Unpairing Bluetooth devices

1 Tap **Bluetooth** on the Settings screen.

The device displays the paired devices in the list.

2 Tap ⚙ next to the device name to unpair.

3 Tap **Unpair**.

Tethering and Mobile hotspot

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 **Tethering and Mobile hotspot**.

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.

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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 **Tethering and Mobile hotspot** → **Mobile hotspot**.

2 Tap the switch to activate it.

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

To set a password for the mobile hotspot, tap **MORE** → **Configure hotspot** and select the level of security. Then, enter a password and tap **SAVE**.

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

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

Flight mode

This disables all wireless functions on your device. You can use only non-network services.

On the Settings screen, tap **Flight mode**.

Data usage

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

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

- **Mobile data**: Set the device to use data connections on any mobile network.
- **Set mobile data limit**: Set a limit for mobile data usage.

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

Limiting data usage

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

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

3 Drag the warning adjustment bar upwards or downwards to set a data usage alert level.

The device will alert you when the warning level is reached.

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Mobile networks

Configure your mobile network settings.

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

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

More

Customise settings to control other features.

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

- **NFC**: Change settings for using the NFC feature. Refer to NFC for more information.
- **Printing**: Configure settings for printer plug-ins installed on the device. You can search for available printers or add one manually to print files. Refer to Printing for more information.
- **MirrorLink**: Use the MirrorLink feature to control your device's MirrorLink apps on the vehicle's head unit monitor. Refer to MirrorLink for more information.
- **Download booster**: Set the device to download files larger than 30 MB, faster via Wi-Fi and mobile networks simultaneously. Refer to Download booster for more information.
- **VPN**: Set up and connect to virtual private networks (VPNs).
- **Default messaging app**: Select the default app to use for messaging.

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NFC

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

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

Using the NFC feature

Use the NFC feature to send images or contacts to other devices, and read product information from NFC tags. If you insert a SIM or USIM card that has a payment feature, you can use the device to make payments conveniently.

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

2 Place the NFC antenna area on the back of your device near an NFC tag.

The information from the tag appears.

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TBD

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

Making payments with the NFC feature

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

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

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

To set the default payment app, tap **Tap and pay** and select an app.

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

Sending data

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

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

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

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

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

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

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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 **More** → **Printing** → **Download plug-in**.

2 Search for a printer plug-in in **Play Store**.

3 Select a printer plug-in and install it.

4 Select the printer plug-in and tap the switch to activate it.

The device searches for printers that are connected to the same Wi-Fi network as your device.

To add printers manually, tap **MORE** → **Add printer** → **ADD PRINTER**.

To change print settings, tap **MORE** → **Printing settings**.

Printing content

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

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MirrorLink

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

On the Settings screen, tap **More** → **MirrorLink**.

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

Connecting your device to a vehicle via MirrorLink

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

1 Pair your device with a vehicle via Bluetooth.

Refer to Pairing with other Bluetooth devices for more information.

2 Connect your device to the vehicle using a USB cable.

When they are connected, access your device's MirrorLink apps on the head unit monitor.

Ending the MirrorLink connection

Unplug the USB cable from your device and the vehicle.

Download booster

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

On the Settings screen, tap **More** → **Download booster**.

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

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Sound and notification

Change settings for various sounds on the device.

On the Settings screen, tap **Sound and notification**.

- **Volume**: Adjust the volume level for call ringtones, music and videos, system sounds, and notifications.
- **Ringtones and sounds**: Change the ringtone and system sound settings.
- **Vibrations**: Change the vibration settings.
- **Interruptions**: Change settings for managing interruptions.
- **Advanced**: Configure additional sound settings.
- **Notifications on lock screen**: Set whether or not to show the content of notifications on the locked screen.
- **App notification**: Change the notification settings for each app.
- **LED indicators**: Set the device to turn on the notification light when you have missed calls, messages, or notifications.

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Display

Change the display settings.

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

- **Brightness**: Adjust the brightness of the display.
- **Font**: Change the font size and type.
- **Screen timeout**: Set the length of time the device waits before turning off the display's backlight.
- **Smart stay**: Set the device to prevent the display backlight from turning off while you are looking at the display.
- **Screen mode**: Change the screen mode to adjust the display's colour and contrast.
- **Daydream**: Set the device to launch a screensaver when the device is charging or connected to a desktop dock.

Motions & gestures

Activate the motion recognition feature and change the settings that control motion recognition on your device.

On the Settings screen, tap **Motions & gestures**.

Excessive shaking or impact on the device may result in unintended inputs. Control motions properly.

- **Direct call**: Set the device to make a voice call by picking up and holding the device near your ear while viewing call, message, or contact details.
- **Smart alert**: Set the device to alert you if you have missed calls or new messages when you pick up the device.

This feature may not work if the screen is turned on or the device is not on a flat surface.

- **Mute**: Set the device to mute incoming calls or alarms by using palm motions or facing the device's screen downwards.
- **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.

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Applications

Manage the device's apps and change their settings.

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

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

Wallpaper

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

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

Themes

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

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

To download more themes, tap **STORE**.

Lock screen & security

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

On the Settings screen, tap **Lock screen & security**.

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

- **Screen lock type**: Change the screen lock method.
- **Show information**: Change settings for the items displayed on the locked screen.
- **Unlock effect**: Select an effect that you see when you unlock the screen.
- **Fingerprint**: Register your fingerprint to the device to secure the device or sign in to your Samsung account. Refer to Fingerprint recognition for more information.
- **Anti-malware**: Scan for and remove malware from the device. You can also activate the real-time scanning feature to block phishing attacks and malicious websites.
- **Find My Mobile**: Activate or deactivate the Find My Mobile feature. This feature can help you locate your device if it is lost or stolen. You can also access the Find my mobile website (findmymobile.samsung.com) to track and control your lost or stolen device.
- **Unknown sources**: Set the device to allow the installation of apps from unknown sources.
- **Other security settings**: Configure additional security settings.

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Fingerprint recognition

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

- Screen lock
- Web sign-in
- Verify Samsung account
- Pay with PayPal

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

For better fingerprint recognition

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

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

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Registering fingerprints

1 On the Settings screen, tap **Lock screen & security** → **Fingerprint** → **Add fingerprint**.

2 Place your finger on the Home key.

TBD

3 Lift your finger when the device vibrates, and then place it on the Home key again.

Repeat this action using the same finger until the fingerprint is registered.

TBD

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4 When a screen appears requesting to register a backup password, enter the backup password, and then tap **CONTINUE**.

5 Enter the backup password again to verify it, and then tap **OK**.

You can use the backup password instead of scanning your fingerprints.

6 When a fingerprint lock pop-up window appears, tap **OK**. You can use your fingerprints to unlock the screen.

Deleting fingerprints

You can delete registered fingerprints using the fingerprint manager.

1 On the Settings screen, tap **Lock screen & security** → **Fingerprint**.

2 Scan a registered fingerprint, or tap and enter the backup password.

3 Tap **EDIT**.

4 Tick fingerprints to deregister and tap **DELETE**.

Changing the backup password

You can change the password that you use as a backup to scanning your fingerprints.

1 On the Settings screen, tap **Lock screen & security** → **Fingerprint**.

2 Scan a registered fingerprint, or tap and enter the backup password.

3 Tap **Change backup password**.

4 Enter a new password and tap **CONTINUE**.

5 Enter the password again and tap **OK**.

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Verifying the Samsung account password

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

1 On the Settings screen, tap **Lock screen & security** → **Fingerprint**.

2 Scan a registered fingerprint, or tap and enter the backup password.

3 Tap the **Verify Samsung account** switch to activate it.

4 Sign in to your Samsung account.

Using fingerprints to sign in to accounts

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

1 On the Settings screen, tap **Lock screen & security** → **Fingerprint**.

2 Scan a registered fingerprint, or tap and enter the backup password.

3 Tap the **Web sign-in** switch to activate it.

4 Open a webpage that you want to sign in to with a fingerprint.

5 Enter your user name and password, and then tap the webpage's sign in button.

6 Tick **Sign in using your fingerprints** and tap **REMEMBER**.

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

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Using fingerprints for purchases via PayPal

You can make purchases by scanning your fingerprints.

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

1 On the Settings screen, tap **Lock screen & security** → **Fingerprint**.

2 Scan a registered fingerprint, or tap and enter the backup password.

3 Tap **Pay with PayPal**.

4 Tick **FIDO Ready™ support** and **PayPal**, and then tap **INSTALL**.

5 When the installation is complete, tap **LINK PayPal ACCOUNT**.

6 Follow the on-screen instructions to sign in to your PayPal account and register your fingerprints.

Privacy & safety

Change the settings for maintaining your privacy and safety.

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

- **Location**: Change settings for location information permissions.
- **Private mode**: Activate private mode to prevent others from accessing your personal content. Refer to Private mode for more information.
- **Report diagnostic info**: Set the device to automatically send the device's diagnostic and usage information to Samsung.
- **Send SOS messages**: Set the device to send help messages by pressing the Power key three times. You can also send sound recordings along with the message to the recipients. Refer to Send SOS messages for more information.

Private mode

Hide personal content in your device to prevent others from accessing it.

In private mode, you can hide items in **Gallery**, **Video**, **Music**, **Voice Recorder**, **My Files**, and **Internet**.

Activating private mode

1 On the Settings screen, tap **Privacy & safety** → **Private mode**, and then tap the switch to activate it.

If you are activating private mode for the first time, follow the on-screen instructions to set up a private mode access code.

2 Follow the on-screen instructions to enter the preset private mode access code.

Private mode is activated and the icon appears on the status bar.

You can view and access the hidden items only when private mode is activated. To hide items stored in the private folder, deactivate private mode.

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Hiding content

1 On the Apps screen, launch an app to hide items.

2 Select an item and tap **MORE** → **Move to Private**.

If private mode is not activated, follow the on-screen instructions to enter the preset private mode access code.

The selected items will be moved to the private folder.

Viewing hidden content

You can view hidden items only when private mode is activated.

1 On the Settings screen, tap **Privacy & safety** → **Private mode**, and then tap the switch to activate it.

2 Follow the on-screen instructions to enter the preset private mode access code.

3 On the Apps screen, tap **My Files** → **Private**.

All items moved in private mode appear on the screen.

Unhiding content

1 In the private folder, tap and hold an item, and then tick items to unhide.

2 Tap **MORE** → **Remove from Private**.

3 Select a folder to move the items to, and then tap **MOVE**.

The items will be moved to the selected folder.

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Automatically deactivating private mode

You can set the device to automatically deactivate private mode each time the screen turns off.

1 On the Settings screen, tap **Privacy & safety** → **Private mode**, and then tap the switch to activate it.

2 Follow the on-screen instructions to enter the preset private mode access code.

3 Tap the **Auto disable** switch to activate it.

When the **Auto disable** option is enabled, the device will fail to transfer files to the private folder if the screen turns off during transfer.

Send SOS messages

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

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

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

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

The **Attach pictures** option may not be available depending on the region or service provider.

Adding primary contacts

On the Settings screen, tap **Privacy & safety** → **Send SOS messages** → **Send messages to** → **ADD**. Tap **Create contact** and enter contact information or tap **Select from contacts** to add an existing contact as a primary contact.

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Easy mode

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

Switching to easy mode

1 On the Settings screen, tap **Easy mode** → **Easy mode**.

2 Select apps under **Easy applications** to apply a simpler layout.

3 Tap **DONE**.

Returning to standard mode

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

Managing shortcuts

To add a shortcut to an app to the Home screen, swipe to the left, tap ⊕, and then select an app.

To add a shortcut to a contact on the Home screen, swipe to the right and tap .

To delete a shortcut from the Home screen, tap **EDIT** and select an app or contact with ⊖.

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Accessibility

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

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

Accounts

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

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

Adding accounts

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

1 On the Settings screen, tap **Accounts** → **Add account**.

2 Select an account service.

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

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

Removing accounts

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

Registering Samsung accounts

You need a Samsung account when using some Samsung apps. You can back up or restore data saved in the device to your Samsung account. Register your Samsung account to the device to conveniently use Samsung services.

1 On the Settings screen, tap **Accounts** → **Add account**.

2 Tap **Samsung account**.

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

Once your Samsung account has been registered, you can use apps requiring your Samsung account without the sign in procedure.

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Backup and reset

Change the settings for managing settings and data.

On the Settings screen, tap **Backup and reset**.

- **Back up my data**: Back up your personal information and app data to the Samsung server. You can also set the device to automatically back up data.
- **Restore**: Restore previously backed up personal information and app data from your Samsung account.
- **Back up my data**: Set the device to back up settings and app data to the Google server.
- **Backup account**: Set up or edit your Google backup account.
- **Automatic restore**: Set the device to automatically restore settings and app data from the Google server when apps are reinstalled.
- **Factory data reset**: Reset settings to the factory default values and delete all data.

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Language and input

Change the settings for text input. Some options may not be available depending on the selected language.

On the Settings screen, tap **Language and input**.

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

Battery

View battery power information and change power saving options.

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

- **BATTERY USAGE**: View the amount of battery power consumed by your device.
- **Power saving mode**: Activate power-saving mode and change the settings for power-saving mode. Refer to Power saving mode for more information.
- **Ultra power saving mode**: Extend standby time and reduce battery consumption by displaying a simpler layout and allowing limited access to an app. Refer to Ultra power saving mode for more information.

The estimated maximum standby time shows the time remaining before the battery power runs out if the device is not used. Standby time may vary depending on your device settings and operating conditions.

- **Abnormal battery usage**: View a list of apps that are consuming an excessive amount of battery power.

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Storage

View memory information for your device.

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

The actual available capacity of the internal memory is less than the specified capacity because the operating system and default apps occupy part of the memory. The available capacity may change when you update the device.

Date and time

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

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

If the battery remains fully discharged or removed from the device, the time and date is reset.

- **Automatic date and time**: Automatically update the time and date when moving across time zones.
- **Automatic time zone**: Set the device to receive time zone information from the network when you move across time zones.
- **Set date**: Set the current date manually.
- **Set time**: Set the current time manually.
- **Select time zone**: Set the home time zone.
- **Use 24-hour format**: Display time in 24-hour format.
- **Select date format**: Select a date format.

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User manual

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

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

About device

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

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

Applications

Installing or uninstalling apps

Samsung GALAXY Apps

Purchase and download apps.

Tap **GALAXY Apps** on the Apps screen.

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

Installing apps

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

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

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

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Play Store

Purchase and download apps.

Tap **Play Store** on the Apps screen.

Installing apps

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

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

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

Managing apps

Uninstalling or disabling apps

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

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

Enabling apps

On the Apps screen, tap **Settings** → **Applications** → **Application manager**, scroll to **DISABLED**, select an app, and then tap **ENABLE**.

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Phone

Introduction

Make or answer voice and video calls.

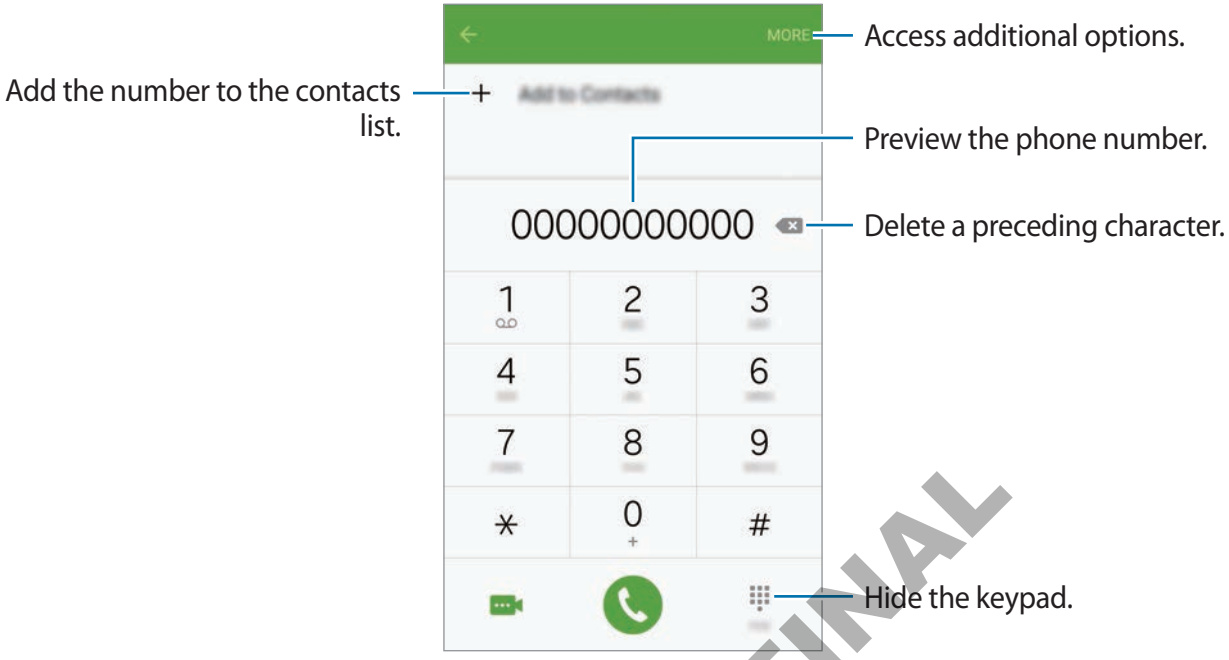
Making calls

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

2 Enter a phone number.

If the keypad does not appear on the screen, tap ⠿ to open the keypad.

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



Making calls from the locked screen

On the locked screen, drag outside the large circle.

Making calls from call logs or contacts list

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

Making an international call

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

2 Tap and hold **0** until the + sign appears.

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

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Receiving calls

Answering a call

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

Rejecting a call

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

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

To create various rejection messages, open the Apps screen and tap **Settings** → **Applications** → **Phone** → **Call rejection** → **Rejection messages**, enter a message, and then tap +.

Missed calls

If a call is missed, the icon appears on the status bar. Open the notification panel to view the list of missed calls. Alternatively, on the Apps screen, tap **Phone** → **LOGS** to view missed calls.

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Options during calls

During a voice call

The following actions are available:

- **Add call**: Dial a second call.
- **Extra volume**: Increase the volume.
- **Bluetooth**: Switch to a Bluetooth headset if it is connected to the device.
- **Speaker**: Activate or deactivate the speakerphone. When using the speakerphone, speak into the microphone at the top of the device and keep the device away from your ears.
- **Keypad** / **Hide**: Open or close the keypad.
- **Mute**: Turn off the microphone so that the other party cannot hear you.
- **Email**: Send an email.

- **Message**: Send a message.
- **Internet**: Browse webpages.
- **Contacts**: Open the contacts list.
- **S Planner**: Open the calendar.
- **Memo**: Create a memo.
- : End the current call.

During a video call

Tap the screen to use the following options:

- : Switch between the front and rear cameras.
- : End the current call.
- : Turn off the microphone so that the other party cannot hear you.

DRAFT, Not FINAL

Contacts

Introduction

Create new contacts or manage contacts on the device.

Adding contacts

Creating contacts manually

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

2 Tap and select a storage location.

3 Enter contact information.

- : Add an image.
- + / — : Add or delete a contact field.

4 Tap **SAVE**.

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

To add a phone number to the contacts list from received calls or messages, open the Apps screen and tap **Phone** → **LOGS** → a contact's image.

Importing contacts

Import contacts from storage services to your device.

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

Searching for contacts

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

Use one of the following search methods:

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

Once a contact is selected, take one of the following actions:

- : Add to favourite contacts.
- / : Make a voice or video call.
- : Compose a message.
- : Compose an email.

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Messages

Introduction

Send text messages (SMS) or multimedia messages (MMS) and view messages by conversation.

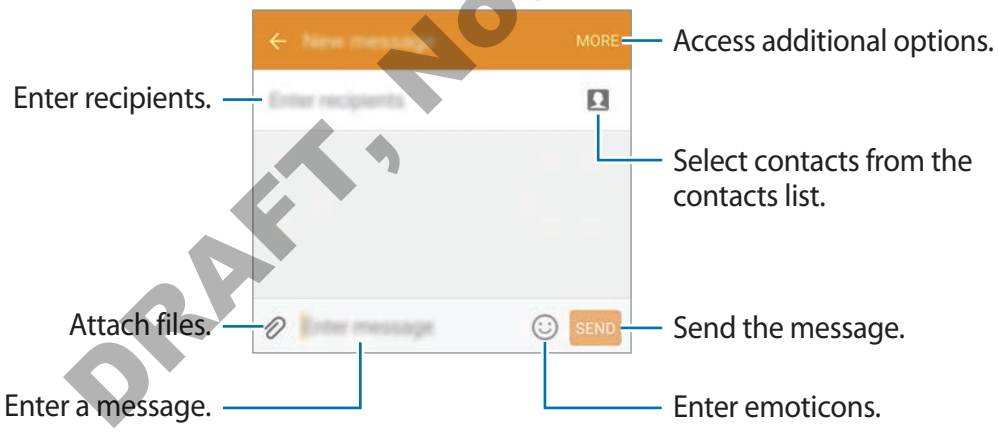
Sending messages

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

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

2 Tap .

3 Add recipients and enter a message.



4 Tap **SEND** to send the message.

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Viewing messages

Messages are grouped into message threads by contact.

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

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

2 On the messages list, select a contact.

3 View your conversation.

Internet

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

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

2 Tap the address field.

3 Enter the web address or a keyword, and then tap **Go**.

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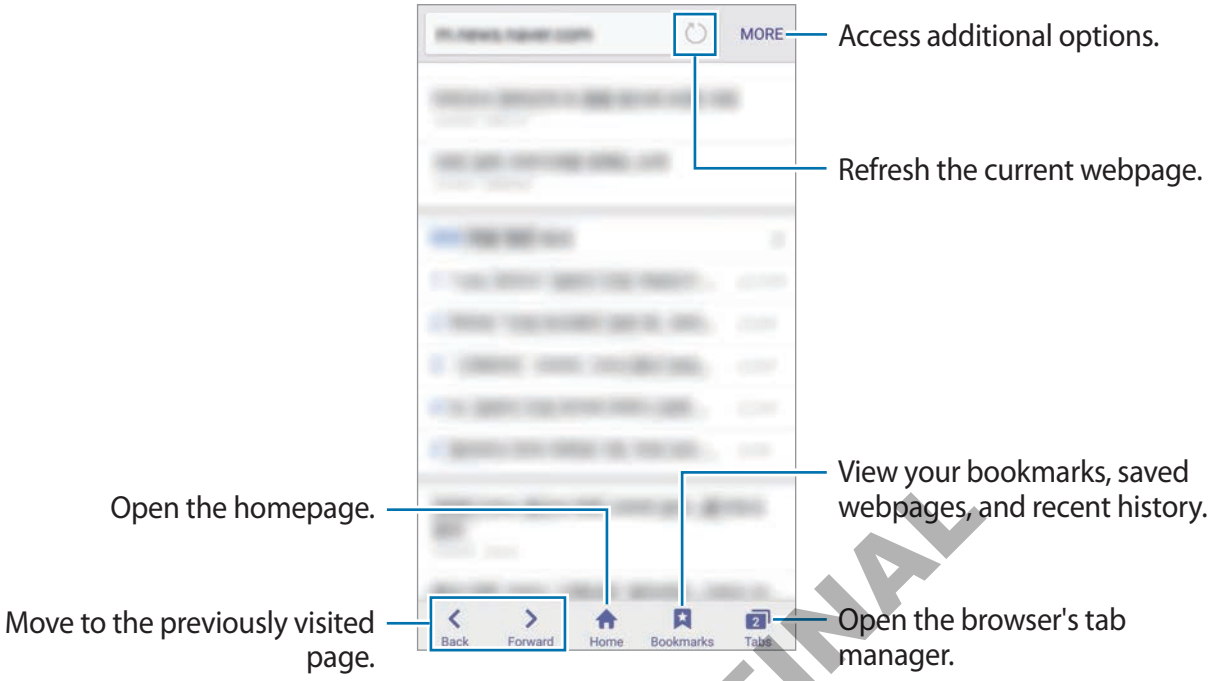
To view the toolbars, drag your finger downwards slightly on the screen.



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Email

Setting up email accounts

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

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

2 Enter the email address and password, and then tap **NEXT**.

To manually register a company email account, tap **MANUAL SETUP**.

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

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

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

Sending emails

1 Tap to compose an email.

2 Add recipients and enter an email text.

3 Tap **SEND** to send the mail.

Reading emails

On the emails list, tap an email to read.

Camera

Introduction

Take photos and record videos using various modes and settings.

Basic shooting

You can take photos or record videos. View your photos and videos in **Gallery**.

Tap **Camera** on the Apps screen.

Camera etiquette

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

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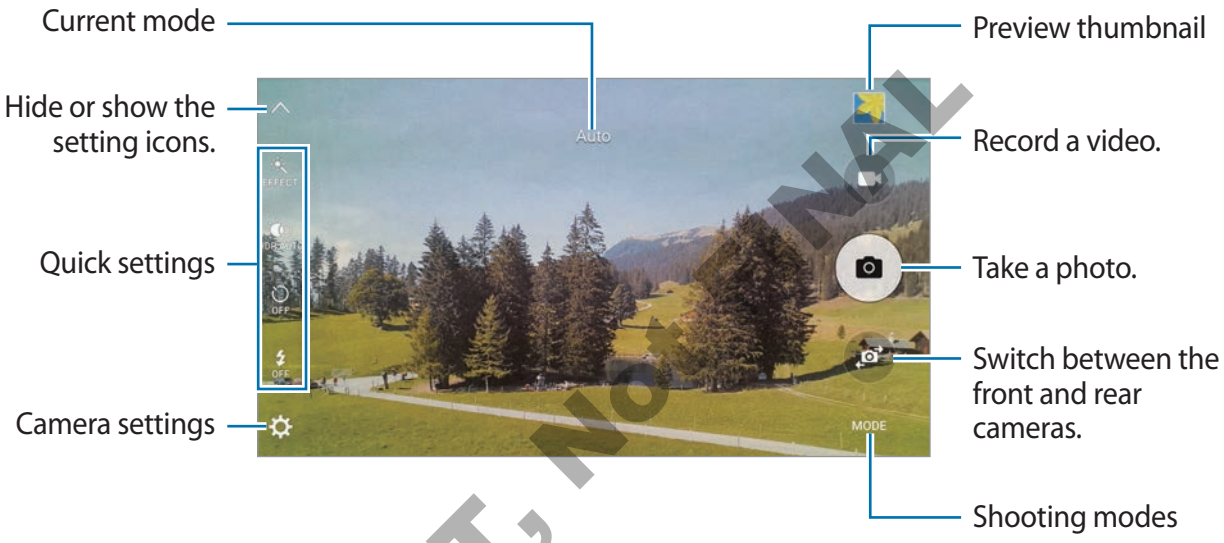
Taking photos or recording videos

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

2 Tap to take a photo or tap to record a video.

- Spread two fingers apart on the screen to zoom in, and pinch to zoom out.
- To capture an image from the video while recording, tap .
- To change the focus while recording a video, tap where you want to focus. To focus on the centre of the screen, tap .



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

- The preview screen may vary depending on the shooting mode and which camera is being used.
- The camera automatically shuts off when unused.
- Make sure that the lens is clean. Otherwise, the device may not work properly in some modes that require high resolutions.
- The front camera lens is suitable for taking wide-angle photos. Minor distortion may occur in wide-angle photos and does not indicate device performance problems.
- The maximum recording time may reduce when you record video at high resolution.

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Launching Camera on the locked screen

To quickly take photos, launch **Camera** on the locked screen.

On the locked screen, drag outside the large circle.

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

Launching Camera quickly

You can quickly launch **Camera** by pressing the Home key twice.

To automatically take a photo after quick launching **Camera**, open the preview screen and tap → **Quick open** → **Quick shot and open**.

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

HDR (Rich tone)

Take photos with rich colours and reproduce details even in bright and dark areas.

To activate or deactivate HDR mode, open the preview screen and tap until you reach the desired option.

- HDR AUTO : The device automatically activates or deactivates HDR mode depending on the shooting conditions.
- HDR ON : HDR mode is activated.

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- HDR OFF : HDR mode is deactivated.

Without effect

With effect

Tracking AF

Set the device to track and automatically focus on a selected subject, even when the subject is moving or when you change the shooting composition.

1 On the preview screen, tap ⚙ and tap the **Tracking AF** switch to activate it.

2 Tap ↩ to return to the preview screen.

3 Tap the subject you want to track.

4 Tap 📷 to take a photo or tap 🎥 to record a video.

Tracking a subject may fail in the following conditions:

- The subject is too big or too small.
- The subject moves excessively.
- The subject is backlit or you are shooting in a dark place.
- Colours or patterns on the subject and the background are the same.
- The subject includes horizontal patterns, such as blinds.
- The camera shakes excessively.

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Auto mode

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

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

Pro mode

Take photos in manual mode. You can adjust shooting options, such as exposure value and ISO value.

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

- : Select a colour effect. To customise the colour effect settings, tap **Custom 1** or **Custom 2** on the list of colour effects.
- : Change the focus mode. Drag the adjustment bar towards or to manually adjust the focus. To switch to auto focus mode, drag the adjustment bar towards **AUTO**.
- **WB** : Select an appropriate white balance, so images have a true-to-life colour range.
- **ISO** : Select an ISO value. This controls camera light sensitivity. Low values are for stationary or brightly lit objects. Higher values are for fast-moving or poorly lit objects. However, higher ISO settings can result in noise in photos.
- : Change the exposure value. This determines how much light the camera's sensor receives. For low-light situations, use a higher exposure.

Saving the current setting as a custom setting

On the preview screen, tap **Custom** → **Save current settings**, select a name, and then tap **SAVE**.

To apply the saved settings to the camera, open the preview screen, tap **Custom**, and then select a name.

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Separating the exposure area and the focus area

If bright light affects the contrast or the subject is outside the auto focus area, use this feature to achieve an appropriate exposure. You can separate the exposure and focus areas and select the exposure level you want for the subject.

1 On the preview screen, tap and hold the area to focus.

The AF/AE frame will appear on the focus area.

TBD

2 Tap and hold the AF/AE frame and drag it to the exposure area.

The exposure area will be separated from the focus area.

TBD

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Selective focus mode

Use the out-of-focus effect to make specific objects stand out in a photo.

1 On the preview screen, tap **MODE** → **Selective focus**.

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

3 Tap to take a photo.

4 Tap the preview thumbnail.

5 Tap and select one of the following:

- **Near focus**: Make the subject stand out and blur the background around the subject.
- **Far focus**: Blur the subject and make the background stand out around the subject.
- **Pan focus**: Make the subject and its background stand out.

6 Tap **SAVE**.

- It is recommended that you position subjects within 50 cm of the device. Position the subject that you want to focus on close to the device.
- When taking photos, ensure there is sufficient distance between the subject and the background. The distance should be more than three times the distance between the device and the subject.
- The quality of photos taken by the device can be affected in the following conditions:
  - The device or the subject is moving.
  - There is strong background light, low levels of light, or you are taking photos indoors.
  - The subject or background has no pattern, or consists of a plain colour.

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Panorama mode

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

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

To get the best shots using panorama mode, follow these tips:

- Move the camera slowly in one direction.
- Keep the image within the frame on the camera's viewfinder.
- Avoid taking photos of indistinct backgrounds, such as an empty sky or a plain wall.

Slow motion mode

Record a video in this mode to play it in slow motion.

On the preview screen, tap **MODE** → **Slow motion**, and then record a video.

Viewing the slow motion video

After recording a video in slow motion mode, you can set the device to play the video in slow motion.

1 On the preview screen, tap the preview thumbnail.

2 Tap .

The video will start playing with a randomly set slow motion section.

3 Tap to edit the slow motion section of the video.

4 Drag the start bracket and the end bracket to the desired point to trim segments of a video.

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5 Drag or to select the area of the video to be played in slow motion.

To set a slow motion section more precisely, tap and hold or , and then drag your finger to the left or right to move through the section frame by frame.

To add another slow motion section, tap the slow motion section → **Add**. To delete a section, tap a section → **Delete**.

To change the playback speed, tap a slow motion section and tap **Speed**.

TBD

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6 Tap to preview the video.

7 Tap **EXPORT** to save the video.

Fast motion mode

Record a video in this mode to play it in fast motion.

On the preview screen, tap **MODE** → **Fast motion**, and then record a video.

Viewing the fast motion video

After recording a video in fast motion mode, you can set the device to play the video in fast motion.

1 On the preview screen, tap the preview thumbnail.

2 Tap .

The video will start playing with a randomly set fast motion section.

3 Tap to edit the fast motion section of the video.

4 Drag the start bracket and the end bracket to the desired point to trim segments of a video.

5 Drag or to select the area of the video to be played in fast motion.

To set a fast motion section more precisely, tap and hold or , and then drag your finger to the left or right to move through the section frame by frame.

To add another fast motion section, tap the fast motion section → **Add**. To delete a section, tap a section → **Delete**.

To change the playback speed, tap a fast motion section and tap **Speed**.

TBD
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6 Tap to preview the video.

7 Tap **EXPORT** to save the video.

Virtual Shot mode

Take a series of photos while circling a subject to create a view of the subject from multi angles. You can view the subject from different angles by dragging your finger left or right on the photo.

1 On the preview screen, tap **MODE** → **Virtual Shot**.

2 Place a subject in the centre of the preview screen and tap .

3 Move the device around the subject slowly in one direction to take more photos.

TBD

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Viewing virtual shot photos

1 On the preview screen, tap the preview thumbnail.

2 Tap .

3 Drag your finger left or right on the screen, or slowly swivel the device left or right to view the subject from different angles.

Selfie mode

Take self-portraits with the front camera.

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

2 Tap **MODE** → **Selfie**.

3 Face the front camera lens.

4 Tap the sensor on the back of the device to take a photo of yourself. You can also tap the screen to take a photo.

To take a photo using your palm, tap and tap the **Palm selfie** switch to activate it. Show your palm to the front camera. After recognising your palm, the device will take a photo after two seconds.

TBD
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Wide selfie mode

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

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

2 Tap **MODE** → **Wide selfie**.

3 Face the front camera lens.

4 Tap the sensor on the back of the device to take a photo of yourself. You can also tap the screen to take a photo.

To take a photo using your palm, tap and tap the **Palm selfie** switch to activate it. Show your palm to the front camera. After recognising your palm, the device will take a photo after two seconds.

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

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

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TBD

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

Interval shot mode

Take series of self-portraits at an interval and save photos you want.

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

2 Tap **MODE** → **Interval shot**.

3 Tap the sensor on the back of the device to take a photo of yourself. You can also tap the screen to take a photo.

The device will take four photos at the two-second intervals.

To take a photo using your palm, tap and tap the **Palm selfie** switch to activate it. Show your palm to the front camera. After recognising your palm, the device will take a photo in two seconds.

4 Tick photos you want to save and tap **SAVE**.

Downloading modes

Download more shooting modes from **GALAXY Apps**.

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

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Camera settings

Quick settings

On the preview screen, use the following quick settings.

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

- EFFECT : Select a filter effect to use when taking photos or recording videos. To download more effects, tap **Download**.
- HDR AUTO : Use this to take photos with rich colours and reproduce details even in bright and dark areas.
- METERING : Select a metering method. This determines how light values are calculated. **Centre-weighted** measures background light in the centre of the scene. **Spot** measures the light value at a specific location. **Matrix** averages the entire scene.
- OFF : Select the length of the delay before the camera automatically takes a photo.
- BEAUTY : Adjust the slide bar to take a photo with lightened faces for gentler images.
- OFF : Activate or deactivate the flash.

Camera settings

On the preview screen, tap ⚙.

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

- **Rear camera picture size** / **Front camera picture size**: Select a resolution for photos. Using a higher resolution will result in higher quality photos, but they will take up more memory.
- **Rear camera video size** / **Front camera video size**: Select a resolution for videos. Using a higher resolution will result in higher quality photos, but they will take up more memory.
- **Palm selfie**: Set the device to detect your palm, so you can use it to take self-portraits.
- **Save as flipped**: Invert the image to create a mirror-image of the original scene, when taking photos with the front camera.

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- **Tracking AF**: Set the device to track and automatically focus on a selected subject, even when the subject or camera moves.
- **Video stabilisation**: Activate anti-shake to reduce or eliminate blurriness resulting from camera shake while recording a video.
- **Grid lines**: Display viewfinder guides to help composition when selecting subjects.
- **Location tags**: Attach a GPS location tag to the photo.

- To improve GPS signals, avoid shooting in locations where the signal may be obstructed, such as between buildings or in low-lying areas, or in poor weather conditions.
- Your location may appear on your photos when you upload them to the Internet. To avoid this, deactivate the location tag setting.

- **Volume keys**: Set the device to use the Volume key to control the shutter or zoom function.
- **Voice control**: Set the device to take photos or record videos with voice commands. You can say "Smile", "Cheese", "Capture", or "Shoot" to take a photo. To record a video, say "Record video."
- **Review pictures**: Set the device to show photos after capturing them.
- **Quick open**: Set the device to quickly launch the camera by pressing the Home key twice. You can also set the device to take a photo after quick launching the camera.
- **Reset settings**: Reset the camera settings.

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Gallery

Introduction

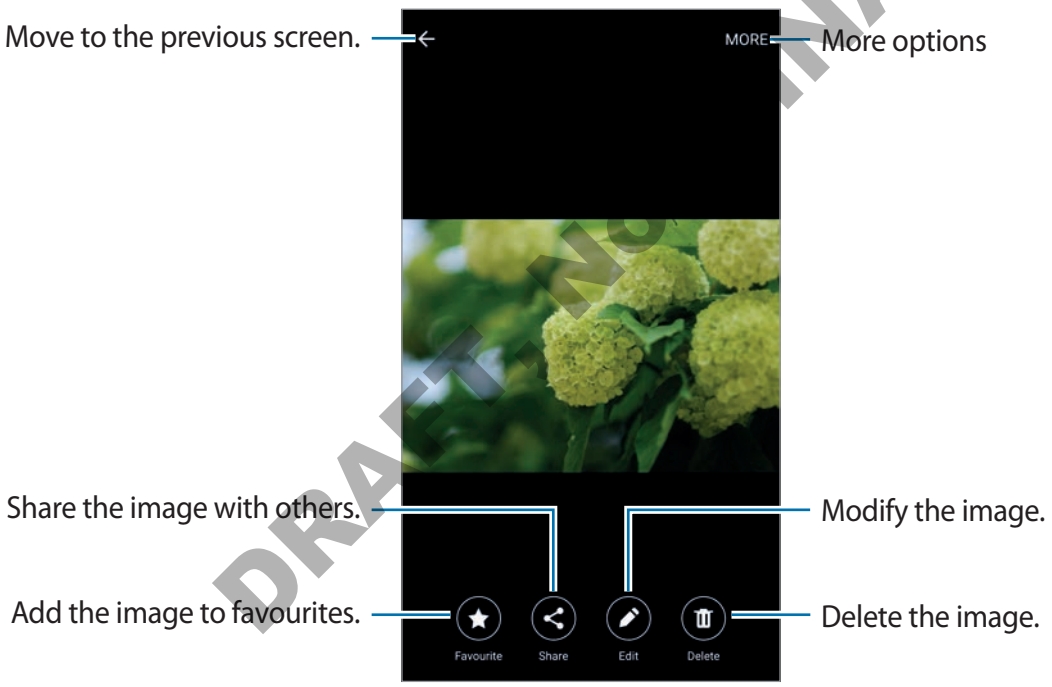
View and manage photos and videos stored in the device.

Viewing images or videos

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

2 Select an image or a video.

Video files show the icon on the preview thumbnail. To play a video, tap .



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To hide or show the menus, tap the screen.

Deleting images or videos

Deleting an image or a video

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

Deleting multiple images and videos

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

2 Tick the images or videos to delete.

3 Tap **DELETE**.

Smart Manager

Introduction

The Smart manager provides an overview of the status of your device's battery, storage, RAM, and system security. You can also automatically optimise the device with one tap of your finger.

Using the quick optimisation feature

On the Apps screen, tap **Smart Manager** → **CLEAN NOW**.

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

- Identifying apps that use excessive battery power and deleting unnecessary files.
- Deleting unwanted files and closing apps running in the background.
- Scanning for malware and phishing attacks.

Using the Smart manager

On the Apps screen, tap **Smart Manager** and select a feature.

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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 and closing apps that are consuming an excessive amount of battery power.

Storage

Check the status of used and available memory capacity. You can delete unused and residual files or uninstall apps that you do not use any more.

RAM

Check the amount of available RAM. You can close background apps and reduce the amount of RAM you are using to speed up your device.

Device guard

Check the device's security status. This feature scans your device for malware and blocks phishing attacks and malicious websites.

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S Planner

Introduction

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

Creating events

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

2 Tap + or double-tap a date.

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

3 Enter event details.

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

Creating tasks

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

2 Tap ▼ → **Tasks**.

3 Enter task details and tap **TODAY** or **TOMORROW** to set a due date.

To add more details, tap ⤢.

4 Tap **SAVE** to save the task.

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Syncing events and tasks with your accounts

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

To add accounts to sync with, open the Apps screen and tap **S Planner** → **MORE** → **Manage calendars** → **Add account**. Then, select an account to sync with and sign in. When an account is added, a green circle is displayed next to the account name.

S Health

Introduction

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

Starting S Health

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

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

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

Based on your physical statistics, the device calculates your standard basal metabolic rate (BMR) and recommends a daily calorie intake. The recommendation may not be accurate for all ages, body compositions, or nutritional needs.

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Using S Health

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

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

View a variety of health information using the S Health dashboard and trackers.

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- **GOALS**: Set your fitness goals and view your progress.
- **PROGRAMS**: Use customisable exercise programmes.
- **TRACKERS**: Keep track of your overall fitness, such as food intake and step count.

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

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

Additional information

- The purpose for such data collection is limited to providing the service that you have requested, including providing additional information to enhance your wellness, back up/sync data, data analysis and statistics or to develop and provide better services. (But if you sign in to your Samsung account from S Health, your data may be saved on the server for data backup purposes.) Personal information may be stored until the completion of such purposes. You can delete personal data stored by S Health by using the Reset data option in the Settings menu. To delete any data you have shared with social networks or transferred to storage devices, you must delete them separately.
- You assume full responsibility for the inappropriate use of data shared on social networks or transmitted to others. Use caution when sharing your personal data with others.
- If the device is connected to measuring devices, verify the communication protocol to confirm proper operation. If you use a wireless connection, such as Bluetooth or ANT+, the device may be affected by electronic interference from other devices. Avoid using the device near other devices that transmit radio waves.
- The content used in the S Health app may vary depending on the software version of the app. The services provided with the app are subject to change or the cancellation of support without prior notice.
- Available S Health functions and services may vary depending on the local laws and regulations in your region.
- Some functions of S Health may not be provided depending on your region.
- S Health functions are intended for fitness and informational 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.

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S Voice

Introduction

Perform various tasks simply by speaking.

Setting a wake-up command

You can launch **S Voice** using your own wake-up command.

When launching **S Voice** for the first time, tap **START** and set your own wake-up command.

To change the wake-up command, open the Apps screen and tap **S Voice**. Then, tap ⚙ → **Voice wake-up** → **Set Wake up Command** and follow the on-screen instructions.

Using S Voice

1 Say the preset wake-up command.

Alternatively, tap **S Voice** on the Apps screen.

When **S Voice** is launched, the device begins voice recognition.

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

2 Say a voice command.

If the device recognises the command, the device will perform the corresponding action. To repeat a voice command or say a different command, tap 🎙.

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

Tips for better voice recognition

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

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

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Setting the language

Tap ⚙ → **Language**, and then select a language.

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

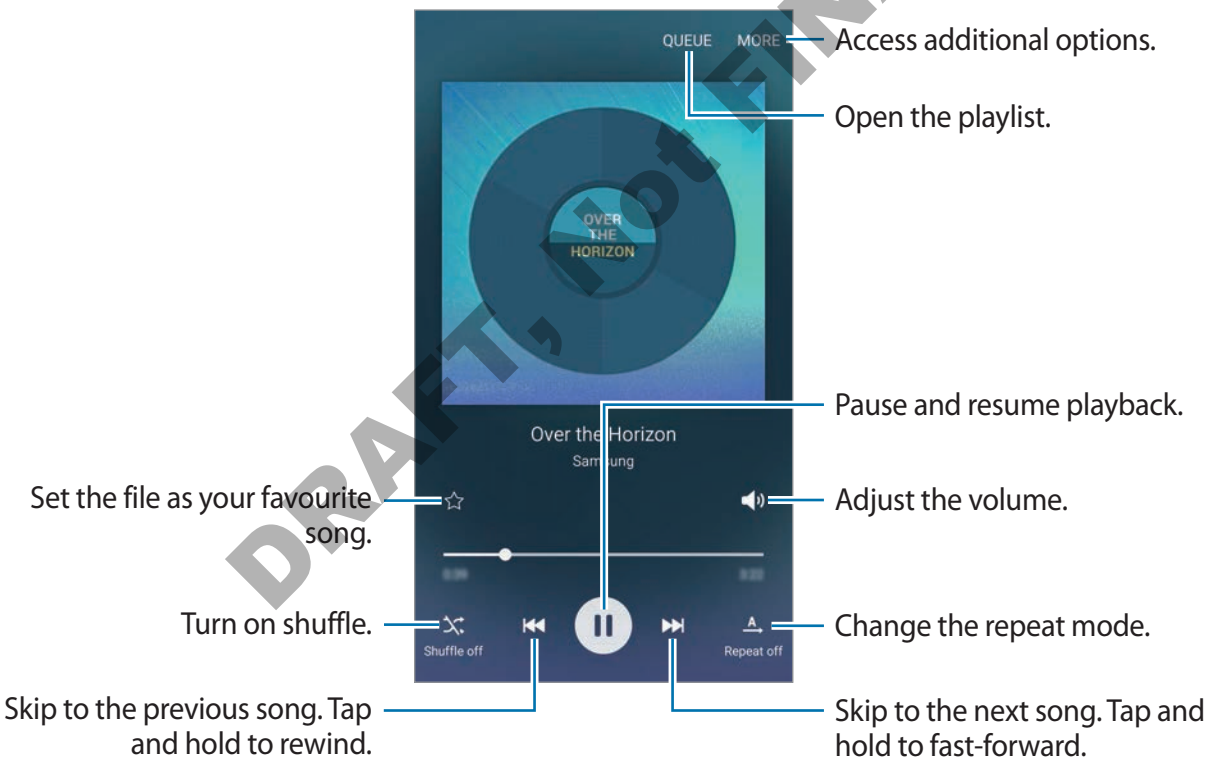
Music

Listen to music sorted by category and customise playback settings.

Tap **Music** on the Apps screen.

Tap ▼, select a category, and then select a song to play.

Tap the album image at the bottom of the screen to open the music player screen.



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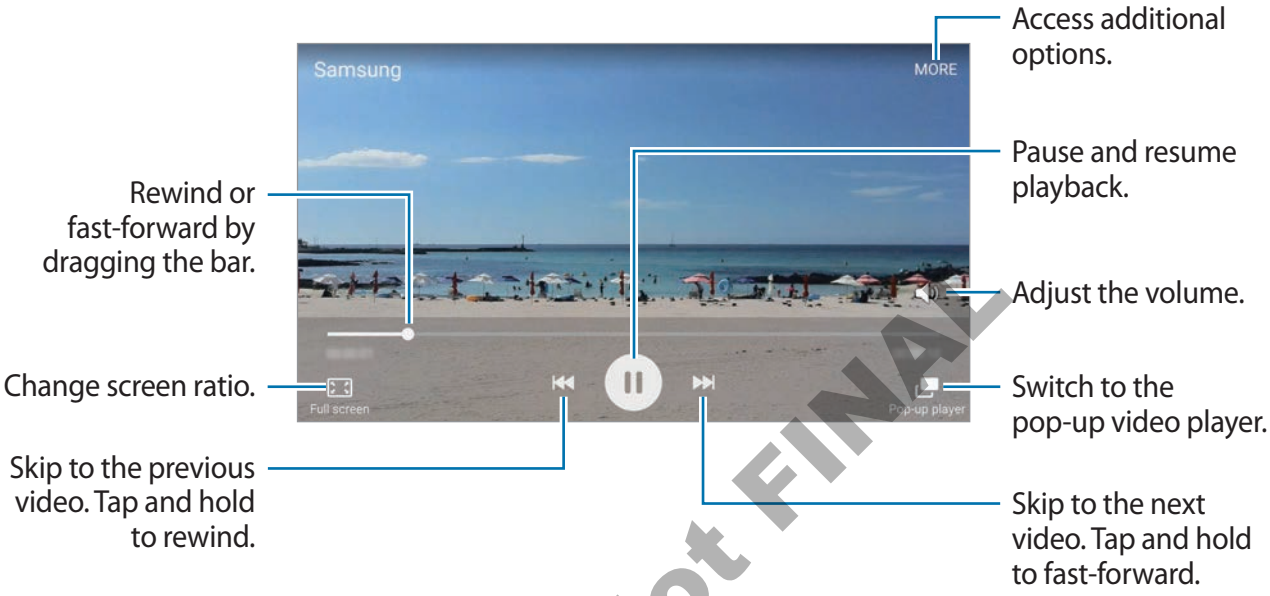
Video

Watch videos stored in the device and customise playback settings.

Tap **Video** on the Apps screen.

Select a video to play.



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.

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Voice Recorder

Introduction

Use different recording modes for various situations, such as in an interview. The device can convert your voice to text and distinguish between sound sources.

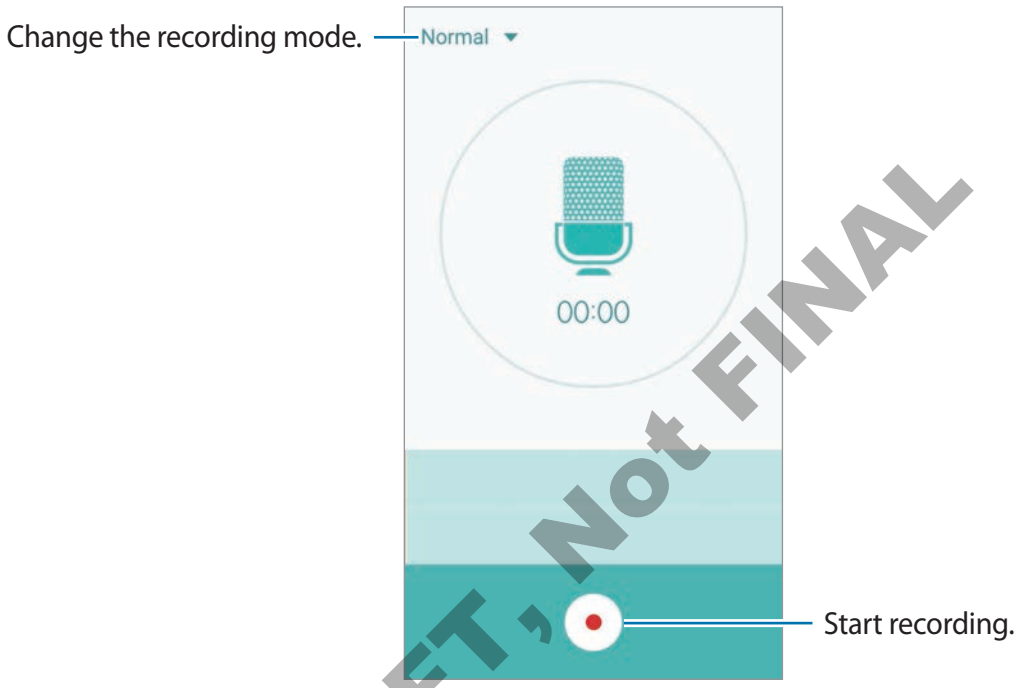
Recording voice memos

1 Tap **Voice Recorder** on the Apps screen.

2 Tap ⊙ to start recording. Speak into the microphone.

Tap **Pause** to pause recording.

While recording a voice memo, tap **Bookmark** to insert a bookmark.



3 Tap ⊡ to finish recording.

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Changing the recording mode

Tap ▼ to select a mode from the list.

- **Normal**: This is the normal recording mode. Voice memos recorded in this mode appear with the icon next to them.
- **Interview**: The microphone is sensitive to sounds from two directions. In this mode, both the top and the bottom of the device pick up equal amounts of sound. Voice memos recorded in this mode appear with the icon next to them.

- **Voice memo**: The device records your voice and simultaneously converts it to on-screen text. For best results, keep the device near your mouth and speak loudly and clearly in a quiet place. Voice memos recorded in this mode appear with the icon next to them.

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 memos

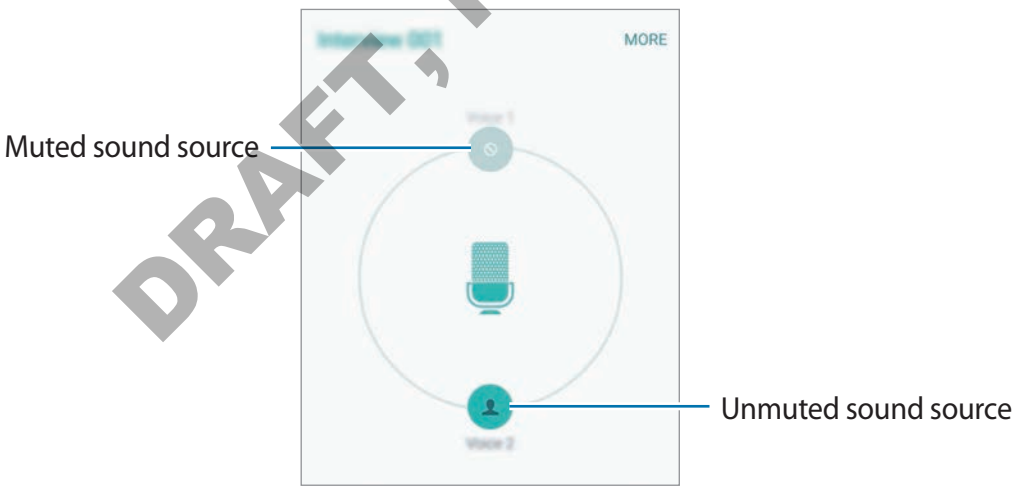
When you review interview recordings, you can mute or unmute certain sound sources in the recording.

1 Tap **Voice Recorder** on the Apps screen.

2 Tap **Recordings** and select a voice memo recorded in interview mode.

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

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



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My Files

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

Tap **My Files** on the Apps screen.

- **Category**: View files by category.
- **Local storage**: View files stored in the device.
- **Cloud storage**: View files stored in the cloud storage service.
- **STORAGE USAGE**: View your device's memory information.

To search for files or folder, tap **SEARCH**.

Memo

Create memos and organise them by category.

Tap **Memo** on the Apps screen.

Composing memos

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

- **Category**: Create or set a category.
- **Image**: Insert images.
- **Voice**: Make a voice recording to insert.
- **Tasks**: Add tick boxes at the beginning of each row to create a list of tasks.

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

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

Searching for memos

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

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Clock

Introduction

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

Alarm

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

Setting alarms

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

To select a sound mode, tap ▼ and select an option.

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

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 ✕ on an alarm in the list of alarms.

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World clock

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

Creating clocks

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

Deleting clocks

Tap ✕ on a clock.

Stopwatch

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

2 Tap **START** to time an event.

To record lap times while timing an event, tap **LAP**.

3 Tap **STOP** to stop timing.

To restart the timing, tap **RESUME**.

To clear lap times, tap **RESET**.

Timer

1 On the Apps screen, tap **Clock** → **Timer**.

2 Set the duration, and then tap **START**.

3 Tap **DISMISS** when the timer goes off.

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Calculator

Perform simple or complex calculations.

Tap **Calculator** on the Apps screen.

Rotate the device to landscape orientation to display the scientific calculator. If **Screen rotation** is disabled, open the notification panel and tap **Screen rotation** to activate it.

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

To clear the history, tap **HISTORY** → **CLEAR HISTORY**.

Google apps

Google provides entertainment, social network, and business apps. You may require a Google account to access some apps. Refer to Accounts for more information.

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

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

Chrome

Search for information and browse webpages.

Gmail

Send or receive emails via the Google Mail service.

Maps

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

Play Music

Discover, listen to, and share music on your device.

Play Movies & TV

Watch videos stored on your device and download various content to watch from the **Play Store**.

Play Books

Download various books from **Play Store** and read them.

Play Newsstand

Read news and magazines that interest you in one convenient location.

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Play Games

Download games from **Play Store** and play them with others.

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.

Hangouts

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

Google

Search quickly for items on the Internet or your device.

Voice Search

Search quickly for items by saying a keyword or phrase.

Google Settings

Configure settings for some features provided by Google.

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Microsoft apps

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

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

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

Office Mobile

View and edit documents in various formats.

OneDrive

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

OneNote

Create and share your notes with others.

Skype

Make voice or video calls to your friends over the Internet. You can also chat with your friends individually or in groups.

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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.

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

Using the Home key to open accessibility menus

You can access the following accessibility menus by pressing the Home key three times quickly.

- Accessibility
- Galaxy Talkback
- Universal switch
- Negative colours
- Greyscale
- Colour adjustment
- Interaction control
- Page reader
- Magnifier

On the Apps screen, tap **Settings** → **Accessibility** → **Direct access**, and then tap the switch to activate it. Then, select an accessibility menu to open when you press the Home key three times quickly.

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Voice feedback (TalkBack)

Activating or deactivating TalkBack

When you activate TalkBack, the device reads aloud the text on the screen or selected features when you tap it once.

On the Apps screen, tap **Settings** → **Accessibility** → **Vision** → **Galaxy Talkback**, and then tap the switch to activate it. The device will start voice feedback.

To deactivate TalkBack, tap the switch and tap anywhere on the screen twice quickly.

When you activate TalkBack for the first time, the tutorial will start after activation. You can replay it by tapping **Galaxy Talkback tutorial**.

Some features are not available while you are using TalkBack.

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Controlling the screen with finger gestures

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

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: Move to the previous item.
- Swiping to the right: Move to the next item.
- Swiping upwards or downwards: On the contextual menu, use an option or change settings for the option. In text selection mode, move the cursor backwards or forwards to select text.

- 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: Pause or resume voice feedback.
- Tapping twice: Start, pause, or resume playback.
- Tapping three times: Check the current time, remaining battery power, and mode.
  To change items that are read aloud, open the Apps screen and tap **Settings** → **Accessibility** → **Vision** → **Galaxy Talkback** → **SETTINGS** → **Indicator information**.
- Double-tapping and holding the screen: Enable or disable text selection mode.
- Swiping to the left: Move to the next page. In text selection mode, copy the selected text.
- Swiping to the right: Return to the previous page. In text selection mode, paste the copied text.
- Swiping upwards: Scroll up the list. In text selection mode, cut the selected text.
- Swiping downwards: Scroll down the list. In text selection mode, select all text.
- 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.

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Using the contextual menu

While you are using TalkBack, 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 **Media Volume**, you can adjust the volume 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 view the labels, open the Apps screen and tap **Settings** → **Accessibility** → **Vision** → **Galaxy Talkback** → **SETTINGS** → **Manage custom labels**.

Configuring settings for TalkBack

Configure settings for TalkBack for your convenience.

On the Apps screen, tap **Settings** → **Accessibility** → **Vision** → **Galaxy Talkback** → **SETTINGS**.

- **Speech volume**: Adjust the volume level for voice feedback.
- **Speech rate**: Select a speed for voice feedback.
- **Use pitch changes**: Set the device to read aloud text at a low pitch when it is entered using a keyboard.
- **Keyboard echo**: Set the device to read aloud a word that you enter using a keyboard when you tap the space key.
- **Speak when screen is off**: Set the device to provide voice feedback when the screen is turned off.
- **Use proximity sensor**: Set the device to pause voice feedback when you place your hand over the sensor at the top of the device.
- **Shake to start 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 speeds.

DRAFT. Not FINAL

- **Vibration feedback**: Set the device to vibrate when you explore the screen.
- **Sound feedback**: Set the device to emit a sound when you control the screen, such as scrolling the screen, and more.
- **Focus speech audio**: Set the device to turn the media volume down when the device reads an item aloud.
- **Sound volume**: Adjust the volume that sound is played when you touch the screen to control it. This feature is available when **Sound feedback** is selected.
- **Explore by touch**: Set the device to read aloud the items under your finger.
- **Single-tap selection**: Set the device to open the selected item by tapping it once.
- **Back/Recent key feedback**: Set the device to provide voice feedback when you tap ▭ or ↩ once. Tap ▭ or ↩ twice to activate them.
- **Manage custom labels**: View the labels you added.
- **Indicator information**: Select items to read aloud when you tap the screen three times with two fingers.
- **Developer settings**: Set options for app development.

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Using the device with the screen turned off

Set the device to turn the screen off at all times to keep the content on your screen private. The screen does not turn on when you press the Home key or tap the screen. Currently activated features do not turn off when the screen is off.

On the Apps screen, tap **Settings** → **Accessibility** → **Vision**, and then tap the **Dark screen** switch to activate it. You can activate or deactivate this feature by pressing the Power key twice.

Reading passwords aloud

Set the device to read the password aloud when you enter the password while TalkBack is activated.

On the Apps screen, tap **Settings** → **Accessibility** → **Vision**, and then tap the **Speak passwords** switch to activate it.

Setting text-to-speech features

Change the settings for text-to-speech features used when TalkBack is activated, such as languages, speed, and more.

On the Apps screen, tap **Settings** → **Accessibility** → **Vision** → **Text-to-speech options**, and then use the following functions:

- **Preferred TTS engine**: Select an engine for the text-to-speech feature.
- **Speech rate**: Adjust the speed for the text-to-speech feature.
- **Default language status**: View the status of the current language set for the text-to speech feature.

Entering text using the keyboard

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

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 **Rapid key input** is not activated, release your finger from the character you want, and then tap anywhere on the screen twice quickly. To activate the rapid key input feature, open the Apps screen, tap **Settings** → **Accessibility** → **Vision**, and then tap the **Rapid key input** switch to activate it.

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.

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Vision

Writing voice memos 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 memo to an NFC-enabled voice label. The voice memo is played back when you place your device near the label.

Turn on the NFC feature before using this feature.

1 On the Apps screen, tap **Settings** → **Accessibility** → **Vision** → **Voice label**.

The voice recorder will start.

2 When you are finished recording, tap ■ to stop.

3 Hold the back of your device over the voice label.

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

Using the page reader

Set the device to launch the page reader and to read the screen aloud.

1 On the Apps screen, tap **Settings** → **Accessibility** → **Vision**, and then tap the **Page reader** switch to activate it.

2 Tap and hold the screen with three fingers.

The page reader controller will appear.

3 Tap ▶ to start reading the screen.

To adjust the speed, tap ⊖ or ⊕.

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Changing the font size

Change the font size displayed on the screen. Setting the font size to **Large** may not be available in some apps.

On the Apps screen, tap **Settings** → **Accessibility** → **Vision** → **Larger font**, and then tap the **Larger font** switch to activate it.

Magnifying the screen

Magnify the screen and zoom in on a specific area.

On the Apps screen, tap **Settings** → **Accessibility** → **Vision** → **Magnification gestures**, and then tap the switch to activate it.

- Zooming in and out: Quickly tap the screen three times to zoom in on a specific area. Quickly tap the screen three times again to return to the normal view.
- Exploring the screen by scrolling: Drag two or more fingers across the magnified screen.
- Adjusting 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. While holding the screen, drag your finger to explore the screen. Release your finger to return to the normal view.

- Keyboards on the screen cannot be magnified.
- When this feature is activated, the performance of some apps, such as **Phone** and **Calculator**, may be affected.

DRAFT, Not FINAL

Using a magnifier

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

On the Apps screen, tap **Settings** → **Accessibility** → **Vision** → **Magnifier**, and then tap the switch to activate it. The magnifier will appear on the screen.

Tap ◯ and move the magnifier to where you want to zoom in on the screen.

Converting the screen to greyscale mode

Display colours on the screen as grey tones.

On the Apps screen, tap **Settings** → **Accessibility** → **Vision**, and then tap the **Greyscale** switch to activate it.

Reversing the display colours

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

On the Apps screen, tap **Settings** → **Accessibility** → **Vision**, and then tap the **Negative colours** 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.

On the Apps screen, tap **Settings** → **Accessibility** → **Vision** → **Colour adjustment**, and then tap the switch to activate it. Follow the on-screen instructions to complete the colour adjustment procedure.

DRAFT, Not FINAL

Hearing

Sound detectors

Set the device to vibrate when it detects your doorbell or a baby crying.

Baby crying detector

On the Apps screen, tap **Settings** → **Accessibility** → **Hearing** → **Sound detectors**, and then tap the **Baby crying detector** switch to activate it. The device will vibrate when it detects sound and the alert will be saved as a log.

Doorbell detector

1 On the Apps screen, tap **Settings** → **Accessibility** → **Hearing** → **Sound detectors**, and then tap the **Doorbell detector** switch to activate it.

2 Tap ● to make a recording of your doorbell.

The device will detect and record the doorbell.

3 Tap ● and ring your doorbell to check if it is recorded correctly. When the device detects the doorbell sound, tap **OK**.

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

The device will vibrate when it detects sound and the alert will be saved as a log.

Setting flash notification

Set the flash to blink when you have incoming calls, new messages, or notifications.

On the Apps screen, tap **Settings** → **Accessibility** → **Hearing**, and then tap the **Flash notification** 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.

On the Apps screen, tap **Settings** → **Accessibility** → **Hearing**, and then tap the **Turn off all sounds** switch to activate it.

Caption settings

On the Apps screen, tap **Settings** → **Accessibility** → **Hearing** → **Samsung subtitles (CC)** or **Google subtitles (CC)**, and then tap the switch to activate it.

Select an option for configuring the caption settings.

DRAFT - Not FINAL

Adjusting the sound balance

Set the device to adjust the sound balance when using a headset.

1 Connect a headset to the device and wear it.

2 On the Apps screen, tap **Settings** → **Accessibility** → **Hearing** → **Sound balance**.

3 Drag the adjustment bar to the left or right and adjust the sound balance, and then tap **SET**.

Mono audio

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

On the Apps screen, tap **Settings** → **Accessibility** → **Hearing**, and then tap the **Mono audio** switch to activate it.

Auto haptic

When the auto haptic feature is activated, the device will vibrate with the sound when playing music, watching videos, or playing games. It will also vibrate when buttons are tapped in supported apps.

On the Apps screen, tap **Settings** → **Accessibility** → **Hearing**, and then tap the **Auto haptic** switch to activate it.

Some apps may not support this feature.

DRAFT, Not FINAL

Dexterity and interaction

Universal switch

Set the device to scan and highlight items on the screen, and then read them aloud. You can control the touchscreen by connecting an external switch, tapping the screen, or by using head movements and face gestures.

On the Apps screen, tap **Settings** → **Accessibility** → **Dexterity and interaction** → **Universal switch**, and then tap the switch to activate it. 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 **SETTINGS** → **Switch**.

To quickly deactivate this feature, press the Home key three times.

DRAFT, Not FINAL

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 On the Apps screen, tap **Settings** → **Accessibility** → **Dexterity and interaction** → **Assistant menu**.

2 Tap the switch to activate it.

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

3 Tap **Dominant hand** to move the assistive shortcut icon to a convenient location.

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 up or down arrow to move to other panels or swipe upwards or downwards 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:

- « / » : Select an item or scroll left or right on the screen.
- ⌃ / ⌄ : Scroll up or down the screen.
- ⊕ : Magnify the area where the cursor is located.
- ✥ : Move the touch area to another location.
- ✕ : Close the touch area.

To change the cursor settings, open the Apps screen, tap **Settings** → **Accessibility** → **Dexterity and interaction** → **Assistant menu**. Then, customise settings in **Touchpad and cursor settings**.

Using enhanced assistive menus

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

On the Apps screen, tap **Settings** → **Accessibility** → **Dexterity and interaction** → **Assistant menu** → **Assistant plus**, tap the switch to activate it, and then select apps.

Turning on the screen with the air gesture feature

Use the air gesture feature to turn on the screen by moving your hand above the sensor at the top of the device. You can turn on the screen without pressing a key. When you use this feature, place the device on a flat surface with the screen facing upwards or hold the device securely to prevent it from moving.

On the Apps screen, tap **Settings** → **Accessibility** → **Dexterity and interaction** → **Air wake up**, and then tap the switch to activate it.

Setting tap and hold delay options

Set the recognition time for tapping and holding the screen.

On the Apps screen, tap **Settings** → **Accessibility** → **Dexterity and interaction** → **Tap and hold delay**, and then select an option.

DRAFT, Not FINAL

Interaction control

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

1 On the Apps screen, tap **Settings** → **Accessibility** → **Dexterity and interaction** → **Interaction control**.

2 Tap the switch to activate it.

3 Press and hold the Home key and the Volume key down 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 hard keys will be disabled.

To deactivate interaction control mode, press and hold the Home key and the Volume key down simultaneously.

DRAFT, Not FINAL

Direction Lock

Create a directional combination to unlock the screen.

1 On the Apps screen, tap **Settings** → **Accessibility** → **Direction Lock** and tap the switch to activate it.

2 Drag your finger up, down, left, or right more than four times, and then tap **CONTINUE**.

3 Draw the direction combination again to verify it and tap **CONFIRM**.

4 Set a backup PIN to unlock the screen in case you forget the combination.

Setting notification reminders

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

On the Apps screen, tap **Settings** → **Accessibility** → **Notification reminder**, and then tap the switch to activate it.

To set the device to vibrate when you have unchecked notifications, tick **Vibrate**.

To set the device to turn on the notification light when you have unchecked notifications while the screen is turned off, tick **LED indicator**.

To set an interval between alerts, tap **Reminder interval**.

To set apps to alert you to notifications, tick apps under **Select applications**.

Answering or ending calls

Change the method of answering or ending calls.

On the Apps screen, tap **Settings** → **Accessibility** → **Answering and ending calls**.

Select the desired method.

Using single tap mode

When an alarm sounds or a call comes in, tap the button to stop the alarm or answer the call instead of dragging the button.

On the Apps screen, tap **Settings** → **Accessibility**, and then tap the **Single tap mode** switch to activate it.

Managing accessibility settings

Saving accessibility settings in a file

Export the current accessibility settings in a file.

On the Apps screen, tap **Settings** → **Accessibility** → **Manage accessibility** → **Import/Export** → **Export to My Files**.

DRAFT, Not FINAL

Importing an accessibility settings file

Import an accessibility settings file and update the current settings.

On the Apps screen, tap **Settings** → **Accessibility** → **Manage accessibility** → **Import/Export** → **Import from My Files**. Select a file to import and tap **DONE**. The accessibility settings will be updated according to the imported file.

Sharing accessibility settings files

Share accessibility settings files with others via email, Wi-Fi Direct, Bluetooth, and more.

On the Apps screen, tap **Settings** → **Accessibility** → **Manage accessibility** → **Share via**. Then, select the accessibility files and tap **DONE**. Select a sharing method and follow the on-screen instructions to share the files.

DRAFT, Not FINAL

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 protective cover 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.

DRAFT, Not FINAL

Your device freezes or has fatal errors

If your device freezes or hangs, you may need to close apps or reinsert the battery and turn on the device to regain functionality. If your device is frozen and unresponsive, press and hold the Power key and the Volume key down simultaneously for more than 7 seconds to restart it.

If this does not solve the problem, perform a factory data reset. On the Apps screen, tap **Settings** → **Backup and reset** → **Factory data reset** → **RESET DEVICE** → **ERASE EVERYTHING**. Before performing the factory data reset, remember to make backup copies of all important data stored in the device.

If the problem is still not resolved, contact a Samsung Service Centre.

Calls are not connected

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

Others cannot hear you speaking on a call

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

Sound echoes during a call

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

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

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

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The battery icon is empty

Your battery is low. Charge the battery.

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

- Ensure that the charger is connected properly.
- Visit a Samsung Service Centre and have the battery replaced.

The battery depletes faster than when first purchased

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

Your device is hot to the touch

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

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.

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Error messages appear when opening multimedia files

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

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

Another Bluetooth device is not located

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

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

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

- Ensure that the USB cable you are using is compatible with your device.
- Ensure that you have the proper driver installed and updated on your computer.
- If you are a Windows XP user, ensure that you have Windows XP Service Pack 3 or higher installed on your computer.

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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.

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Removing the battery (non-removable type)

- These instructions are only for your service provider or an authorised repair agent.
- Damage or faults caused by the unauthorised removal of the battery are not covered by the warranty.
- To remove or replace the battery, contact your service provider or an authorised repair agent

1 Remove the SIM card tray from the device before starting battery removal.

2 Apply heat, higher than 80°C, to the edges of the device's screen for approximately 20 minutes.

3 Lift the screen using a suction cup, and then remove the connector using an opening tool to separate the screen from the device's body.

Do not forcefully lift the screen. This may result in damage to the connector or device.

4 Remove the Home key, and then loosen and remove the screws.

5 Remove the circuit board by lifting it out of the back cover using an opening tool, then put the back cover aside and place the circuit board face down on a flat work surface.

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6 Disconnect the battery connector as shown in the image below.

7 Push the back of the battery with your fingers and remove the battery.

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Make sure not to press or puncture the battery with your fingernails or other objects when removing it. This may cause explosion or fire.

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 http://www.fcc.gov/oet/ea/fccid/. Please use the phone FCC ID number for search, A3LSMG920T. 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**

Consumer Information on Wireless Phones

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The U.S. Food and Drug Administration (FDA) has published a series of Questions and Answers for consumers relating to radio frequency (RF) exposure from wireless phones. The FDA publication includes the following information:

What kinds of phones are the subject of this update?

The term wireless phone refers here to hand-held wireless phones with built-in antennas, often called “cell,” “mobile,” or “PCS” phones. These types of wireless phones can expose the user to measurable radio frequency energy (RF) because of the short distance between the phone and the user's head. These RF exposures are limited by Federal Communications Commission safety guidelines that were developed with the advice of FDA and other federal health and safety agencies. When the phone is located at greater distances from the user, the exposure to RF is drastically lower because a person's RF exposure decreases rapidly with increasing distance from the source. The so-called “cordless phones,” which have a base unit connected to the telephone wiring in a house, typically operate at far lower power levels, and thus produce RF exposures well within the FCC's compliance limits.

Do wireless phones pose a health hazard?

The available scientific evidence does not show that any health problems are associated with using wireless phones. There is no proof, however, that wireless phones are absolutely safe. Wireless phones emit low levels of radio frequency energy (RF) in the microwave range while being used. They also emit very low levels of RF when in the stand-by mode. Whereas high levels of RF can produce health effects (by heating tissue), exposure to low level RF that does not produce heating effects causes no known adverse health effects. Many studies of low level RF exposures have not found any biological effects. Some studies have suggested that some biological effects may occur, but such findings have not been confirmed by additional research. In some cases, other researchers have had difficulty in reproducing those studies, or in determining the reasons for inconsistent results.

What is FDA's role concerning the safety of wireless phones?

Under the law, FDA does not review the safety of radiation-emitting consumer products such as wireless phones before they can be sold, as it does with new drugs or medical devices. However, the agency has authority to take action if wireless phones are shown to emit radio frequency energy (RF) at a level that is hazardous to the user. In such a case, FDA could require the manufacturers of wireless phones to notify users of the health hazard and to repair, replace or recall the phones so that the hazard no longer exists.

Although the existing scientific data do not justify FDA regulatory actions, FDA has urged the wireless phone industry to take a number of steps, including the following:

- “Support needed research into possible biological effects of RF of the type emitted by wireless phones;
- “Design wireless phones in a way that minimizes any RF exposure to the user that is not necessary for device function; and
- “Cooperate in providing users of wireless phones with the best possible information on possible effects of wireless phone use on human health.

FDA belongs to an interagency working group of the federal agencies that have responsibility for different aspects of RF safety to ensure coordinated efforts at the federal level. The following agencies belong to this working group:

- “National Institute for Occupational Safety and Health

DRAFT - NOT FINAL

- “Environmental Protection Agency
- “Federal Communications Commission
- “Occupational Safety and Health Administration
- “National Telecommunications and Information Administration

The National Institutes of Health participates in some interagency working group activities, as well.

FDA shares regulatory responsibilities for wireless phones with the Federal Communications Commission (FCC). All phones that are sold in the United States must comply with FCC safety guidelines that limit RF exposure. FCC relies on FDA and other health agencies for safety questions about wireless phones.

FCC also regulates the base stations that the wireless phone networks rely upon. While these base stations operate at higher power than do the wireless phones themselves, the RF exposures that people get from these base stations are typically thousands of times lower than those they can get from wireless phones. Base stations are thus not the primary subject of the safety questions discussed in this document.

What are the results of the research done already?

The research done thus far has produced conflicting results, and many studies have suffered from flaws in their research methods. Animal experiments investigating the effects of radio frequency energy (RF) exposures characteristic of wireless phones have yielded conflicting results that often cannot be repeated in other laboratories. A few animal studies, however, have suggested that low levels of RF could accelerate the development of cancer in laboratory animals. However, many of the studies that showed increased tumor development used animals that had been genetically engineered or treated with cancer-causing chemicals so as to be pre-disposed to develop cancer in absence of RF exposure. Other studies exposed the animals to RF for up to 22 hours per day. These conditions are not similar to the conditions under which people use wireless phones, so we don't know with certainty what the results of such studies mean for human health.

Three large epidemiology studies have been published since December 2000. Between them, the studies investigated any possible association between the use of wireless phones and primary brain cancer, glioma, meningioma, or acoustic neuroma, tumors of the brain or salivary gland, leukemia, or other cancers. None of the studies demonstrated the existence of any harmful health effects from wireless phones RF exposures. However, none of the studies can answer questions about long-term exposures, since the average period of phone use in these studies was around three years.

What research is needed to decide whether RF exposure from wireless phones poses a health risk?

A combination of laboratory studies and epidemiological studies of people actually using wireless phones would provide some of the data that are needed. Lifetime animal exposure studies could be completed in a few years. However, very large numbers of animals would be needed to provide reliable proof of a cancer promoting effect if one exists. Epidemiological studies can provide data that is directly applicable to human populations, but ten or more years' follow-up may be needed to provide answers about some health effects, such as cancer. This is because the interval between the time of exposure to a cancer-causing agent and the time tumors develop - if they do - may be many, many years. The interpretation of

DRAFT, Not FINAL

epidemiological studies is hampered by difficulties in measuring actual RF exposure during day-to-day use of wireless phones. Many factors affect this measurement, such as the angle at which the phone is held, or which model of phone is used.

What is FDA doing to find out more about the possible health effects of wireless phone RF?

FDA is working with the U.S. National Toxicology Program and with groups of investigators around the world to ensure that high priority animal studies are conducted to address important questions about the effects of exposure to radio frequency energy (RF).

FDA has been a leading participant in the World Health Organization international Electromagnetic Fields (EMF) Project since its inception in 1996. An influential result of this work has been the development of a detailed agenda of research needs that has driven the establishment of new research programs around the world. The Project has also helped develop a series of public information documents on EMF issues.

FDA and Cellular Telecommunications & Internet Association (CTIA) have a formal Cooperative Research and Development Agreement (CRADA) to do research on wireless phone safety. FDA provides the scientific oversight, obtaining input from experts in government, industry, and academic organizations. CTIA-funded research is conducted through contracts to independent investigators. The initial research will include both laboratory studies and studies of wireless phone users. The CRADA will also include a broad assessment of additional research needs in the context of the latest research developments around the world.

What steps can I take to reduce my exposure to radio frequency energy from my wireless phone?

If there is a risk from these products - and at this point we do not know that there is - it is probably very small. But if you are concerned about avoiding even potential risks, you can take a few simple steps to minimize your exposure to radio frequency energy (RF). Since time is a key factor in how much exposure a person receives, reducing the amount of time spent using a wireless phone will reduce RF exposure.

- “If you must conduct extended conversations by wireless phone every day, you could place more distance between your body and the source of the RF, since the exposure level drops off dramatically with distance. For example, you could use a headset and carry the wireless phone away from your body.

Again, the scientific data do not demonstrate that wireless phones are harmful. But if you are concerned about the RF exposure from these products, you can use measures like those described above to reduce your RF exposure from wireless phone use.

What about children using wireless phones?

The scientific evidence does not show a danger to users of wireless phones, including children and teenagers. If you want to take steps to lower exposure to radio frequency energy (RF), the measures described above would apply to children and teenagers using wireless phones. Reducing the time of wireless phone use and increasing the distance between the user and the RF source will reduce RF exposure.

Some groups sponsored by other national governments have advised that children be discouraged from using wireless phones at all. For example, the government in

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the United Kingdom distributed leaflets containing such a recommendation in December 2000. They noted that no evidence exists that using a wireless phone causes brain tumors or other ill effects. Their recommendation to limit wireless phone use by children was strictly precautionary; it was not based on scientific evidence that any health hazard exists.

Do hands-free kits for wireless phones reduce risks from exposure to RF emissions?

Since there are no known risks from exposure to RF emissions from wireless phones, there is no reason to believe that hands-free kits reduce risks. Hands-free kits can be used with wireless phones for convenience and comfort. These systems reduce the absorption of RF energy in the head because the phone, which is the source of the RF emissions, will not be placed against the head. On the other hand, if the phone is mounted against the waist or other part of the body during use, then that part of the body will absorb more RF energy. Wireless phones marketed in the U.S. are required to meet safety requirements regardless of whether they are used against the head or against the body. Either configuration should result in compliance with the safety limit.

Do wireless phone accessories that claim to shield the head from RF radiation work?

Since there are no known risks from exposure to RF emissions from wireless phones, there is no reason to believe that accessories that claim to shield the head from those emissions reduce risks. Some products that claim to shield the user from RF absorption use special phone cases, while others involve nothing more than a metallic accessory attached to the phone. Studies have shown that these products generally do not work as advertised. Unlike “hand-free” kits, these so-called “shields” may interfere with proper operation of the phone. The phone may be forced to boost its power to compensate, leading to an increase in RF absorption. In February 2002, the Federal trade Commission (FTC) charged two companies that sold devices that claimed to protect wireless phone users from radiation with making false and unsubstantiated claims. According to FTC, these defendants lacked a reasonable basis to substantiate their claim.

What about wireless phone interference with medical equipment?

Radio frequency energy (RF) from wireless phones can interact with some electronic devices. For this reason, FDA helped develop a detailed test method to measure electromagnetic interference (EMI) of implanted cardiac pacemakers and defibrillators from wireless telephones. This test method is now part of a standard sponsored by the Association for the Advancement of Medical instrumentation (AAMI). The final draft, a joint effort by FDA, medical device manufacturers, and many other groups, was completed in late 2000. This standard will allow manufacturers to ensure that cardiac pacemakers and defibrillators are safe from wireless phone EMI. FDA has tested wireless phones and helped develop a voluntary standard sponsored by the Institute of Electrical and Electronic Engineers (IEEE). This standard specifies test methods and performance requirements for hearing aids and wireless phones so that no interference occurs when a person uses a compatible phone and a compatible hearing aid at the same time. This standard was approved by the IEEE in 2000.

FDA continues to monitor the use of wireless phones for possible interactions with other medical devices. Should harmful interference be found to occur, FDA will

DRAFT, NOT FINAL

conduct testing to assess the interference and work to resolve the problem.
Additional information on the safety of RF exposures from various sources can be obtained from the following organizations:

- FCC RF Safety Program: http://www.fcc.gov/oet/rfsafety/
- Environmental Protection Agency (EPA): http://www.epa.gov/radiation/
- Occupational Safety and Health Administration's (OSHA): http://www.osha.gov/SLTC/radiofrequencyradiation/index.html
- National institute for Occupational Safety and Health (NIOSH): http://www.cdc.gov/niosh/
- World health Organization (WHO): http://www.who.int/peh-emf/
- International Commission on Non-Ionizing Radiation Protection: http://www.icnirp.de
- National Radiation Protection Board (UK): http://www.hpa-radiationservices.org.uk/rpa
- Updated 4/3/2002: US food and Drug Administration http://www.fda.gov/Radiation-EmittingProducts/RadiationEmittingProductsandProcedures/HomeBusinessandEntertainment/CellPhones/default.htm

DRAFT, Not FINAL

Road Safety

Your wireless phone gives you the powerful ability to communicate by voice, almost anywhere, anytime. But an important responsibility accompanies the benefits of wireless phones, one that every user must uphold.
When driving a car, driving is your first responsibility. When using your wireless phone behind the wheel of a car, practice good common sense and remember the following tips:

1. Get to know your wireless phone and its features, such as speed dial and redial. If available, these features help you to place your call without taking your attention off the road.
2. When available, use a hands-free device. If possible, add an additional layer of convenience and safety to your wireless phone with one of the many hands free accessories available today.
3. Position your wireless phone within easy reach. Be able to access your wireless phone without removing your eyes from the road. If you get an incoming call at an inconvenient time, let your voice mail answer it for you.
4. Let the person you are speaking with know you are driving; if necessary, suspend the call in heavy traffic or hazardous weather conditions. Rain, sleet, snow, ice and even heavy traffic can be hazardous.
5. Do not take notes or look up phone numbers while driving. Jotting down a “to do” list or flipping through your address book takes attention away from your primary responsibility, driving safely.
6. Dial sensibly and assess the traffic; if possible, place calls when you are not moving or before pulling into traffic. Try to plan calls when your car will be stationary. If you need to make a call while moving, dial only a few numbers, check the road and your mirrors, then continue.

7. Do not engage in stressful or emotional conversations that may be distracting. Make people you are talking with aware you are driving and suspend conversations that have the potential to divert your attention from the road.
8. Use your wireless phone to call for help. Dial 9-1-1 or other local emergency number in the case of fire, traffic accident or medical emergencies. Remember, it is a free call on your wireless phone!
9. Use your wireless phone to help others in emergencies. If you see an auto accident, crime in progress or other serious emergency where lives are in danger, call 9-1-1 or other local emergency number, as you would want others to do for you.
10. Call roadside assistance or a special non-emergency wireless assistance number when necessary. If you see a broken-down vehicle posing no serious hazard, a broken traffic signal, a minor traffic accident where no one appears injured, or a vehicle you know to be stolen, call roadside assistance or other special non-emergency number.

"The wireless industry reminds you to use your phone safely when driving."
For more information, please call 1-888-901-SAFE, or visit our web-site www.wow-com.com
Provided by the Cellular Telecommunications & Internet Association

DRAFT - Not FINAL

Operating Environment

Remember to follow any special regulations in force in any area and always switch your phone off whenever it is forbidden to use it, or when it may cause interference or danger. When connecting the phone or any accessory to another device, read its user's guide for detailed safety instructions. Do not connect incompatible products.

As with other mobile radio transmitting equipment, users are advised that for the satisfactory operation of the equipment and for the safety of personnel, it is recommended that the equipment should only be used in the normal operating position.

Using Your Phone Near Other Electronic Devices

Most modern electronic equipment is shielded from radio frequency (RF) signals. However, certain electronic equipment may not be shielded against the RF signals from your wireless phone. Consult the manufacturer to discuss alternatives.

Pacemakers

Pacemaker manufacturers recommend that a minimum distance of 15 cm (6 inches) be maintained between a wireless phone and a pacemaker to avoid potential interference with the pacemaker.

These recommendations are consistent with the independent research and recommendations of Wireless Technology Research.

Persons with pacemakers:

- should always keep the phone more than 15 cm (6 inches) from their pacemaker when the phone is switched on.
- should not carry the phone in a breast pocket.
- should use the ear opposite the pacemaker to minimize potential interference.

If you have any reason to suspect that interference is taking place, switch your phone off immediately.

Hearing Aids

Some digital wireless phones may interfere with some hearing aids. In the event of such interference, you may wish to consult your hearing aid manufacturer to discuss alternatives.

Other Medical Devices

If you use any other personal medical devices, consult the manufacturer of your device to determine if it is adequately shielded from external RF energy. Your physician may be able to assist you in obtaining this information. Switch your phone off in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.

Vehicles

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles. Check with the manufacturer or its representative regarding your vehicle. You should also consult the manufacturer of any equipment that has been added to your vehicle.

Posted Facilities

Switch your phone off in any facility where posted notices require you to do so.

Potentially Explosive Environments

Switch your phone off when in any area with a potentially explosive atmosphere and obey all signs and instructions. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death.

Users are advised to switch the phone off while at a refueling point (service station).

Users are reminded of the need to observe restrictions on the use of radio equipment in fuel depots (fuel storage and distribution areas), chemical plants or where blasting operations are in progress.

Areas with a potentially explosive atmosphere are often but not always clearly marked. They include below deck on boats, chemical transfer or storage facilities, vehicles using liquefied petroleum gas (such as propane or butane), areas where the air contains chemicals or particles, such as grain, dust or metal powders, and any other area where you would normally be advised to turn off your vehicle engine.

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Emergency Calls

This phone, like any wireless phone, operates using radio signals, wireless and landline networks as well as user programmed functions, which cannot guarantee connection in all conditions. Therefore, you should never rely solely on any wireless phone for essential communications (medical emergencies, for example).

Remember, to make or receive any calls the phone must be switched on and in a service area with adequate signal strength. Emergency calls may not be possible on all wireless phone networks or when certain network services and/ or phone features are in use. Check with local service providers.

To make an emergency call:

1. If the phone is not on, switch it on.
2. Key in the emergency number for your present location (for example, 911 or other official emergency number). Emergency numbers vary by location.
3. Press .

If certain features are in use (call barring, for example), you may first need to deactivate those features before you can make an emergency call. Consult this

document and your local cellular service provider.
When making an emergency call, remember to give all the necessary information as accurately as possible. Remember that your phone may be the only means of communication at the scene of an accident; do not cut off the call until given permission to do so.

Restricting Children's access to your Phone

Your phone is not a toy. Children should not be allowed to play with it because they could hurt themselves and others, damage the phone or make calls that increase your phone bill.

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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.

DRAFT - Not FINAL

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.

Other Important Safety Information

- Only qualified personnel should service the phone or install the phone in a vehicle. Faulty installation or service may be dangerous and may invalidate any warranty applicable to the device.
- Check regularly that all wireless phone equipment in your vehicle is mounted and operating properly.
- Do not store or carry flammable liquids, gases or explosive materials in the same compartment as the phone, its parts or accessories.
- For vehicles equipped with an air bag, remember that an air bag inflates with great force. Do not place objects, including both installed or portable wireless equipment in the area over the air bag or in the air bag deployment area. If wireless equipment is improperly installed and the air bag inflates, serious injury could result.
- Switch your phone off before boarding an aircraft. The use of wireless phone in aircraft is illegal and may be dangerous to the aircraft's operation.
- Failure to observe these instructions may lead to the suspension or denial of telephone services to the offender, or legal action, or both.

Product Performance

Getting the Most Out of Your Signal Reception

The quality of each call you make or receive depends on the signal strength in your area. Your phone informs you of the current signal strength by displaying a number of bars next to the signal strength icon. The more bars displayed, the stronger the signal.

If you're inside a building, being near a window may give you better reception.

Understanding the Power Save Feature

If your phone is unable to find a signal after 15 minutes of searching, a Power Save feature is automatically activated. If your phone is active, it periodically rechecks service availability or you can check it yourself by pressing any key.

Anytime the Power Save feature is activated, a message displays on the screen. When a signal is found, your phone returns to standby mode.

Maintaining Your Phone's Peak Performance

For the best care of your phone, only authorized personnel should service your phone and accessories. Faulty service may void the warranty.

There are several simple guidelines to operating your phone properly and maintaining safe, satisfactory service.

- Place the mobile phone's acoustic output next to your ear for proper orientation.
- Do not tamper or alter the phone's antenna.
- Don't use the phone if the antenna is damaged.
- Speak directly into the phone's receiver.
- Avoid exposing your phone and accessories to rain or liquid spills. If your phone does get wet, immediately turn the power off and remove the battery. If it is inoperable, call Customer Care for service.

Availability of Various Features/Ring Tones

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Many services and features are network dependent and may require additional subscription and/or usage charges. Not all features are available for purchase or use in all areas. Downloadable Ring Tones may be available at an additional cost. Other conditions and restrictions may apply. See your service provider for additional information.

Battery Standby and Talk Time

Standby and talk times will vary depending on phone usage patterns and conditions. Battery power consumption depends on factors such as network configuration, signal strength, operating temperature, features selected, frequency of calls, and voice, data, and other application usage patterns.

Battery Precautions

- Never use any charger or battery that is damaged in any way.
- Use the battery only for its intended purpose.
- If you use the phone near the network's base station, it uses less power; talk and standby time are greatly affected by the signal strength on the cellular network and the parameters set by the network operator.
- Battery charging time depends on the remaining battery charge and the type of battery and charger used. The battery can be charged and discharged hundreds of times, but it will gradually wear out. When the operation time (talk time and standby time) is noticeably shorter than normal, it is time to buy a new battery.
- If left unused, a fully charged battery will discharge itself over time.
- Use only Samsung-approved batteries and recharge your battery only with Samsung-approved chargers. When a charger is not in use, disconnect it from the power source. Do not leave the battery connected to a charger for more than a week, since overcharging may shorten its life.
- Extreme temperatures will affect the charging capacity of your battery: it may require cooling or warming first.
- Do not leave the battery in hot or cold places, such as in a car in summer or winter conditions, as you will reduce the capacity and lifetime of the battery. Always try to keep the battery at room temperature. A phone with a hot or cold battery may temporarily not work, even when the battery is fully charged. Li-ion batteries are particularly affected by temperatures below 0 °C (32 °F).
- Do not short-circuit the battery. Accidental short- circuiting can occur when a metallic object (coin, clip or pen) causes a direct connection between the + and - terminals of the battery (metal strips on the battery), for example when you carry a spare battery in a pocket or bag. Short-circuiting the terminals may damage the battery or the object causing the short-circuiting.
- Dispose of used batteries in accordance with local regulations. In some areas, the disposal of batteries in household or business trash may be prohibited. For safe disposal options for Li-Ion batteries, contact your nearest Samsung authorized service center. Always recycle. Do not dispose of batteries in a fire.

Care and Maintenance

Your phone is a product of superior design and craftsmanship and should be treated with care. The suggestions below will help you fulfill any warranty obligations and

DRAFT, Not FINAL

allow you to enjoy this product for many years.

- Keep the phone and all its parts and accessories out of the reach of small children.
- Keep the phone dry. Precipitation, humidity and liquids contain minerals that will corrode electronic circuits.
- Do not use the phone with a wet hand. Doing so may cause an electric shock to you or damage to the phone.
- Do not use or store the phone in dusty, dirty areas, as its moving parts may be damaged.
- Do not store the phone in hot areas. High temperatures can shorten the life of electronic devices, damage batteries, and warp or melt certain plastics.
- Do not store the phone in cold areas. When the phone warms up to its normal operating temperature, moisture can form inside the phone, which may damage the phone's electronic circuit boards.
- Do not drop, knock or shake the phone. Rough handling can break internal circuit boards.
- Do not use harsh chemicals, cleaning solvents or strong detergents to clean the phone. Wipe it with a soft cloth slightly dampened in a mild soap-and-water solution.
- Do not paint the phone. Paint can clog the device's moving parts and prevent proper operation.
- Do not put the phone in or on heating devices, such as a microwave oven, a stove or a radiator. The phone may explode when overheated.
- When the phone or battery gets wet, the label indicating water damage inside the phone changes color. In this case, phone repairs are no longer guaranteed by the manufacturer's warranty, even if the warranty for your phone has not expired.
- If your phone has a flash or light, do not use it too close to the eyes of people or animals. This may cause damage to their eyes.
- Use only the supplied or an approved replacement antenna. Unauthorized antennas or modified accessories may damage the phone and violate regulations governing radio devices.
- If the phone, battery, charger or any accessory is not working properly, take it to your nearest qualified service facility. The personnel there will assist you, and if necessary, arrange for service.

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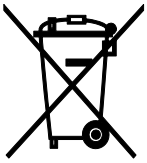


Correct disposal of this product

(Waste Electrical & Electronic Equipment)

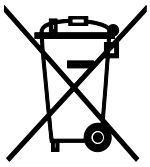
(Applicable in the European Union and other European countries with separate collection systems)

This marking shown on the product or its literature, indicates that it should not be

disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

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

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



Correct disposal of batteries in this product

(Applicable in the European Union and other European countries with separate battery return systems)

This marking on the battery, manual or packaging indicates that the batteries in this product should not be disposed of with other household waste at the end of their working life. Where marked, the chemical symbols Hg, Cd or Pb indicate that the battery contains mercury, cadmium or lead above the reference levels in EC Directive 2006/66. If batteries are not properly disposed of, these substances can cause harm to human health or the environment.

To protect natural resources and to promote material reuse, please separate batteries from other types of waste and recycle them through your local, free battery return system.

DRAFT, Not FINAL

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.

DRAFT, Not FINAL

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.

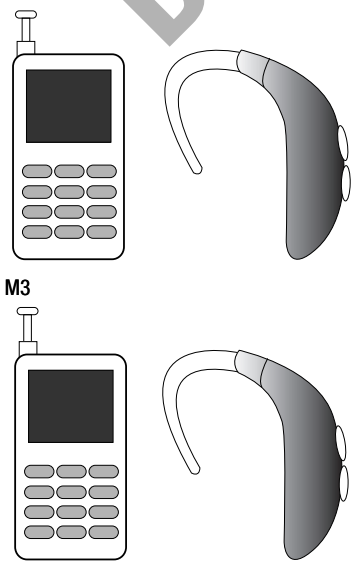
Hearing devices may also be rated. Your hearing aid manufacturer or hearing health professional may help you find this rating. Higher ratings mean that the hearing device is relatively immune to interference noise.

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.

DRAFT - Not FINAL



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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