pop-up windows

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

# **Samsung Daily**

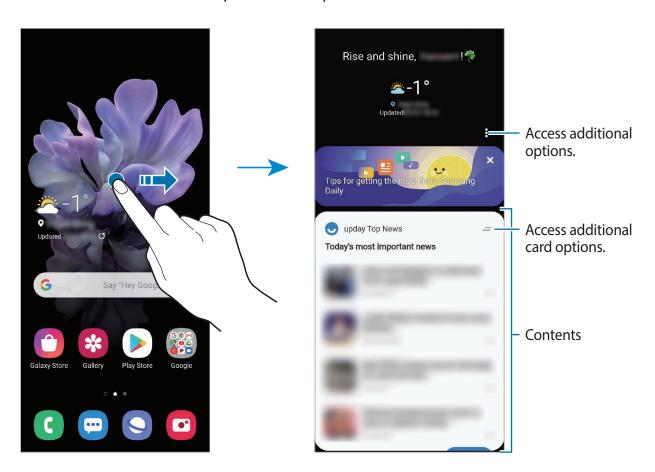
View the latest news and various content, such as videos and games.



- To use Samsung Daily, your device must be connected to a Wi-Fi or mobile network.
- To fully use this feature, you must sign in to your Samsung account.
- 1 On the Home screen, swipe to the right.

The Samsung Daily screen will appear.

When launching this feature for the first time or after performing a data reset, follow the on-screen instructions to complete the setup.



- To stop displaying a card on the list, tap = at the top of the card and tap Don't show again.
- To add or delete content to be shown as cards, tap Cards and tap the switches next to items to turn them on or off.
- To change the order of the cards, tap 
   • Cards → Reorder and drag 
   to another location.

Apps and features

2 Swipe upwards or downwards to view content.



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

3 To close Samsung Daily, swipe to the left on the screen or tap the Back button.

# Samsung Pay

#### Introduction

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

You can view more information, such as cards that support this feature at www.samsung.com/samsung-pay.





- To use this feature, you must sign in to your Samsung account and register your biometric data. Refer to Samsung account and Fingerprint recognition for more information.
- To make payments with Samsung Pay, the device may be required a connection to a Wi-Fi or mobile network depending on the region.
- This app's availability and supported features may vary depending on the region or service provider.
- The procedures for the initial setup and card registration may vary depending on the region or service provider.
- Magnetic secure transmission (MST) may not be supported depending on the region.

# **Setting up Samsung Pay**

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

- 1 Launch the **Samsung Pay** app.
- 2 Sign in to your Samsung account.
- 3 Read and agree to the terms and conditions.
- 4 Register your fingerprint to use when making payments.
- 5 Create a PIN to use when making payments.



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

# **Registering cards**

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

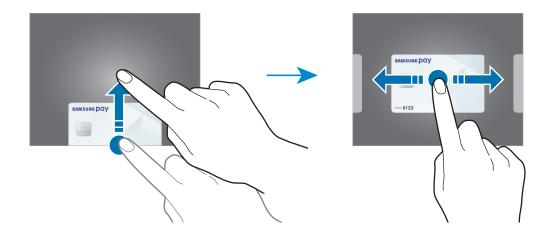


You can check the cards that support this feature from the Samsung Pay website (www.samsung.com/samsung-pay).

Launch the **Samsung Pay** app and follow the on-screen instructions to complete your card registration.

# **Making payments**

1 Tap and hold a card image at the bottom of the screen and drag it upwards. Alternatively, launch the **Samsung Pay** app. Then, on the cards list, swipe to the left or right and select a card to use.



- 2 Scan your fingerprint.
  Alternatively, enter the payment PIN you set when setting up the Samsung Pay.
- 3 Touch the lower part of your device's back to the card reader.
  When the card reader recognises the card information, the payment will be processed.



- Payments may not be processed depending on your network connection.
- The verification method for payments may vary depending on the card readers.

## **Cancelling payments**

You can cancel payments by visiting the place where you made them.

On the cards list, swipe to the left or right to select the card you used. Follow the on-screen instructions to complete payment cancellation.

# Samsung Health

## Introduction

Samsung Health helps you manage your wellness and fitness. Set fitness goals, check your progress, and keep track of your overall wellness and fitness. You can also compare your step count records with other Samsung Health users, compete with your friends, and view health tips.

# **Using Samsung Health**

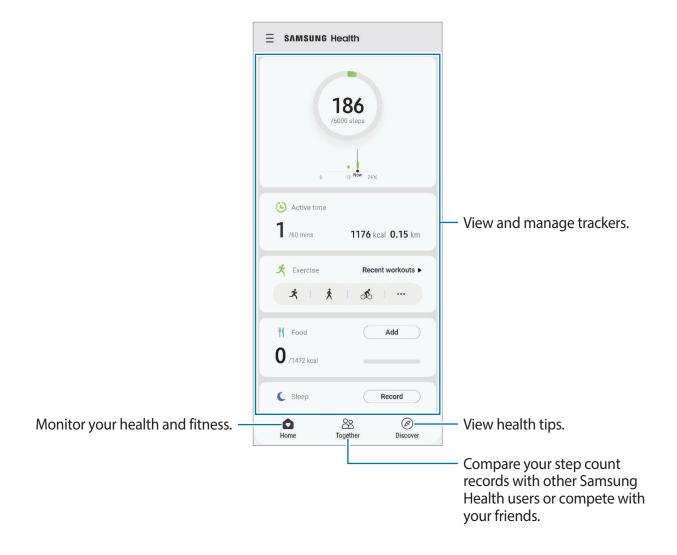
Launch the **Samsung Health** app. When running this app for the first time or restart it after performing a data reset, follow the on-screen instructions to complete the setup.



Some features may not be available depending on the region.

Apps and features

To add items to the Samsung Health home screen, tap **Manage items** at the bottom of the trackers list and tap  $\bigoplus$  on the items to add.



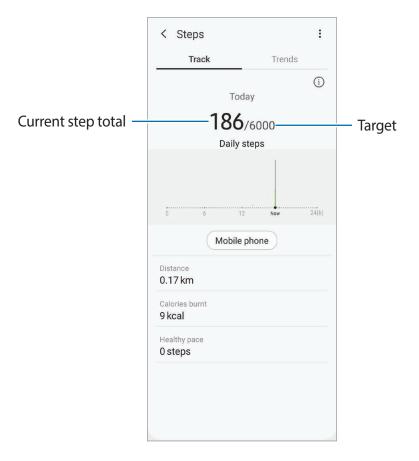
# **Together**

Together allows you to set up step count goals and compete with your friends. You can invite friends to walk together, set target step counts, compete in challenges, and view your ranking.

On the Samsung Health home screen, tap Together.

#### **Steps**

The device counts the number of steps you take and measures the distance travelled. On the Samsung Health home screen, tap the steps tracker.





- You may experience a brief delay while the steps tracker monitors your steps and then displays your step count. You may also experience a brief delay before the pop-up window indicates that your goal has been reached.
- If you use the steps tracker while travelling by car or train, vibration may affect your step count.

#### **Additional information**

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

# Samsung Members

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



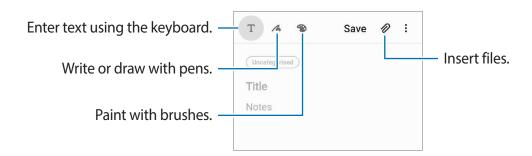
To submit your feedback or post your comments, you must sign in to your Samsung account. Refer to Samsung account for more information.

# **Samsung Notes**

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

### **Creating notes**

- 1 Launch the **Samsung Notes** app and tap 1.
- 2 Select an input method from the toolbar at the top of the screen and compose a note.



When you are finished composing the note, tap **Save**.

#### **Deleting notes**

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

# **Galaxy Wearable**

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

Launch the **Galaxy Wearable** app.

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

# **Calendar**

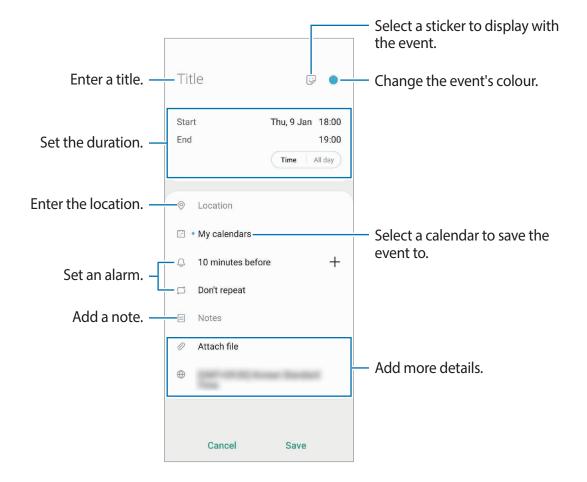
Manage your schedule by entering upcoming events or reminders in your planner.

#### **Creating events**

1 Launch the Calendar app and tap 
 or double-tap a date.

If the date already has saved events or tasks in it, tap the date and tap 
 ...

#### 2 Enter event details.



3 Tap **Save** to save the event.

#### **Creating reminders**

You can create tasks as reminders and receive notifications at the preset time or location for each reminder. Launch the **Calendar** app and tap  $\longrightarrow$  **Reminder**. Refer to Reminder for more information.

#### Syncing events with your accounts

- 1 Launch the **Settings** app, tap **Accounts and backup** → **Accounts**, and then select the account to sync with.
- 2 Tap Sync account and tap the Calendar switch to activate it.
  For the Samsung account, tap <sup>•</sup> → Sync settings and tap the Calendar switch to activate it.

Apps and features

To add accounts to sync with, launch the **Calendar** app and tap  $\equiv \to \Leftrightarrow \to \mathsf{Add}$  new account. Then, select an account to sync with and sign in. When an account is added, a blue circle is displayed next to the account name.

# Reminder

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



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

# **Starting Reminder**

Launch the Calendar app and tap  $\longrightarrow$  Reminder. The Reminder screen will appear and the Reminder app icon ( $\triangle$ ) will be added to the Apps screen.

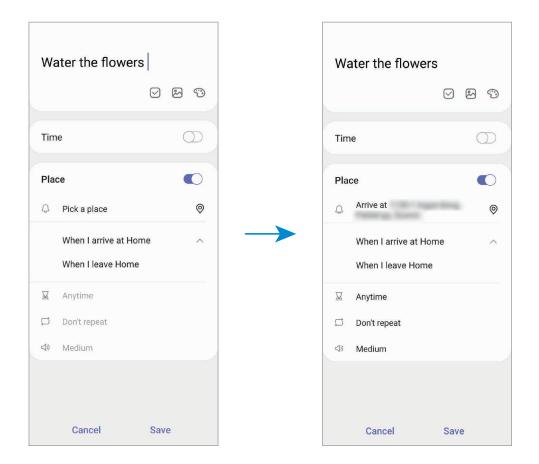
# **Creating reminders**

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

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

- 1 Launch the **Reminder** app.
- 2 Tap Write a reminder or + and enter 'Water the flowers'.
- 3 Tap Place  $\rightarrow$  Pick a place and set the location to home.

# 4 Tap When I arrive at $\rightarrow$ Done.



Tap Save to save the reminder.When you arrive at home, the 'Water the flowers' notification will appear.

# **Completing reminders**

Mark reminders that you do not need to be reminded of as complete.

On the reminders list, select a reminder and tap Complete.

# **Restoring reminders**

Restore reminders that have been completed.

- 1 On the reminders list, tap  $\longrightarrow$  Completed  $\longrightarrow$  Edit.
- 2 Tick items to restore and tap Restore.
  Reminders will be added to the reminders list and you will be reminded at the preset times.

#### **Deleting reminders**

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

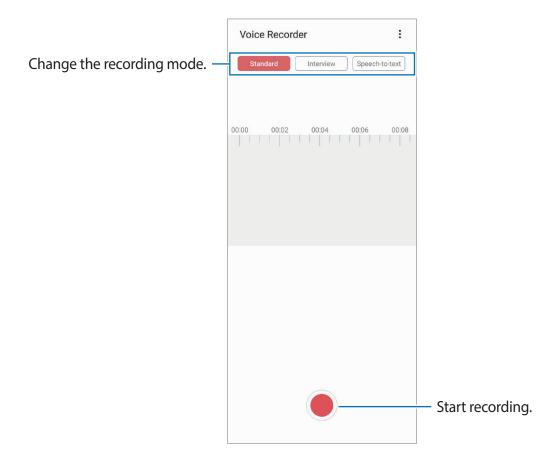
# **Voice Recorder**

#### Introduction

Use different recording modes for various situations. The device can convert your voice to text and distinguish between sound sources.

# Making voice recordings

- 1 Launch the **Voice Recorder** app.
- 2 Tap 
  to start recording. Speak into the microphone.
  - Tap to pause recording.
  - While making a voice recording, tap **BOOKMARK** to insert a bookmark.



Apps and features

- 3 Tap to finish recording.
- 4 Enter a file name and tap Save.

# Changing the recording mode

Launch the Voice Recorder app.

Select a mode from the top of the voice recorder screen.

- Standard: This is the normal recording mode.
- Interview: The device records sound from the top and the bottom of the device at a high volume while reducing the volume of sound from the sides.
- **Speech-to-text**: The device records your voice and simultaneously converts it to on-screen text. For best results, keep the device near your mouth and speak loudly and clearly in a quiet place.



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

# Playing selected voice recordings

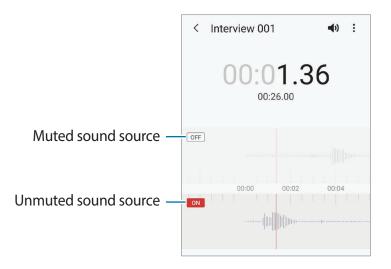
When you review interview recordings, you can mute or unmute certain sound sources in the recording.

- 1 Launch the **Voice Recorder** app.
- 2 Tap **List** and select a voice recording made in interview mode.

Apps and features

3 To mute certain sound sources, tap on for the corresponding direction that sound is to be muted.

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



# **My Files**

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

Launch the My Files app.

View files that are stored in each storage.

To check for unnecessary data and free up the device's storage, tap **Analyse storage**.

To search for files or folders, tap Q.

# Clock

#### Introduction

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

#### Alarm

Launch the **Clock** app and tap **Alarm**.

# **Setting alarms**

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

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

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

# **Stopping alarms**

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

# **Deleting alarms**

Tap and hold an alarm, tick alarms to delete, and then tap **Delete**.

#### **World Clock**

Launch the Clock app and tap World Clock.

#### **Creating clocks**

Tap +, enter a city name or select a city from the map, and then tap Add.

To use the time zone converter, tap  $\longrightarrow$  Time zone converter.

# **Deleting clocks**

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

# **Stopwatch**

- 1 Launch the Clock app and tap Stopwatch.
- 2 Tap Start to time an event.To record lap times while timing an event, tap Lap.
- 3 Tap **Stop** to stop timing.
  - To restart the timing, tap **Resume**.
  - To clear lap times, tap **Reset**.

#### **Timer**

- Launch the Clock app and tap Timer.
   To add a frequently used timer, tap +, set the duration and name, and then tap Add.
- 2 Set the duration and tap Start.To open the keypad to enter the duration, tap the duration input field.
- 3 Tap **Dismiss** when the timer goes off.

# **Calculator**

Perform simple or complex calculations.

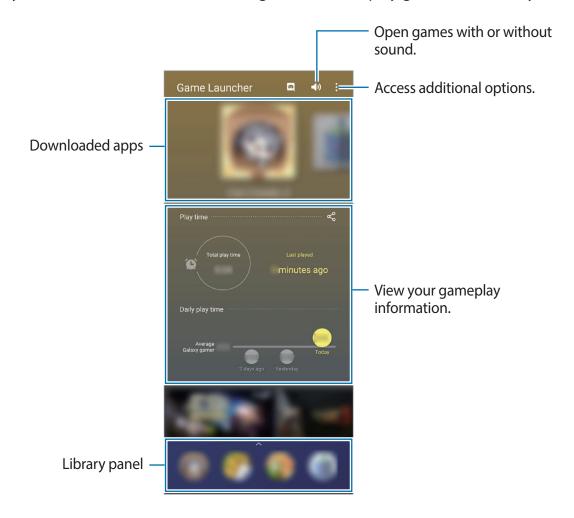
Launch the Calculator app.

- Use the unit conversion tool. You can convert various values, such as area, length, or temperature, into other units.

# **Game Launcher**

# Introduction

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



# **Using Game Launcher**

1 Launch the **Game Launcher** app.



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

2 Drag the Library panel upwards and tap a game.



Games downloaded from **Play Store** and **Galaxy Store** will be automatically shown on the Game Launcher screen. If you cannot see your games, drag the Library panel upwards and tap  $\stackrel{\bullet}{\underline{}} \rightarrow$  **Add apps**.

# Removing a game from Game Launcher

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

# Changing the performance mode

You can change the game performance mode.

Launch the **Game Launcher** app, tap  $\stackrel{\bullet}{\bullet}$   $\rightarrow$  **Game performance**  $\rightarrow$  **Game performance**, and then select the mode you want.

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



Battery power efficiency may vary by game.

# **Game Booster**

#### Introduction

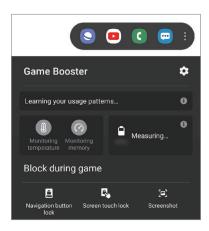
Game Booster lets you play games in a better environment and provides you with useful options via the Game Booster panel.

# **Using Game Booster**

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



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



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

# Launching apps in pop-up windows while playing games

You can launch apps in pop-up windows while playing a game.

Tap 🗞 and select an app from the apps list.

To edit the apps list, tap ...

# **Kids Home**

#### Introduction

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

# **Using Kids Home**

Open the notification panel, swipe downwards, and then tap (Kids Home) to activate it. The Kids Home screen will appear. When starting Kids Home for the first time or after performing a data reset, follow the on-screen instructions to complete the setup.

On the Kids Home screen, select the app you want to use.



Apps and features



Your preset screen lock method or your created PIN will be used when activating the **Parental control** feature or closing Kids Home.

# Using parental control features

You can configure the settings for Kids Home and view the usage history.

On the Kids Home screen, tap  $\stackrel{\bullet}{\longrightarrow}$  Parental control and enter your unlock code.

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

# **Closing Kids Home**

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

# **SmartThings**

#### Introduction

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

- **Connecting with nearby devices**: Connect with nearby devices, such as Bluetooth headsets or wearable devices, easily and quickly.
- Registering and controlling home appliances, TVs, and IoT products: Register smart refrigerators, washers, air conditioners, air purifiers, TVs, and Internet of Things (IoT) products on your smartphone, and view their status or control them from your smartphone's screen.
- **Receiving notification**: Receive notifications from connected devices on your smartphone. For example, when the laundry is finished, you can receive a notification on your smartphone.



- To use SmartThings, your smartphone and other devices must be connected to a Wi-Fi or mobile network. To fully use SmartThings, you must sign in to your Samsung account.
- The devices you can connect may vary depending on the region or service provider. Available features may differ depending on the connected device.
- Connected devices' own errors or defects are not covered by the Samsung warranty. When errors or defects occur on the connected devices, contact the device's manufacturer.

# Connecting to nearby devices

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



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

- 1 Launch the **SmartThings** app.
- 2 Tap Add device or tap  $+ \rightarrow$  Device.

- 3 Tap Scan.
- 4 Select a device from the list and connect to it by following the on-screen instructions.

# Using home appliances, TVs, and IoT products

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

# **Connecting devices**

- 1 Launch the **SmartThings** app.
- 2 Tap Add device or tap  $+ \rightarrow$  Device.
- 3 Select a device type.Or, tap Scan or tap the search field to search for devices.
- 4 Follow the on-screen instructions to connect devices.

# Viewing and controlling connected devices

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

- Launch the SmartThings app.The list of connected devices will appear.
- View the status of devices on the list.
  To control the devices, select a device. When the device control the device control the devices.

To control the devices, select a device. When the device controller supplied with the selected device is downloaded, you can control the device.

# Adding devices and scenes by locations

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

#### **Adding locations**

- 1 Launch the SmartThings app and tap  $\longrightarrow \longrightarrow Add$  location.
- 2 Enter the location name.
  - To set a location, tap **Geolocation** to select a location on the map and tap **Done**.
  - To add rooms to the location, tap Rooms, tick rooms you want to add, and then tap Done.
- 3 Tap Done.

Your location will be added.

To add devices to the location, tap **Add device** or tap  $+ \to$  **Device** and follow the on-screen instructions to register devices.

#### **Adding scenes**

Add a scene and register devices to it to control multiple devices at the same time.

- 1 Launch the **SmartThings** app.
- 2 Tap  $\longrightarrow \longrightarrow$  and select a location.
- 3 Tap  $\longrightarrow$  Scenes  $\rightarrow$  Add scene.
- 4 Enter the scene name.
- 5 Tap  $\oplus$  under **Actions** to add actions to perform.
- 6 Tap Save.

#### **Adding automations**

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

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

- 1 Launch the **SmartThings** app.
- 2 Tap  $\longrightarrow$   $\longrightarrow$  and select a location.
- 3 Tap  $\longrightarrow$  Automations  $\rightarrow$  Add automation.
- 4 Tap  $\oplus$  under **If**, set the activation conditions for the automation, and then tap **Next**.
- 5 Tap  $\oplus$  under **Then**, set actions to perform, and then tap **Done**.
- 6 Enter the automation name and tap **OK**.

# **Receiving notifications**

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

To set devices to receive notifications, launch the **SmartThings** app, tap  $\longrightarrow \diamondsuit \to \mathsf{Notifications}$ , and then tap the switches next to the devices you want.

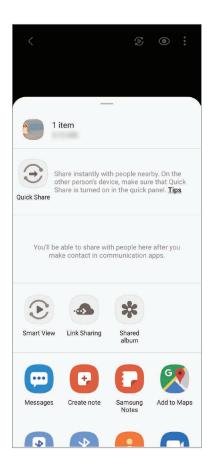
# **Sharing content**

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



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

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





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

#### **Quick Share**

Share content with nearby devices via Wi-Fi Direct or Bluetooth, or with SmartThings supported devices.



This feature does not support sharing videos with TVs or SmartThings supported devices. To watch videos on TV, use the Smart View feature.

- 1 Launch the **Gallery** app and select an image.
- 2 On the other device, open the notification panel, swipe downwards, and then tap (Quick Share) to activate it.
- 3 Tap  $\ll$  and select a device to transfer the image to.
- 4 Accept the file transfer request on the other device.

#### Setting who can find your device

Set who is allowed to find and send content to your device.

- 1 Open the notification panel, swipe downwards, and then tap (Quick Share) to activate it.
- 2 Tap and hold (Quick Share).
  The Quick Share settings screen will appear.
- 3 Select an option under Who can share with you?.
  - Contacts only: Allow only your contacts to share with your device.
  - Everyone: Allow any nearby devices to share with your device.

#### **Smart View**

View your device's displayed content on a large screen by connecting your device to a screen mirroring-enabled TV or monitor.



When you play a video with Smart View, the resolution may vary depending on the TV model.

- 1 Launch the **Gallery** app and select an image.
- 2 Tap ← Smart View and select a device to mirror your device's screen or display content.

# **Link Sharing**

Share large files. Upload files to the Samsung storage server and share them with others via a Web link.



To use this feature, you must sign in to your Samsung account.

- 1 Launch the **Gallery** app and select an image.
- 2 Tap  $\ll$   $\rightarrow$  Link Sharing. The link for the image will be created.
- 3 Select a sharing option.

#### Shared album

Create a shared album to share photos or videos with others, and download your files whenever you want.



- To use this feature, you must sign in to your Samsung account.
- When you play a high-resolution video from a shared album, the video connection may drop depending on the network speed.
- Content that is larger than 1 GB cannot be shared to a shared album.
- 1 Launch the **Gallery** app and select an image.
- 2 Tap  $\ll \rightarrow$  Shared album.
- 3 Select an album to share.

If there is no album to share, tap **Create shared album** and follow the on-screen instructions to create an album.

# **Music Share**

The Music Share feature allows you to easily share your Bluetooth speaker or headset that is already connected to your device with others. For example, you can play music stored on your friend's smartphone via your Bluetooth car stereo while keeping it and your smartphone connected.



This feature is available only on devices that support the Music Share feature.



**Your smartphone** Launch the **Settings** app, tap **Connections** → **Bluetooth**, tap the switch to activate it, and then connect the smartphone to your Bluetooth car stereo.



If the smartphone and your Bluetooth car stereo are already connected, proceed to the next step.

**Your smartphone** Open the notification panel, swipe downwards, and then tap (Music Share) to activate it.

You can use additional features, such as setting who to share your device with, by launching the **Settings** app and tapping **Connections**  $\rightarrow$  **Bluetooth**  $\rightarrow$   $\stackrel{\bullet}{\bullet}$   $\rightarrow$  **Advanced**  $\rightarrow$  **Music Share**.

**Friend's smartphone** Open the notification panel, swipe downwards, and then tap (**Bluetooth**) to activate it.

The list of the devices that can be connected will appear.

4 Friend's smartphone Select your Bluetooth car stereo connected to your smartphone.

Apps and features

- **Your smartphone** Accept the connection request.

  Your friend's smartphone and your smartphone will be connected.
- **Friend's smartphone** Play a music file.

The music will play on your Bluetooth car stereo.

# **Link to Windows**

#### Introduction

You can connect your device to a Windows PC to instantly access your device's data, such as photos or messages, on the computer.

When calls or messages come in, you can receive them on the computer.



- This feature is only available on Windows 10 version 1803 or higher, and it is recommended to use the latest version to fully use this feature.
- A Microsoft account is required to use this feature. When you create a Microsoft account, you can sign in to all Microsoft devices and services, such as Microsoft Office programs and Windows 10.

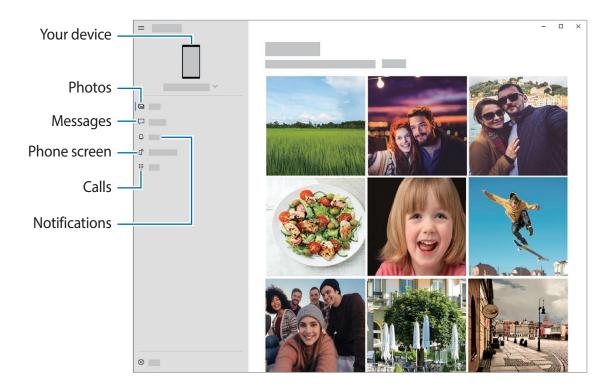
# Connecting to a computer

- **Device** Launch the **Settings** app and tap **Advanced features** → **Link to Windows**.
- **Device** Tap **Link your phone and PC** → **Sign in with Microsoft**, sign in to your Microsoft account, and then tap **Continue**.
- **Computer** Launch the **Microsoft Store** app, search and download the **Your Phone** app, and then launch it.
- 4 **Device** Accept the connection request.

Your device and the computer will be connected.

# Viewing data and notifications from your device on the computer

1 Launch the **Your Phone** app on the computer.





Available features and menus may vary depending on the software version or model.

- 2 Select a category you want.
  - Photos: View the photos saved in your device.
  - Messages: View messages saved in your device or send new messages.
  - Notifications: View notifications from your device on the computer.
  - **Phone screen**: Mirror your device's screen on the computer screen. You can also use the apps and features in the device.
  - Calls: Make or answer calls.

# **Samsung Global Goals**

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

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

# **Google apps**

Google provides entertainment, social network, and business apps. You may require a Google account to access some apps.

To view more app information, access each app's help menu.



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

#### **Chrome**

Search for information and browse webpages.

#### **Gmail**

Send or receive emails via the Google Mail service.

# Maps

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

#### **YT Music**

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

# **Play Movies & TV**

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

Apps and features

# **Drive**

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

# YouTube

Watch or create videos and share them with others.

#### **Photos**

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

# Google

Search quickly for items on the Internet or your device.

#### Duo

Make a simple video call.

# Settings

# Introduction

Customise device settings. You can make your device more personalised by configuring various setting options.

Launch the **Settings** app.

To search for settings by entering keywords, tap Q.

# **Connections**

# **Options**

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

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

- Wi-Fi: Activate the Wi-Fi feature to connect to a Wi-Fi network and access the Internet or other network devices. Refer to Wi-Fi for more information.
- **Bluetooth**: Use Bluetooth to exchange data or media files with other Bluetooth-enabled devices. Refer to Bluetooth for more information.
- NFC and payment: Set the device to allow you to read near field communication (NFC)
  tags that contain information about products. You can also use this feature to make
  payments and buy tickets for transportation or events after downloading the required
  apps. Refer to NFC and payment for more information.
- **Flight mode**: Set the device to disable all wireless functions on your device. You can use only non-network services.



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

• Mobile networks: Configure your mobile network settings.

- Data usage: Keep track of your data usage amount and 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 for more information.
  - You can also select apps to always use mobile data even when your device is connected to a Wi-Fi network. Refer to Mobile data only apps for more information.
- SIM card manager (dual SIM models): Activate your SIM or USIM cards and customise the SIM card settings. Refer to SIM card manager (dual SIM models) for more information.
- Mobile Hotspot and Tethering: Use the device as a mobile hotspot to share the
  device's mobile data connection with other devices when the network connection is not
  available. Connections can be made via Wi-Fi, USB, or Bluetooth. Refer to Mobile Hotspot
  and Tethering for more information.
- More connection settings: Customise settings to control other features. Refer to More connection settings for more information.

#### Wi-Fi

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

# Connecting to a Wi-Fi network

- 1 On the Settings screen, tap Connections  $\rightarrow$  Wi-Fi and tap the switch to activate it.
- Select a network from the Wi-Fi networks list.
  Networks that require a password appear with a lock icon. Enter the password and tap Connect.



- Once the device connects to a Wi-Fi network, the device will reconnect to that network each time it is available without requiring a password. To prevent the device from connecting to the network automatically, tap 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.

#### 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  $\rightarrow$  Wi-Fi and tap the switch to activate it.
- 2 Tap  $\longrightarrow$  Wi-Fi Direct.

The detected devices are listed.

If the device you want to connect to is not in the list, request that the device turns on its Wi-Fi Direct feature.

3 Select a device to connect to.

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

# Sending and receiving data

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

- 1 Launch the **Gallery** app and select an image.
- 2 Tap  $\ll \rightarrow$  Wi-Fi Direct and select a device to transfer the image to.
- 3 Accept the Wi-Fi Direct connection request on the other device.

  If the devices are already connected, the image will be sent to the other device without the connection request procedure.

#### **Ending the device connection**

- 1 On the Settings screen, tap Connections  $\rightarrow$  Wi-Fi.
- $2 \quad \mathsf{Tap} \ \, \overset{\bullet}{\bullet} \ \, \to \mathsf{Wi-Fi\ Direct}.$

The device displays the connected devices in the list.

Tap the device name to disconnect the devices.

#### **Bluetooth**

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



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

# Pairing with other Bluetooth devices

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

  The detected devices will be listed.
- 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.

#### 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.

#### **Unpairing Bluetooth devices**

- 1 On the Settings screen, tap Connections → Bluetooth.
  The device displays the paired devices in the list.
- 2 Tap 🛊 next to the device name to unpair.
- 3 Tap Unpair.

# NFC and payment

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



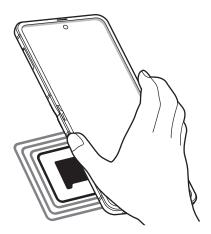
The device contains a built-in NFC antenna. Handle the device carefully to avoid damaging the NFC antenna.

# Reading information from NFC tags

Use the NFC feature to read product information from NFC tags.

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

Place the lower part of your device's back near an NFC tag.
The information from the tag appears.





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

# Making payments with the NFC feature

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

- 1 On the Settings screen, tap **Connections** and tap the **NFC and payment** switch to activate it.
- 2 Touch the lower part of your device's back to the NFC card reader.

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



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

Settings

#### Sending data with the NFC feature

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

- 1 On the Settings screen, tap **Connections** → **NFC and payment** and tap the switch to activate it.
- 2 Tap the **Android Beam** switch to activate it.
- 3 Select an item and touch the other device's NFC antenna to the lower part of your device's back.
- 4 When **Touch to beam.** appears on the screen, tap your device's screen to send the item.



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

#### Data saver

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

On the Settings screen, tap **Connections**  $\rightarrow$  **Data usage**  $\rightarrow$  **Data saver** and tap the switch to activate it.

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





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

# Mobile data only apps

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

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

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



You may incur additional charges when using this feature.

# SIM card manager (dual SIM models)

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

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

- Calls: Select the eSIM or nano-SIM card for voice calls.
- Text messages: Select the eSIM or nano-SIM card for messaging.
- Mobile data: Select the eSIM or nano-SIM card for data services.
- Confirm SIM card for calls: Set the device to ask to use the eSIM or nano-SIM card for the next call when you make a call without using your preferred eSIM or nano-SIM card for calls.
- **Dual SIM always on:** Set the device to allow incoming calls from the eSIM or nano-SIM card that is not being used during a call.



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

- Lock mobile plan settings: Set the device to prevent changes to the eSIM mobile plan settings.
- Remove all mobile plans: Remove all mobile plans of the activated eSIM.

# **Mobile Hotspot and Tethering**

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

On the Settings screen, tap **Connections**  $\rightarrow$  **Mobile Hotspot and Tethering**.



You may incur additional charges when using this feature.

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

# Using the mobile hotspot

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

- 1 On the Settings screen, tap Connections → Mobile Hotspot and Tethering → Mobile Hotspot.
- 2 Tap the switch to activate it.

The sicon appears on the status bar. Other devices can find your device in the Wi-Fi networks list.

To set a password for the mobile hotspot, tap ♣ → Configure Mobile Hotspot and select the level of security. Then, enter a password and tap Save.

Settings

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

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



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

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

#### **Auto Hotspot**

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

Tap the **Auto Hotspot** switch to activate it.

# More connection settings

Customise settings to control other connection features.

On the Settings screen, tap **Connections**  $\rightarrow$  **More connection settings**.

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

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 Search for a printer plug-in in **Play Store**.
- 3 Select a printer plug-in and install it.
- 4 Select the installed printer plug-in.

  The device will automatically search for printers that are connected to the same Wi-Fi network as your device.
- 5 Select a printer to add.



To add printers manually, tap  $\longrightarrow$  Add printer.

# **Printing content**

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



Printing methods may vary depending on the content type.

#### MirrorLink

You can display your device's screen on the vehicle's head unit monitor.

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



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

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

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

- 1 Pair your device with a vehicle via Bluetooth.

  Refer to Pairing with other Bluetooth devices for more information.
- 2 Connect your device to the vehicle using a USB cable.
  When they are connected, access your device's MirrorLink apps on the head unit monitor.

#### **Ending the MirrorLink connection**

Unplug the USB cable from your device and the vehicle.

## Sounds and vibration

## **Options**

Change settings for various sounds on the device.

On the Settings screen, tap **Sounds and vibration**.

- Sound mode: Set the device to use sound mode, vibration mode, or silent mode.
- Vibrate while ringing: Set the device to vibrate and play a ringtone for incoming calls.
- Temporary mute: Set the device to use silent mode for a certain period.
- Ringtone: Change the call ringtone.
- Notification sound: Change the notification sound.

- **System sound**: Change the sound to use for certain actions, such as charging the device.
- Volume: Adjust the device's volume level.
- **Vibration pattern**: Select a vibration pattern.
- **Vibration intensity**: Adjust the force of the vibration notification.
- **System sound/vibration control**: Set the device to sound or vibrate for actions, such as controlling the touchscreen.
- Sound quality and effects: Set the device's sound quality and effects. Refer to Dolby Atmos (surround sound) for more information.
- **Separate app sound**: Set the device to play media sound from a specific app separately on the other audio device. Refer to Separate app sound for more information.

## **Dolby Atmos (surround sound)**

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

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



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

## Separate app sound

Set the device to play media sound from a specific app on the connected Bluetooth speaker or headset separate from the sound of other apps.

For example, you can listen to the Navigation app through your device's speaker while listening to playback from the Music app through the vehicle's Bluetooth speaker.

- 1 On the Settings screen, tap **Sounds and vibration** → **Separate app sound** and tap the switch to activate it.
- 2 Select an app to play media sounds separately and tap the Back button.
- 3 Select a device for playing the selected app's media sound.

## **Notifications**

## **Options**

Change the notification settings.

On the Settings screen, tap Notifications.

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

### App icon badges

You can set the device to display a number or dot badge on apps that have notifications. You can also set it to display no badges.

- 1 On the Settings screen, tap **Notifications** → **App icon badges** and tap the switch to activate it.
- 2 Select an option under **Badge style**.

If you activate the **Notifications on app icons** feature, you can view the notification by tapping and holding the app icon.

# **Display**

### **Options**

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. Refer to Dark mode settings for more information.
- 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.
- Blue light filter: Activate the blue light filter and change the filter settings. Refer to Blue light filter for more information.
- **Screen mode**: Change the screen mode to adjust the display's colour and contrast. Refer to Changing the screen mode or adjusting the display colour for more information.
- Font size and style: Change the font size and style. Refer to Font size and style for more information.
- Screen zoom: Change the screen zoom setting.
- **Full screen apps**: Select apps to use with the full screen aspect ratio. You can also set the device to hide the front camera from the screen.
- **Screen timeout**: Set the length of time the device waits before turning off the display's backlight.
- Home screen: Configure settings for the Home screen, such as the screen grid or layout.
- Easy mode: Switch to easy mode to display larger icons and apply a simpler layout to the Home screen.
- **Edge screen**: Change the settings for the edge lighting. Refer to Edge lighting for more information.
- Navigation bar: Change the navigation bar settings. Refer to Navigation bar (soft buttons) for more information.
- Accidental touch protection: Set the device to prevent the screen from detecting touch input when it is in a dark place, such as a pocket or bag.
- **Touch sensitivity**: Increase the touch sensitivity of the screen for use with screen protectors.

- Show charging information: Set the device to display the remaining battery percentage and the estimated time until it is fully charged when the screen is off.
- **Screensaver**: Set the device to launch a screensaver when the device is charging. Refer to Screensaver for more information.

## Dark mode settings

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



- The dark theme may not be applied in some apps.
- You can quickly activate or deactivate dark mode on the notification panel. Open the notification panel, swipe downwards, and then tap (Dark mode).
- 1 On the Settings screen, tap **Display** and tap **Dark** to activate it.
- 2 To set the schedule to apply dark mode to the screen, tap **Dark mode settings**, tap the **Turn on as scheduled** switch to activate it, and then select an option.
  - Sunset to sunrise: Set the device to turn on dark mode at night and turn it off in the morning based on your current location.
  - Custom schedule: Set a specific time to turn on and off dark mode.

## Blue light filter

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

- 1 On the Settings screen, tap **Display** → **Blue light filter** and tap the **Turn on now** switch to activate it.
- 2 Drag the adjustment bar to adjust the filter's opacity.
- 3 To set the schedule to apply the blue light filter to the screen, tap the **Turn on as scheduled** switch to activate it and select an option.
  - Sunset to sunrise: Set the device to apply the blue light filter at night and turn it off in the morning based on your current location.
  - Custom schedule: Set a specific time to apply the blue light filter.

## Changing the screen mode or adjusting the display colour

Change the screen mode or adjust the display colour to your preference.

#### Changing the screen mode

On the Settings screen, tap **Display**  $\rightarrow$  **Screen mode** and select a mode you want.

- **Vivid**: This optimises the colour range, saturation, and sharpness of your display. You can also adjust the display colour balance by colour value.
- Natural: This adjusts the screen to a natural tone.



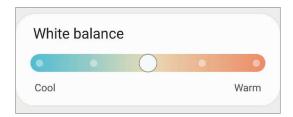
- You can adjust the display colour only in **Vivid** mode.
- Vivid mode may not be compatible with third-party apps.
- You cannot change the screen mode while applying the blue light filter.

#### Optimising the full screen colour balance

Optimise the display colour by adjusting the colour tones to your preference.

On the Settings screen, tap **Display**  $\rightarrow$  **Screen mode**  $\rightarrow$  **Vivid** and adjust the colour adjustment bar under **White balance**.

When you drag the colour adjustment bar towards **Cool**, the blue colour tone will increase. When you drag the bar towards **Warm**, the red colour tone will increase.



#### Adjusting the screen tone by colour value

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

- 1 On the Settings screen, tap **Display**  $\rightarrow$  **Screen mode**  $\rightarrow$  **Vivid**.
- 2 Tap Advanced settings.
- Adjust the **R** (Red), **G** (Green), or **B** (Blue) colour bar to your preference. The screen tone will be adjusted.

## Font size and style

Change the font size and style.

- 1 On the Settings screen, tap **Display**  $\rightarrow$  **Font size and style**.
- Change the font style and boldness setting and drag the adjustment bar under Font size to change the size.



#### Screensaver

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

- 1 On the Settings screen, tap **Display** → **Screensaver**.
- 2 Select an option.

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

- 3 Tap to select albums for displaying images.
- When you are finished, tap the Back button.
  To preview the selected option, tap Preview.



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

# Wallpaper

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

On the Settings screen, tap Wallpaper.

## **Themes**

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

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

- Themes: Change the device's theme.
- Wallpapers: Change the wallpaper settings for the Home screen and the locked screen.
- **Icons**: Change the icon style.
- AODs: Select an image to display on the Always On Display.

## Lock screen

### **Options**

Change the settings for the locked screen.

On the Settings screen, tap Lock screen.



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

- Screen lock type: Change the screen lock method.
- Smart Lock: Set the device to unlock itself when trusted locations or devices are detected. Refer to Smart Lock for more information.
- Secure lock settings: Change screen lock settings for the selected lock method.
- Always On Display: Set the device to display information while the screen is turned off.
   Refer to Always On Display for more information.

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

#### **Smart Lock**

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

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



- This feature will be available to use after you set a screen lock method.
- If you do not use your device for four hours or when you turn on the device, you must unlock the screen using the pattern, PIN, or password you set.
- 1 On the Settings screen, tap Lock screen → Smart Lock.
- 2 Unlock the screen using the preset screen lock method.
- 3 Select an option and follow the on-screen instructions to complete the setup.

# **Biometrics and security**

### **Options**

Change the settings for securing the device.

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

- **Face recognition**: Set the device to unlock the screen by recognising your face. Refer to Face recognition for more information.
- **Fingerprints**: Register your fingerprints to unlock the screen. Refer to Fingerprint recognition for more information.
- **Biometrics preferences**: Change the settings for biometric data.
- **Biometrics security patch**: View the version of the biometrics security patch and check for updates.
- Google Play Protect: Set the device to check for harmful apps and behaviour and warn about potential harm and remove them.
- Find My Mobile: Activate or deactivate the Find My Mobile feature. Access the Find My Mobile website (findmymobile.samsung.com) to track and control your lost or stolen device.
- Security update: View the version of your device's software and check for updates.
- Google Play system update: View the Google Play system version and check for updates.



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

- Samsung Pass: Verify your identity easily and securely via your biometric data. Refer to Samsung Pass for more information.
- Samsung Blockchain Keystore: Manage your blockchain private key safely.



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

- **Install unknown apps**: Set the device to allow the installation of apps from unknown sources.
- **Secure Folder**: Create a secure folder to protect your private content and apps from others. Refer to Secure Folder for more information.

Secure Wi-Fi: Set the device to protect your data while using unsecured Wi-Fi networks.
 Refer to Secure Wi-Fi for more information.



This feature may not be available depending on the Wi-Fi network, region, or service provider.

Other security settings: Configure additional security settings.

### **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:

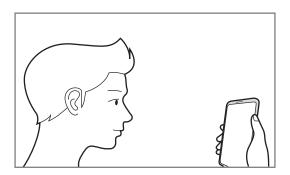
- Consider the conditions when registering, such as wearing glasses, hats, masks, beards, or heavy makeup
- Ensure that you are in a well-lit area and that the camera lens is clean when registering
- Ensure your image is not blurry for better match results

#### Registering your face

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

1 On the Settings screen, tap **Biometrics and security**  $\rightarrow$  **Face recognition**.

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



6 Position your face inside the frame on the screen.

The camera will scan your face.



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

## Deleting the registered face data

You can delete face data that you have registered.

- 1 On the Settings screen, tap **Biometrics and security**  $\rightarrow$  **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.

#### Unlocking the screen with your face

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

- 1 On the Settings screen, 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.



- If you want to set the device to unlock the screen without swiping on the locked screen after recognising your face, tap the Stay on Lock screen switch to deactivate it.
- If you want to reduce the possibility of recognising faces in photos or videos, tap the Faster recognition switch to deactivate it. This may decrease the face recognition speed.
- If you want to set your device to recognise your face only when your eyes are open, tap the **Require open eyes** switch to activate it.
- If you want to increase the recognition rate in a dark place, tap the **Brighten screen** switch to activate it.
- 4 On the locked screen, look at the screen.

When your face is 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.

### **Fingerprint recognition**

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

- Screen lock
- Secure Folder



- This feature may not be available depending on the region or service provider.
- Fingerprint recognition uses the unique characteristics of each fingerprint to enhance the security of your device. The likelihood of the fingerprint sensor confusing two different fingerprints is very low. However, in rare cases where separate fingerprints are very similar the sensor may recognise them as identical.
- If you use your fingerprint as a screen lock method, your fingerprint cannot be used to unlock the screen for the first time after turning on the device. To use the device, you must unlock the screen using the pattern, PIN, or password you set when registering the fingerprint. Be careful not to forget your pattern, PIN, or password.
- If your fingerprint is not recognised, unlock the device using the pattern, PIN, or password you set when registering the fingerprint, and then re-register your fingerprints. If your pattern, PIN, or password is forgotten, you will not be able to use the device if you do not reset it. Samsung is not responsible for any data loss or inconvenience caused by forgotten unlock codes.
- If you change the screen lock method to **Swipe** or **None**, which are not secure, all of your biometric data will be deleted. If you want to use your biometric data in apps or features, you must register your biometric data again.

#### For better fingerprint recognition

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

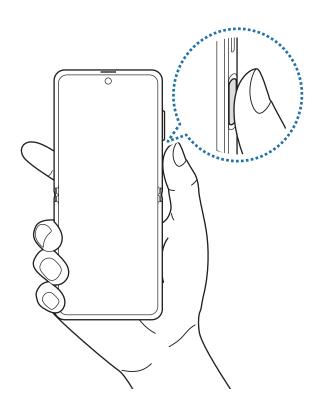
- The device may not recognise fingerprints that are affected by wrinkles or scars.
- The device may not recognise fingerprints from small or thin fingers.
- To improve recognition performance, register fingerprints of the hand used most often to perform tasks on the device.
- The Side key has a built-in fingerprint recognition sensor. Ensure that the fingerprint recognition sensor is not scratched or damaged by metal objects, such as coins, keys, and necklaces.

- Covering the fingerprint recognition sensor with protective films, stickers, or other
  accessories may decrease the fingerprint recognition rate. If the fingerprint recognition
  sensor is initially covered with a protective film, remove it before using the fingerprint
  recognition sensor.
- Ensure that the fingerprint recognition sensor and your fingers are clean and dry.
- If you bend your finger or use a fingertip, the device may not recognise your fingerprint. Make sure to cover the entire fingerprint recognition sensor with your finger.
- In dry environments, static electricity can build up in the device. Avoid using this feature in dry environments or before using the feature, discharge static electricity by touching a metal object.

#### Registering fingerprints

- 1 On the Settings screen, tap **Biometrics and security** → **Fingerprints**.
- 2 Read the on-screen instructions and tap **Continue**.
- 3 Set a screen lock method.
- 4 Place your finger on the Side key. After the device detects your finger, lift it up and place it on the Side key again.

Repeat this action until the fingerprint is registered.



Settings

5 When you are finished registering your fingerprints, tap **Done**.

### **Checking registered fingerprints**

You can check whether your fingerprint is registered by placing your finger on the fingerprint recognition sensor.

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

#### **Deleting registered fingerprints**

You can delete registered fingerprints.

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

### Unlocking the screen with your fingerprints

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

- 1 On the Settings screen, tap **Biometrics and security** → **Fingerprints**.
- 2 Unlock the screen using the preset screen lock method.
- 3 Tap the **Fingerprint unlock** switch to activate it.
- 4 On the locked screen, place your finger on the fingerprint recognition sensor and scan your fingerprint.

### Samsung Pass

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



- To use this feature, your device must be connected to a Wi-Fi or mobile network.
- To use this feature, you must sign in to your Samsung account. Refer to Samsung account for more information.
- The website sign-in feature is only available for websites that you access via the **Internet** app. Some websites may not support this feature.
- Registered biometric data and saved payment card information are only saved to your device and are not synced with other devices or servers.

#### **Registering Samsung Pass**

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

On the Settings screen, tap **Biometrics and security**  $\rightarrow$  **Samsung Pass**. Follow the on-screen instructions to complete the setup.

#### Verifying the Samsung account password

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

On the Samsung Pass main screen, tap • → Settings → Account and syncing, and then tap the Verify with Samsung Pass switch to activate it.

#### **Using Samsung Pass to sign in to websites**

You can use Samsung Pass to easily sign in to websites that support ID and password autofill.

- 1 Open a website that you want to sign in to.
- 2 Enter your ID and password, and then tap the website's sign in button.
- When a pop-up window asking whether you want to save the sign-in information appears, tick **Sign in with Samsung Pass** and tap **Remember**.

#### **Using Samsung Pass to sign in to apps**

You can use Samsung Pass to easily sign in to apps that support ID and password autofill.

- 1 Open an app that you want to sign in to.
- 2 Enter your ID and password, and then tap the app's sign in button.
- When a pop-up window asking whether you want to save the sign-in information appears, tap **Save**.

#### Managing sign-in information

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

- 1 On the Samsung Pass main screen, tap **Sign-in** and select a website or app from the list.
- 2 Tap Edit and modify your ID, password, and the website's or app's name.
  To delete your sign-in information, tap Delete.

### Using Samsung Pass with websites and apps

When using websites or apps that support Samsung Pass, you can easily sign in with Samsung Pass.

To see the list of websites and apps that support Samsung Pass, on the Samsung Pass main screen, tap • → Partners. If there are no websites or apps that support Samsung Pass, Partners will not appear.



- · Available websites and apps may vary depending on the region or service provider.
- Samsung is not responsible for any loss or inconvenience caused by signing in to websites or apps via Samsung Pass.

#### **Entering your personal information automatically**

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

- 1 On the Samsung Pass main screen, tap **Autofill forms** and select an option.
- 2 Enter the information and tap **Save**.

You can now use the biometric data you registered to Samsung Pass when entering the personal information automatically on supported apps.

#### **Deleting your Samsung Pass data**

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



- Your agreement to the terms and conditions and your Samsung account will remain active.
- The Samsung Pass data on other devices signed in to your Samsung account will not be deleted.
- 1 On the Samsung Pass main screen, tap  $\rightarrow$  Settings  $\rightarrow$  Delete data.
- 2 Enter your Samsung account password and tap **OK**. Your Samsung Pass data will be deleted.

Settings

#### **Secure Folder**

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





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



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

#### **Setting up Secure Folder**

- 1 Launch the **Settings** app and tap **Biometrics and security**  $\rightarrow$  **Secure Folder**.
- 2 Agree to the terms and conditions of Secure Folder.
- 3 Enter your Samsung account ID and password and tap Sign in.
- 4 Select a lock method to use for Secure Folder and follow the on-screen instructions to complete the setup.

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

To change the name or icon colour of Secure Folder, tap  $\longrightarrow$  Customise.



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

#### **Setting auto lock for Secure Folder**

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

- 1 Launch the Secure Folder app and tap ♣ → Settings → Auto lock Secure Folder.
- 2 Select a lock option.



To manually lock your Secure Folder, tap  $\longrightarrow$  Lock and exit.

### **Moving content to Secure Folder**

Move content, such as photos and videos, to Secure Folder. The following actions are an example of moving an image from the default storage to Secure Folder.

- 1 Launch the **Secure Folder** app and tap **Add files**.
- 2 Tap Images, tick images to move, and then tap Done.
- 3 Tap Move.

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



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

#### **Moving content from Secure Folder**

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

- 1 Launch the **Secure Folder** app and tap **Gallery**.
- Select an image and tap ♣ → Move out of Secure Folder.
  The selected items will be moved to Gallery in the default storage.

#### **Adding apps**

Add an app to use in Secure Folder.

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

Removing apps from Secure Folder

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

Settings

#### **Adding accounts**

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

- 1 Launch the Secure Folder app and tap  $\stackrel{\bullet}{\cdot} \rightarrow$  Settings  $\rightarrow$  Accounts  $\rightarrow$  Add account.
- 2 Select an account service.
- Follow the on-screen instructions to complete the account setup.

#### **Hiding Secure Folder**

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

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

Alternatively, open the notification panel, swipe downwards, and then tap (Secure Folder) to deactivate the feature.

#### **Backing up and restoring Secure Folder**

Back up content and apps in Secure Folder to Samsung Cloud using your Samsung account and restore them later.

#### Backing up data

- 1 Launch the Secure Folder app and tap  $\rightarrow$  Settings  $\rightarrow$  Backup and restore.
- 2 Tap **Add account** and follow the on-screen instructions to complete signing in to your Samsung account.
- 3 Tap Back up Secure Folder data.
- 4 Tick items you want to back up and tap **Back up**.

  Data will be backed up to Samsung Cloud.

Settings

#### **Restoring data**

- 1 Launch the Secure Folder app and tap  $\stackrel{\bullet}{\bullet} \rightarrow$  Settings  $\rightarrow$  Backup and restore.
- 2 Tap Restore.
- 3 Tap  $\checkmark$  to select a device to restore the data.
- 4 Tick items you want to restore and tap **Restore**. Backed up data will be restored to your device.

#### **Uninstalling Secure Folder**

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

Launch the Secure Folder app and tap  $\stackrel{\bullet}{\bullet} \rightarrow$  Settings  $\rightarrow$  More settings  $\rightarrow$  Uninstall.

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



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

#### Secure Wi-Fi

Secure Wi-Fi is a service that secures your Wi-Fi network connection. It encrypts data using Wi-Fi networks and disables tracking apps and websites so that you can use Wi-Fi networks safely. For example, when using an unsecure Wi-Fi network in public places, such as cafes or airports, Secure Wi-Fi is automatically activated so that no one can hack your login information or monitor your activity in apps and websites.

On the Settings screen, tap **Biometrics and security**  $\rightarrow$  **Secure Wi-Fi** and follow the on-screen instructions to complete the setup.

When Secure Wi-Fi is activated, the picon will appear on the status bar.



- To use this feature, you must sign in to your Samsung account.
- Using this feature may result in a slower Wi-Fi network speed.
- This feature may not be available depending on the Wi-Fi network, region, or service provider.

#### Selecting apps to protect using Secure Wi-Fi

Select apps to protect using Secure Wi-Fi so that you can safely protect data, such as your password or your activity in apps, from being accessed by others.



Some apps may not support this feature.

On the Settings screen, tap **Biometrics and security**  $\rightarrow$  **Secure Wi-Fi**  $\rightarrow$  **Protected apps** and tap the switches next to the apps you want to protect using Secure Wi-Fi.

## Purchasing protection plan

You are provided with a free protection plan for Wi-Fi networks every month. You can also purchase paid protection plans and have unlimited bandwidth protection for a limited time.

- 1 On the Settings screen, tap **Biometrics and security** → **Secure Wi-Fi**.
- 2 Tap **Protection plan** and select the plan you want.



For certain protection plans, you can transfer the protection plan to another device signed in to your Samsung account.

Follow the on-screen instructions to complete the purchase.

# **Privacy**

Change the settings for privacy.

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

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

## Location

Change settings for location information permissions.

On the Settings screen, tap Location.

- **App permissions**: View the list of apps that have permission to access the device's location and edit the permission settings.
- **Improve accuracy**: Set the device to use the Wi-Fi or Bluetooth feature to increase the accuracy of your location information, even when the features are deactivated.
- Recent location requests: View which apps request your current location information.
- Location services: View the location services your device is using.

# **Accounts and backup**

## **Options**

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

On the Settings screen, tap Accounts and backup.

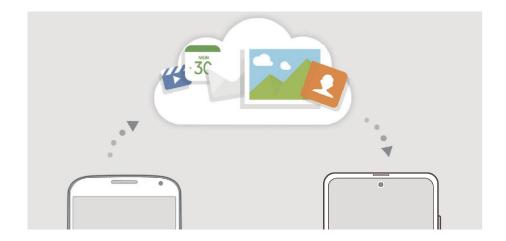
- Accounts: Add your Samsung and Google accounts, or other accounts, to sync with.
- Backup and restore: Keep your personal information, app data, and settings safe on your device. You can back up your sensitive information and access it later. You must sign in to your Google or Samsung account to back up or restore data.
- Samsung Cloud: Manage the content that you want to store securely in Samsung Cloud. Sync and back up your data and settings, and restore the previous device's data and settings even when you do not have it. Refer to Samsung Cloud for more information.
- Smart Switch: Launch Smart Switch and transfer data from your previous device. Refer to Transferring data from your previous device (Smart Switch) for more information.



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

## **Samsung Cloud**

Sync your device's data with Samsung Cloud and view the data you have synced in each app. You can also back up your device's data to Samsung Cloud and restore it later.





To use Samsung Cloud, you must sign in to your Samsung account.

#### Syncing data

You can sync data saved in your device with Samsung Cloud and access it from other devices.

- 1 On the Settings screen, tap **Accounts and backup**  $\rightarrow$  **Samsung Cloud**.
- **2** Tap  $\longrightarrow$  Settings  $\longrightarrow$  Sync and auto backup settings  $\longrightarrow$  Sync.
- 3 Tap the switches next to the items you want to sync with.



- You can check the saved data or change the settings by tapping Gallery, Other synced data, or Samsung Cloud Drive.
- When you connect your Samsung account and Microsoft account, you can sync images and videos with Microsoft OneDrive.

#### **Backing up data**

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

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



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

#### **Restoring data**

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

- 1 On the Settings screen, tap **Accounts and backup**  $\rightarrow$  **Samsung Cloud**.
- 2 Tap Restore data  $\rightarrow$   $\blacksquare$  and select a device you want.
- 3 Tick items you want to restore and tap **Restore**.

# Google

Configure settings for some features provided by Google.

On the Settings screen, tap Google.

## **Advanced features**

### **Options**

Activate advanced features and change the settings that control them.

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



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

- **Side key**: Select an app or feature to launch using the Side key. Refer to Setting the Side key for more information.
- **Bixby Routines**: Add routines to automate settings that you use repeatedly. The device also suggests useful routines according to your frequent situations. Refer to Bixby Routines for more information.
- Call & text on other devices: Use your device's calling and messaging features on other devices signed in to your Samsung account.



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

- Link to Windows: Instantly access data saved in your device on your computer. Refer to Link to Windows for more information.
- Multi window tray: Set the device to display the multi window tray that provides the list
  of apps which can launch in the split screen view.
- Smart pop-up view: Select apps to view their notifications via pop-up windows. When using this feature, you can quickly view the contents via pop-up windows by tapping the icon on the screen.



This feature is only available in apps that support the Multi window feature.

- Screenshots and screen recorder: Change the settings for screenshots and screen recorder.
- **Direct share**: Set the device to display the people you contacted on the sharing options panel to allow you to share content directly.
- **Reduce animations**: Set the device to reduce the screen effects of certain actions, such as opening or closing apps.

- Motions and gestures: Activate the motion feature and configure settings. Refer to Motions and gestures for more information.
- One-handed mode: Activate one-handed operation mode for your convenience when using the device with one hand.



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

- Game Launcher: Activate the Game Launcher. Refer to Game Launcher for more information.
- **Dual Messenger**: Install the second app and use two separate accounts for the same messenger app. Refer to Dual Messenger for more information.
- **Video enhancer**: Enhance the image quality of your videos to enjoy brighter and more vivid colours.



This feature may not be available in some apps.

• **Send SOS messages**: Set the device to send help messages by pressing the Side key three times.

## **Motions and gestures**

Activate the motion feature and configure settings.

On the Settings screen, tap **Advanced features**  $\rightarrow$  **Motions and gestures**.

- Lift to wake: Set the device to turn on the screen when you pick it up.
- **Double tap to wake**: Set the device to turn on the screen by double-tapping anywhere on the screen while the screen is turned off.
- Smart stay: Set the device to prevent the display from turning off while you are looking at it.
- 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.
- **Finger sensor gestures**: Set the device to open or close the notification panel when you swipe upwards or downwards on the fingerprint recognition sensor. This feature is not available when the sensor is detecting your fingerprint.
- 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.

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

## **Dual Messenger**

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

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

to distinguish them from the first app's notifications.





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

#### Uninstalling a second app

- 1 On the Settings screen, tap **Advanced features** → **Dual Messenger**.
- 2 Tap the switch of the app you want to uninstall and tap **Disable** or **Uninstall**.

  All data related to the second app will be deleted.



If you uninstall the first app, the second app will also be deleted.

# Digital Wellbeing and parental controls

## **Options**

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

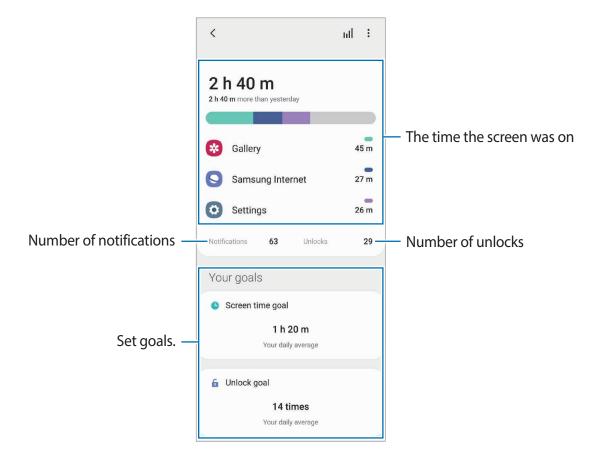
On the Settings screen, tap **Digital Wellbeing and parental controls**.

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

## **Digital Wellbeing**

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

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



### Setting your goals

You can set goals for how long to use your device and how many times to unlock it a day.

- 1 On the Settings screen, tap **Digital Wellbeing and parental controls**.
- 2 Tap Screen time goal or Unlock goal under Your goals, set a goal, and then tap Set.

#### **Setting timers for apps**

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

- 1 On the Settings screen, tap **Digital Wellbeing and parental controls** → **App timers**.
- 2 Tap **No timer** next to the app you want and set the time.

#### Using focus mode

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

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

#### **Activating wind down mode**

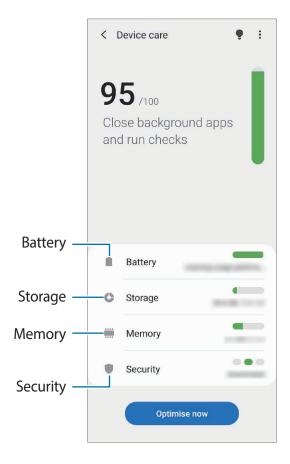
You can activate wind down mode to reduce eye strain before sleeping and prevent your sleep from being disturbed.

- 1 On the Settings screen, tap **Digital Wellbeing and parental controls** → **Wind Down**.
- 2 To set the schedule to activate wind down mode, tap **Turn on as scheduled**, tap the switch to activate it, and then set the days and time.

## **Device care**

#### Introduction

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



## **Optimising your device**

On the Settings screen, tap **Device care**  $\rightarrow$  **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  $\bullet \to Advanced \to Auto optimisation$  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 **Device care**  $\rightarrow$  **Battery**.



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

#### Power mode

Select a power mode that suits your device usage purposes.

Tap **Power mode** and select an option.

- **High performance**: The screen is as bright as possible and at maximum resolution. The battery may drain quickly.
- **Optimised**: Optimised for a balance between the device's performance and battery usage.
- **Medium power saving**: Activate power saving mode to extend the battery's usage time.
- Maximum power saving: In maximum power saving mode, the device decreases battery
  consumption by activating dark mode and limiting the apps and features available.
   Network connections, except for the mobile network, will be deactivated.

You can set the device to charge the battery more quickly. Tap **Charging** and tap the switches next to the items you want.

#### Adaptive power saving

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

Tap **Power mode** and tap the **Adaptive power saving** switch to activate it. Your device will activate power saving mode based on the situation to extend the battery's usage time.

#### Putting apps to sleep

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

# **Storage**

Check the status of the used and available memory.

On the Settings screen, tap **Device care**  $\rightarrow$  **Storage**.



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

# Managing the memory

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

# Memory

On the Settings screen, tap **Device care**  $\rightarrow$  **Memory**.

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

# **Security**

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

On the Settings screen, tap **Device care**  $\rightarrow$  **Security**  $\rightarrow$  **Scan phone**.

# **Apps**

Manage the device's apps and change their settings. You can view the apps' usage information, change their notification or permission settings, or uninstall or disable unnecessary apps.

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

# **General management**

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

On the Settings screen, tap **General management**.

- Language and input: Select device languages and change settings, such as keyboards and voice input types. Some options may not be available depending on the selected language. Refer to Adding device languages for more information.
- **Date and time**: Access and alter the settings to control how the device displays the time and date.



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

- Contact us: Ask questions or view frequently asked questions.
- **Reset**: Reset your device's settings or perform a factory data reset. You can reset all your settings, or only network settings, or accessibility settings. You can also set the device to restart at a preset time for device optimisation.

#### Adding device languages

You can add languages to use on your device.

1 On the Settings screen, tap **General management** → **Language and input** → **Language** → **Add language**.

To view all the languages that can be added, tap  $\stackrel{\bullet}{\bullet} \rightarrow$  All languages.

2 Select a language to add.

Settings

3 To set the selected language as the default language, tap **Set as default**. To keep the current language setting, tap **Keep current**.

The selected language will be added to your languages list. If you changed the default language, the selected language will be added to the top of the list.

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

# **Accessibility**

Configure various settings to improve accessibility to the device. Refer to Accessibility for more information.

On the Settings screen, tap Accessibility.

# Software update

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

On the Settings screen, tap **Software update**.



If emergency software updates are released for your device's security and to block new types of security threats, they will be installed automatically without your agreement.

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

# Security updates information

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



The website supports only some languages.

# **About phone**

Access your device's information.

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

To change your device's name, tap **Edit**.

- **Status**: View various device information, such as the SIM card status, Wi-Fi MAC address, and serial number.
- **Legal information**: View legal information related to the device, such as safety information and the open source licence.
- **Software information**: View the device's software information, such as its operating system version and firmware version.
- Battery information: View the device's battery status and information.

# **Appendix**

# **Accessibility**

# **About Accessibility**

Improve accessibility with features that make the device easier to use for users who have impaired vision, hearing, and reduced dexterity.

Launch the **Settings** app and tap **Accessibility**. You can check the accessibility feature you are using at the top of the screen. Tap  $\checkmark$  to view features you are currently using or tap **Turn off** to disable the features quickly.

## **Voice Assistant (Voice feedback)**

#### **Activating or deactivating Voice Assistant**

When you activate Voice Assistant, the device will start voice feedback. When you tap the selected feature once, the device will read the text on the screen aloud. Tapping the feature twice will activate the feature.

Launch the **Settings** app, tap **Accessibility** → **Screen reader**, tap the **Voice Assistant** switch, tap **Allow**, and then tap the selected area twice to activate the feature.

To deactivate Voice Assistant, tap the switch and tap anywhere on the screen twice quickly. To view how to use Voice Assistant, tap **Tutorial**.



Some features are not available while you are using Voice Assistant.

#### Controlling the screen with finger gestures

You can use various finger gestures to control the screen while you are using Voice Assistant.

#### One finger gestures

- Tapping: Read aloud the item under your finger. To explore the screen, place a finger on the screen and move it on the screen.
- Tapping twice: Open the selected item. While selected items are read aloud, when you
  hear the item you want, release your finger from the item. Then, tap anywhere on the
  screen twice quickly.
- Double-tapping and holding the screen: Move an item or access an available option.
- Swiping to the left: Read the previous item.
- Swiping to the right: Read the next item.
- Swiping upwards or downwards: Change the most recent contextual menu settings.
- Swiping to the left then right in one motion: Scroll up the screen.
- Swiping to the right then left in one motion: Scroll down the screen.
- Swiping upwards then downwards in one motion: Move to the first item on the screen.
- Swiping downwards then upwards in one motion: Move to the last item on the screen.

#### Two finger gestures

- Tapping twice: Start, pause, or resume the current action.
- Tapping three times: Check the current time, remaining battery power, and more. To change items that are read aloud, launch the Settings app and tap Accessibility → Screen reader → Settings → Status bar information.
- Tapping four times: Activate or deactivate voice feedback.
- Swiping to the left: Move to the next page.
- Swiping to the right: Return to the previous page.
- Swiping upwards: Scroll down the list.
- Swiping downwards: Scroll up the list.
- Swipe upwards or downwards on the Home screen: Open the Apps screen.
- Swipe upwards or downwards on the Apps screen: Return to the Home screen.
- Swiping in any direction on the locked screen: Unlock the screen.
- Swiping downwards from the top of the screen: Open the notification panel.

#### Three finger gestures

- Tapping: Start reading items aloud from the top.
- Tapping twice: Start reading from the next item.
- Tapping three times: Read the last selected text and copy it to the clipboard.
- Swiping to the left or right: Open the contextual menu and scroll through the options.
- Swiping upwards or downwards: Change the text reading and selecting granularity.
- Swiping upwards then downwards in one motion: Return to the previous screen.
- Swiping downwards then upwards in one motion: Return to the Home screen.

#### Four finger gestures

- Tapping: Return to the previous screen.
- Tapping twice: Return to the Home screen.
- Tapping three times: Open the list of recent apps.

#### Using the contextual menu

While you are using Voice Assistant, swipe to the left or right with three fingers. The contextual menu will appear and the device will read the options aloud. Swipe to the left or right with three fingers to scroll through the options. When you hear the option you want, swipe upwards or downwards to use the option or adjust the settings for the option. For example, when you hear **Speech rate**, you can adjust the speech rate by swiping upwards or downwards.

#### Adding and managing image labels

You can assign labels to images on the screen. The device reads aloud the labels when the images are selected. Add labels to unlabelled images by tapping the screen twice with three fingers and holding.

To manage the labels, launch the **Settings** app and tap **Accessibility**  $\rightarrow$  **Screen reader**  $\rightarrow$  **Settings**  $\rightarrow$  **Manage custom labels**.

#### **Configuring settings for Voice Assistant**

Configure settings for Voice Assistant for your convenience.

Launch the **Settings** app and tap **Accessibility**  $\rightarrow$  **Screen reader**  $\rightarrow$  **Settings**.

- **Text-to-speech**: Change the settings for text-to-speech features used when Voice Assistant is activated, such as languages, speed, and more.
- Verbosity: Customise the detailed settings for voice feedback.
- Shake for continuous reading: Set the device to read aloud the text displayed on the screen when you shake the device. You can select from various shaking intensity.
- **Speak passwords**: Set the device to read the characters aloud when you enter your password.
- Read caller ID aloud: Set the device to read the caller's name aloud when you have an incoming call.
- **Vibration feedback**: Set the device to vibrate when you control the screen, such as selecting an item.
- **Sound feedback**: Set the device to emit a sound when you control the screen, such as selecting an item. You can also adjust the volume of the sound played when you touch the screen to control it.
- Focus on speech audio: Set the device to turn the media volume down when the device reads an item aloud.
- Focus indicator: Set the device to thicken the border of the focus indicator that appears when you tap items. You can also change the colour of the indicator.
- Single-tap activation: Set the device to activate the selected item with a single tap.
- Single-tap navigation bar: Set the device to use the buttons on the navigation bar with a single tap.
- Quick menu: Select contextual menu options to display when you swipe to the left or right with three fingers.
- Manage custom labels: Manage the labels you added.
- **Enhanced focus**: Set the device to move the focus to the starting or previous position when changing screens.
- **Keyboard shortcuts**: Set key shortcuts to use when using an external keyboard.
- Light sensing: Set the device to let you know when it detects light.

- Dark screen with Side key: Set the device to function normally with the screen off.
- Status bar information: Select items to read aloud when you tap the screen three times with two fingers.
- **Developer options**: Set options for app development.

#### Using the device with the screen turned off

For privacy, you can set the device to function normally with the screen off. The screen will not turn on when you press keys or tap the screen. Currently activated features do not turn off when the screen is off.

Launch the **Settings** app, tap **Accessibility**  $\rightarrow$  **Screen reader**  $\rightarrow$  **Settings**, and then tap the **Dark screen with Side key** switch to activate it. You can activate or deactivate this feature by pressing the Side key twice quickly.



This feature will appear only when Voice Assistant has been activated.

#### Entering text using the keyboard

To display the keyboard, tap the text input field, and then tap anywhere on the screen twice quickly.

To activate the rapid key input feature, launch the **Settings** app, tap **Accessibility** → **Screen reader**, and then tap the **Quick typing** switch to activate it.

When you touch the keyboard with your finger, the device reads aloud the character keys under your finger. When you hear the character you want, release your finger from the screen to select it. The character is entered and the device reads the text aloud.

If **Quick typing** is not activated, release your finger from the character you want, and then tap anywhere on the screen twice quickly.



This feature will appear only when Voice Assistant has been activated.

#### **Entering additional characters**

Tap and hold a key on the keyboard to enter additional characters available for the key. A pop-up window appears above the key showing available characters. To select a character, drag your finger on the pop-up window until you hear the character you want, and release it.

# **Visibility enhancements**

#### Using the high contrast theme

Apply a clear theme that displays light-coloured content on a dark background.

Launch the **Settings** app, tap **Accessibility** → **Visibility enhancements** → **High contrast theme**, and then select a theme you want.

#### Using the high contrast font

Adjust the colour and outline of fonts to increase the contrast between the text and the background.

Launch the **Settings** app, tap **Accessibility** → **Visibility enhancements**, and then tap the **High contrast fonts** switch to activate it.

#### Using the high contrast keyboard

Change the colours of the Samsung keyboard to increase the contrast between the text and the background.

Launch the **Settings** app, tap **Accessibility** → **Visibility enhancements**, and then tap the **High contrast keyboard** switch to activate it.

#### Displaying button shapes

Display button shapes with frames to make them stand out.

Launch the **Settings** app, tap **Accessibility** → **Visibility enhancements**, and then tap the **Show button shapes** switch to activate it.

## Reversing the display colours

Improve screen visibility to help users recognise text on the screen more easily.

Launch the **Settings** app, tap **Accessibility** → **Visibility enhancements**, and then tap the **Colour inversion** switch to activate it.

#### **Colour adjustment**

Adjust how colours are displayed on the screen if you have difficulty in distinguishing colours. The device changes the colours into more recognisable colours.

Launch the **Settings** app, tap **Accessibility**  $\rightarrow$  **Visibility enhancements**  $\rightarrow$  **Colour adjustment**, and then tap the switch to activate it. Select an option.

To adjust the intensity of colour, drag the adjustment bar under Intensity.

If you select **Personalised colour**, you can personalise the colour of the screen. Follow the on-screen instructions to complete the colour adjustment procedure.

#### Colour lens

Adjust the screen colours if you have difficulty in reading the text.

Launch the **Settings** app, tap **Accessibility**  $\rightarrow$  **Visibility enhancements**  $\rightarrow$  **Colour lens**, and then tap the switch to activate it. Select a colour you want.

To adjust the transparency level, drag the adjustment bar under **Opacity**.

#### Reducing screen motion effects

Reduce animation effects if you are sensitive to animations or screen movement.

Launch the **Settings** app, tap **Accessibility**  $\rightarrow$  **Visibility enhancements**, and then tap the **Remove animations** switch to activate it.

#### Using a magnifier

Activate a magnifier to zoom in on the screen to view a larger version of the content.

Launch the **Settings** app, tap **Accessibility**  $\rightarrow$  **Visibility enhancements**, and then tap the **Magnifier window** switch to activate it. The magnifier will appear on the screen.

Drag the edge of the magnifier frame to move the magnifier to where you want to zoom in on the screen.

#### Magnifying the screen

Magnify the screen and zoom in on a specific area.

Launch the **Settings** app and tap **Accessibility** → **Visibility enhancements** → **Magnification**.

- **Triple tap screen to magnify**: Zoom in by tapping the screen three times. To return to the normal view, tap the screen three times again.
- Use shortcut to magnify: Zoom in by tapping  $\hat{\pi}$  on the navigation bar, and then tapping where you want to magnify the screen. To return to the normal view, tap  $\hat{\pi}$ .

To explore the screen, drag two or more fingers across the magnified screen.

To adjust zoom ratio, pinch two or more fingers on the magnified screen or spread them apart.

You can also temporarily magnify the screen by tapping the screen three times and holding. Or, tap  $\dot{\pi}$ , and then tap and hold the screen. While holding the screen, drag your finger to explore the screen. Release your finger to return to the normal view.



- Keyboards and the navigation bar on the screen cannot be magnified.
- When this feature is activated, the performance of some apps may be affected.

#### **Enlarging mouse or touchpad pointers**

Enlarge the pointer when using an external mouse or touchpad.

Launch the **Settings** app, tap **Accessibility** → **Visibility** enhancements, and then tap the **Large mouse/touchpad pointer** switch to activate it.

#### **Changing font**

Change the font size and style.

Launch the Settings app and tap Accessibility  $\rightarrow$  Visibility enhancements  $\rightarrow$  Font size and style.

## Changing screen zoom

Change the screen zoom setting.

 $Launch\ the\ \textbf{Settings}\ app\ and\ tap\ \textbf{Accessibility} \rightarrow \textbf{Visibility}\ \textbf{enhancements} \rightarrow \textbf{Screen}\ \textbf{zoom}.$ 

# **Hearing enhancements**

#### Hearing aid support

Set the device to enhance the sound quality to work better with hearing aids.

Launch the **Settings** app, tap **Accessibility** → **Hearing enhancements** → **Hearing aid support**, and then tap the **Hearing aid compatibility** switch to activate it.

#### **Amplify ambient sound**

Set the device to amplify the sound around you to help you hear better when using an earphone.

- 1 Launch the Settings app, tap Accessibility → Hearing enhancements → Amplify ambient sound, and then tap the switch to activate it.
- 2 Connect an earphone to the device and wear it.
- 3 Tap **★**.

#### **Adapt sound**

Optimise the sound setting to find the best sound quality and use it for calls or media playback.

Launch the **Settings** app, tap **Accessibility**  $\rightarrow$  **Hearing enhancements**  $\rightarrow$  **Adapt sound**, and then optimise the sound setting.

## Adjusting the sound balance

Set the device to adjust the sound balance when using an earphone.

- 1 Connect an earphone to the device and wear it.
- 2 Launch the **Settings** app and tap **Accessibility**  $\rightarrow$  **Hearing enhancements**.
- 3 Drag the adjustment bar under **Left/right sound balance** to the left or right and adjust the sound balance.

**Appendix** 

#### Mono audio

Mono output combines stereo sound into one signal that is played through all earphone speakers. Use this if you have a hearing impairment or if a single earbud is more convenient.

Launch the **Settings** app, tap **Accessibility** → **Hearing enhancements**, and then tap the **Mono audio** switch to activate it.

#### **Turning off all sounds**

Set the device to mute all device sounds, such as media sounds, and the caller's voice during a call.

Launch the **Settings** app, tap **Accessibility** → **Hearing enhancements**, and then tap the **Mute all sounds** switch to activate it.

#### Live Transcribe

Set the device to capture speech using the device's microphone and convert it to on-screen text.

Launch the **Settings** app, tap **Accessibility**  $\rightarrow$  **Hearing enhancements**  $\rightarrow$  **Live Transcribe**, and then tap the switch to activate it. Then, tap  $\mathring{\pi}$  to transcribe speech.

#### **Live Caption**

Set the device to detect speech and automatically generate captions when you play media content, such as videos or podcasts.

Launch the **Settings** app, tap **Accessibility**  $\rightarrow$  **Hearing enhancements**  $\rightarrow$  **Live Caption**, and then tap the **Live Caption** switch to activate it.

#### **Caption settings**

Launch the Settings app, tap Accessibility  $\rightarrow$  Hearing enhancements  $\rightarrow$  Subtitle settings  $\rightarrow$  Samsung subtitles (CC) or Google subtitles (CC), and then tap the switch to activate it. Select an option for configuring the caption settings.

#### Sound detectors

Set the device to detect a baby crying or your doorbell. The device will vibrate when it detects sound and the alert will be saved as a log.



While this feature is enabled, the voice recognition will not operate.

#### **Baby crying detector**

Launch the Settings app and tap Accessibility  $\rightarrow$  Hearing enhancements  $\rightarrow$  Sound detectors  $\rightarrow$  Baby crying detector  $\rightarrow$  Start.

#### Doorbell detector

- 1 Launch the Settings app and tap Accessibility → Hearing enhancements → Sound detectors → Doorbell detector.
- 2 Tap Record to make a recording of your doorbell.
  The device will detect and record the doorbell.
- 3 Tap **Test** and ring your doorbell to check if it is recorded correctly. When the device detects the doorbell sound, tap **Start**.

To change the doorbell sound, tap **Change doorbell sound**.

# Interaction and dexterity

#### Universal switch

You can control the touchscreen by connecting an external switch, by tapping the screen, or by using head movements and face gestures.

- 1 Launch the Settings app and tap Accessibility → Interaction and dexterity → Universal switch.
- 2 Read the on-screen instructions and tap **Done**.
- 3 Tap the switch to activate it.
- 4 If the universal switches are not registered on the device, tap **Add switch** and set switches to control the device.



To activate the universal switch feature, at least one switch must be registered on the device.

To set switches to control the device, tap the switch under **Switches**.

To deactivate this feature, press the Side key and the Volume Up key simultaneously.

#### **Assistant menu**

#### Displaying the assistive shortcut icon

Set the device to display the assistive shortcut icon for accessing apps, features, and settings. You can easily control the device by tapping the assistive menus in the icon.

- 1 Launch the **Settings** app and tap **Accessibility** → **Interaction and dexterity** → **Assistant** menu.
- 2 Tap the switch to activate it.

The assistive shortcut icon appears at the bottom right of the screen.

To adjust the assistant shortcut icon's transparency level, drag the adjustment bar under **Transparency**.

#### **Accessing assistive menus**

The assistive shortcut icon appears as a floating icon for easy access to the assistive menus from any screen.

When you tap the assistive shortcut icon, the icon expands slightly and the assistive menus appear on the icon. Tap the left or right arrow to move to other panels or swipe to the left or right to select other menus.

#### Using the cursor

On the assistive menu, tap **Cursor**. You can control the screen using small finger movements on the touch area. Drag your finger on the touch area to move the cursor. Also, tap the screen to select items under the cursor.

Use the following options:

- 《 / 》: Scroll left or right on the screen.
- ♠ / ❤ : Scroll up or down the screen.
- (a): Magnify the area where the cursor is located.

- X: Close the touch area.

**Appendix** 

#### Using enhanced assistive menus

Set the device to display enhanced assistive menus for selected apps.

Launch the **Settings** app, tap **Accessibility**  $\rightarrow$  **Interaction and dexterity**  $\rightarrow$  **Assistant menu**  $\rightarrow$  **Assistant plus**, and then tap the switches next to the apps you want to activate.

#### Answering or ending calls

Change the method for answering or ending calls.

Launch the **Settings** app, tap **Accessibility**  $\rightarrow$  **Interaction and dexterity**  $\rightarrow$  **Answering and ending calls**, and then tap the switch of the method you want.

#### Interaction control

Activate interaction control mode to restrict the device's reaction to inputs while using apps.

- 1 Launch the Settings app and tap Accessibility → Interaction and dexterity → Interaction control.
- 2 Tap the switch to activate it.
- 3 Press and hold the Side key and the Volume Up key simultaneously while using an app.
- 4 Adjust the size of the frame or draw a line around an area that you want to restrict.
- 5 Tap Done.

The device displays the restricted area. The restricted area will not react when you touch it and the device's keys will be disabled. However, you can enable functions for the Side key, Volume key, and keyboard in interaction control mode.

To deactivate interaction control mode, press and hold the Side key and the Volume Up key simultaneously.

To set the device to lock the screen after deactivating interaction control mode, launch the **Settings** app, tap **Accessibility**  $\rightarrow$  **Interaction and dexterity**  $\rightarrow$  **Interaction control**, and then tap the **Lock screen when deactivated** switch to activate it.

#### Touch and hold delay

Set the recognition time for tapping and holding the screen.

Launch the **Settings** app, tap **Accessibility**  $\rightarrow$  **Interaction and dexterity**  $\rightarrow$  **Touch and hold delay**, and then select an option.

#### **Tap duration**

Set the duration you must touch the screen for the device to recognise it as a tap.

Launch the **Settings** app, tap **Accessibility**  $\rightarrow$  **Interaction and dexterity**  $\rightarrow$  **Tap duration**, tap the switch to activate it, and then set the time.

#### Ignore repeated touches

Set the device to recognise only the first tap within a set time when you tap the screen repeatedly.

Launch the Settings app, tap Accessibility  $\rightarrow$  Interaction and dexterity  $\rightarrow$  Ignore repeated touches, tap the switch to activate it, and then set the time.

#### Click after pointer stops

Set the device to select an item automatically when you place the mouse pointer over the item.

Launch the **Settings** app, tap **Accessibility** → **Interaction and dexterity**, and then tap the **Click after pointer stops** switch to activate it.

## Sticky keys

Set an external keyboard's modifier key, such as the Shift, Ctrl, or Alt keys, to stay pressed. This helps you use keyboard shortcuts without pressing two keys at the same time.

Launch the **Settings** app, tap **Accessibility** → **Interaction and dexterity**, and then tap the **Sticky keys** switch to activate it.

# Slow keys

Set the recognition time for pressing a key on the external keyboard.

Launch the **Settings** app, tap **Accessibility**  $\rightarrow$  **Interaction and dexterity**  $\rightarrow$  **Slow keys**, tap the switch to activate it, and then set the time.

#### **Bounce keys**

Set the device to recognise only the first time you press a key within a set time when you press the same key repeatedly.

Launch the **Settings** app, tap **Accessibility**  $\rightarrow$  **Interaction and dexterity**  $\rightarrow$  **Bounce keys**, tap the switch to activate it, and then set the time.

# **Advanced settings**

#### Launching accessibility features quickly

Set to open accessibility features quickly.

Launch the **Settings** app, tap **Accessibility**  $\rightarrow$  **Advanced settings**  $\rightarrow$  **Side and Volume up keys**, and then tap the switch to activate it. Then, select an accessibility feature to open when you simultaneously press the Side key and the Volume Up key.

You can access the following accessibility features:

- Accessibility
- Voice Assistant
- Universal switch
- Magnifier window
- Colour inversion
- Colour adjustment
- Colour lens
- High contrast fonts
- Mute all sounds
- Interaction control

#### Launching the shortcut services quickly

Set to start a shortcut service quickly.

Launch the **Settings** app, tap **Accessibility**  $\rightarrow$  **Advanced settings**  $\rightarrow$  **Volume up and down keys**, and then tap the switch to activate it. Then, tap **Selected service** and select a shortcut service to start when you simultaneously press and hold the Volume Up key and the Volume Down key for three seconds.

You can access the following shortcut services:

- Live Transcribe
- Your Phone Companion
- Universal switch
- Voice Assistant

### **Setting light notification**

Set the device to blink the flash or the screen when an alarm sounds or when you have notifications, such as incoming calls or new messages.

Launch the **Settings** app, tap **Accessibility**  $\rightarrow$  **Advanced settings**  $\rightarrow$  **Flash notification**, and then tap the switches next to the options you want to activate.

#### Notification reminders

Set the device to alert you to notifications that you have not checked at the interval.

Launch the **Settings** app, tap **Accessibility**  $\rightarrow$  **Advanced settings**  $\rightarrow$  **Notification reminders**, and then tap the switch to activate it.

- Vibrate when sound plays: Set the device to vibrate and play a notification sound when you have unchecked notifications.
- Remind every: Set an interval between alerts.
- Select apps: Set apps to alert you to notifications.

#### Time to take action

Set the amount of time to display pop-up windows that ask you to take action, such as notifications or volume controller.

Launch the **Settings** app, tap **Accessibility**  $\rightarrow$  **Advanced settings**  $\rightarrow$  **Time to take action**, and then select an option.

#### Adding voice recordings to voice labels

You can use voice labels to distinguish objects of similar shape by attaching labels to them. You can record and assign a voice recording to an NFC-enabled voice label. The voice recording is played back when you place your device near the label.



Turn on the NFC feature before using this feature.

- 1 Launch the Settings app and tap Accessibility → Advanced settings → Voice Label.
  The voice recorder will launch.
- 2 Tap 
  to start recording. Speak into the microphone.
- 3 When you are finished recording, tap **Done** to stop.
- 4 Place the lower part of your device's back over the voice label.

  The information in the voice recording will be written to the voice label.

#### **Bixby Vision for accessibility**

When you activate the Bixby Vision accessibility features, Bixby Vision can recognise and describe scenes, text, or objects so that you can hear the related information.

Launch the **Settings** app, tap **Accessibility**  $\rightarrow$  **Advanced settings**  $\rightarrow$  **Bixby Vision for accessibility**, and then tap the switch to activate it.



Available features may vary depending on the region.

**Appendix** 

#### Describing surrounding scenes

Analyse the scene you captured and describe it by voice.

- 1 Tap Open Bixby Vision.
- 2 Select and double-tap the screen to capture the scene you want.

#### Reading text or object information aloud

Recognise text or objects and describe them by voice.

- 1 Tap Open Bixby Vision.
- 2 Select T and keep the text or object within the screen to recognise it.

#### **Installed services**

View accessibility services installed on the device.

Launch the **Settings** app and tap **Accessibility** → **Installed services**.

# **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 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**  $\rightarrow$  **Reset**  $\rightarrow$  **Factory data reset**  $\rightarrow$  **Reset**  $\rightarrow$  **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 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.

### Bluetooth is not working well

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

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

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

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

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

### Your device cannot find your current location

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

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

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

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

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

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

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

### The Home button does not appear

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

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

Open the notification panel by dragging the status bar downwards, and then drag the notification panel downwards. Tap • Quick panel layout and tap the Show brightness on top switch to activate it.

# Removing the battery

- To remove the battery, contact an authorised service centre. To obtain battery removal instructions, please visit www.samsung.com/global/ecodesign\_energy.
- For your safety, you <u>must not attempt to remove</u> the battery. If the battery is not properly removed, it may lead to damage to the battery and device, cause personal injury, and/or result in the device being unsafe.
- Samsung does not accept liability for any damage or loss (whether in contract or tort, including negligence) which may arise from failure to precisely follow these warnings and instructions, other than death or personal injury caused by Samsung's negligence.

# Health and safety information

#### **Exposure to Radio Frequency (RF) Signals**

#### **Certification Information (SAR)**

Your wireless phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the exposure limits for radio frequency (RF) energy set by the Federal Communications Commission (FCC) of the U.S. government. These FCC exposure limits are derived from the recommendations of two expert organizations, the National Counsel on Radiation Protection and Measurement (NCRP) and the Institute of Electrical and Electronics Engineers (IEEE). In both cases, the recommendations were developed by scientific and engineering experts drawn from industry, government, and academia after extensive reviews of the scientific literature related to the biological effects of RF energy.

The exposure limit set by the FCC for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate (SAR). The SAR is a measure of the rate of absorption of RF energy by the human body expressed in units of watts per kilogram (W/kg). The FCC requires wireless phones to comply with a safety limit of 1.6 watts per kilogram (1.6 W/ kg). The FCC exposure limit incorporates a substantial margin of safety to give additional protection to the public and to account for any variations in measurements.

SAR tests are conducted using standard operating positions accepted by the FCC with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

Before a new model phone is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the exposure limit established by the FCC. Tests for each model phone are performed in positions and locations (e.g. at the ear and worn on the body) as required by the FCC.

For body worn operation, this model phone has been tested and meets the FCC RF exposure guidelines when used with a Samsung accessory designated for this product or when used with an accessory that contains no metal and that positions the handset a minimum of 1.5 cm from the body.

Non-compliance with the above restrictions may result in violation of FCC RF exposure guidelines.

SAR information on this and other model phones can be viewed on-line at <a href="http://www.fcc.gov/oet/ea/fccid/">http://www.fcc.gov/oet/ea/fccid/</a>. Please use the phone FCC ID number for search, A3LSMF707B.

Sometimes it may be necessary to remove the battery pack to find the number. Once you have the FCC ID number for a particular phone, follow the instructions on the website and it should provide values for typical or maximum SAR for a particular phone. Additional product specific SAR information can also be obtained at http://www.fcc.gov/encyclopedia/specific-absorption-rate-sar-cellular-telephones

#### **FCC Notice and Cautions**

**FCC Notice** 

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

- This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- -Reorient or relocate the receiving antenna.
- -Increase the separation between the equipment and receiver.
- -Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- -Consult the dealer or an experienced radio/TV technician for help.

The phone may cause TV or radio interference if used in close proximity to receiving equipment. The FCC can require you to stop using the phone if such interference cannot be eliminated.

Vehicles using liquefied petroleum gas (such as propane or butane) must comply with the National Fire Protection Standard (NFPA-58). For a copy of this standard, contact the National Fire Protection Association, One Battery march Park, Quincy, MA 02269, Attn: Publication Sales Division.

#### Cautions

Changes or modifications made in the radio phone, not expressly approved by Samsung, will void the user's authority to operate the equipment.

The use of any unauthorized accessories may be dangerous and void the phone warranty if said accessories cause damage or a defect to the phone.

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

# FCC Hearing Aid Compatibility (HAC) Regulations for Wireless Devices

The U.S. Federal Communications Commission (FCC) has established requirements for digital wireless mobile devices to be compatible with hearing aids and other assistive hearing devices.

When individuals employing some assistive hearing devices (hearing aids and cochlear implants) use wireless mobile devices, they may detect a buzzing, humming, or whining noise. Some hearing devices are more immune than others to this interference noise, and mobile devices also vary in the amount of interference they generate.

The wireless telephone industry has developed a rating system for wireless mobile devices to assist hearing device users find mobile devices that may be compatible with their hearing devices. Not all mobile devices have been rated. Mobile devices that are rated have the rating on their box or a label located on the box.

The ratings are not guarantees. Results will vary depending on the user's hearing device and hearing loss. If your hearing device happens to be vulnerable to interference, you may not be able to use a rated mobile device successfully. Trying out the mobile device with your hearing device is the best way to evaluate it for your personal needs.

**M-Ratings**: Wireless mobile devices rated M3 or M4 meet FCC requirements and are likely to generate less interference to hearing devices than mobile devices that are not labeled. M4 is the better/higher of the two ratings. M-ratings refer to enabling acoustic coupling with hearing aids that do not operate in telecoil mode.

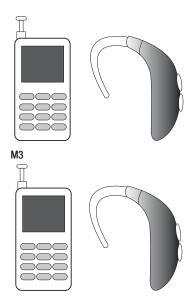
**T-Ratings**: Mobile devices rated T3 or T4 meet FCC requirements and are likely to generate less interference to hearing devices than mobile devices that are not labeled. T4 is the better/higher of the two ratings. T-ratings refer to enabling inductive coupling with hearing aids operating in telecoil mode.

Hearing devices may also be rated. Your hearing aid manufacturer or hearing health professional may help you find this rating. Higher ratings mean that the hearing device is relatively immune to interference noise.

Under the current industry standard, American National Standards Institute (ANSI) C63.19, the hearing aid and wireless mobile device rating values are added together to indicate how usable they are together. For example, if a hearing aid meets the M2 level rating and the wireless mobile device meets the M3 level rating, the sum of the two values equals M5.

Under the standard, this should provide the hearing aid user with normal use while using the hearing aid with the particular wireless mobile device. A sum of 6 or more would indicate excellent performance.

However, these are not guarantees that all users will be satisfied. T ratings work similarly.



The HAC rating and measurement procedure are described in the American National Standards Institute (ANSI) C63.19 standard.

# **HAC for Newer Technologies**

This phone has been tested and rated for use with hearing aids for some of the wireless technologies that it uses. However, there may be some newer wireless technologies used in this phone that have not been tested yet for use with hearing aids.

It is important to try the different features of this phone thoroughly and in different locations, using your hearing aid or cochlear implant, to determine if you hear any interfering noise. Consult your service provider or the manufacturer of this phone for information on hearing aid compatibility. If you have questions about return or exchange policies, consult your service provider or phone retailer.

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