

User Manual

About this manual

This device provides high quality mobile communication and entertainment using Samsung's high standards and technological expertise. This user manual is specially designed to detail the device's functions and features.

- Please read this manual before using the device to ensure safe and proper use.
- Descriptions are based on the device's default settings.
- Images and screenshots may differ in appearance from the actual product.
- Content may differ from the final product, or from software provided by service providers or carriers, and is subject to change without prior notice. For the latest version of the manual, refer to the Samsung website, www.samsung.com.
- Content (high quality content) that requires high CPU and RAM usage will affect the overall performance of the device. Applications related to the content may not work properly depending on the device's specifications and the environment that it is used in.
- Available features and additional services may vary by device, software, or service provider.
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- You may incur additional charges for data services, such as messaging, uploading and downloading, auto-syncing, or using location services. To avoid additional charges, select an appropriate data tariff plan. For details, contact your service provider.

- Default applications that come with the device are subject to updates and may no longer be supported without prior notice. If you have questions about an application provided with the device, contact a Samsung Service Centre. For user-installed applications, contact service providers.
- Modifying the device's operating system or installing softwares from unofficial sources may result in device malfunctions and data corruption or loss. These actions are violations of your Samsung licence agreement and will void your warranty.

Instructional icons



Warning: situations that could cause injury to yourself or others



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



Note: notes, usage tips, or additional information

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ABOUT DIVX VIDEO-ON-DEMAND

This DivX Certified® device must be registered in order to play purchased DivX Video-on-Demand (VOD) movies. To obtain your registration code, locate the DivX VOD section in your device setup menu. Go to vod.divx.com for more information on how to complete your registration.

DivX Certified® to play DivX® video up to HD 720p, including premium content.

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Table of Contents

Getting started

- 7 Device layout
- 8 Buttons
- 9 Package contents
- 10 Installing the SIM or USIM card
- 11 Charging the battery
- 14 Inserting a memory card
- 16 Turning the device on and off
- 16 Holding the device
- 17 Locking and unlocking the device
- 17 Adjusting the volume
- 17 Switching to silent mode

Basics

- 18 Indicator icons
- 19 Using the touch screen
- 22 Rotating the screen
- 23 Notifications
- 24 Home screen
- 26 Using applications
- 27 Applications screen
- 28 Help
- 28 Entering text
- 30 Connecting to a Wi-Fi network
- 31 Setting up accounts
- 32 Transferring files

- 33 Securing the device
- 35 Upgrading the device

Communication

- 36 Phone
- 42 Contacts
- 45 Messaging
- 47 Email
- 49 Google Mail
- 50 Talk
- 51 Google+
- 51 Messenger
- 52 ChatON

Web & network

- 53 Internet
- 54 Chrome
- 55 Bluetooth
- 56 Samsung Link
- 58 Group Play

Media

- 59 Music Player
- 60 Camera
- 66 Gallery

69	Video Player
70	YouTube
71	Flipboard

Application & media stores

72	Play Store
73	Samsung Apps
73	Game Hub
74	Music Hub
74	Play Books
75	Play Movies
75	Play Music
75	Play Magazines
76	Video Hub
76	Learning Hub

Utilities

77	Memo
78	S Planner
80	Polaris Office
83	Dropbox
83	Alarm
84	World Clock
85	Calculator
85	S Voice
86	Google
87	Voice Search
87	My Files
88	Downloads

Travel & local

89	Maps
90	Local
91	Navigation

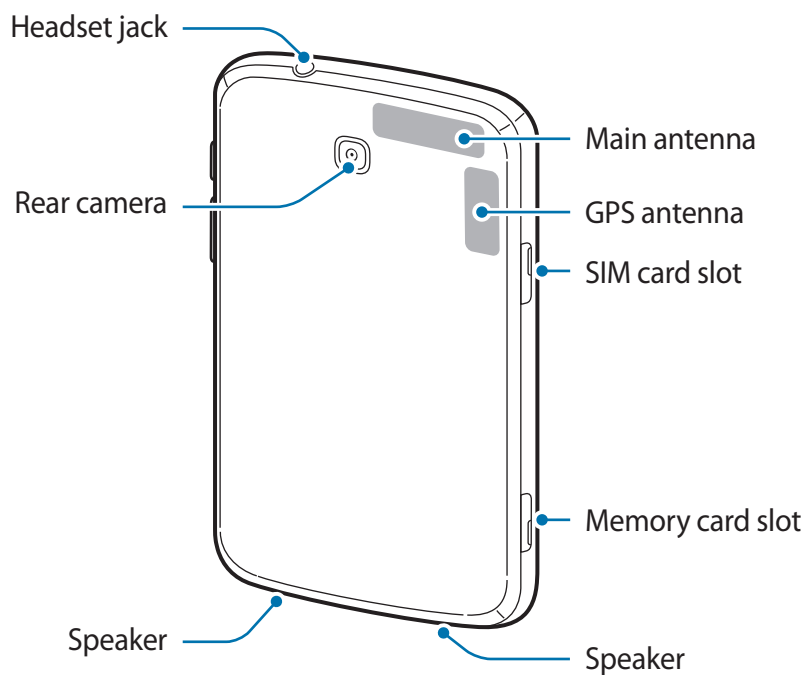
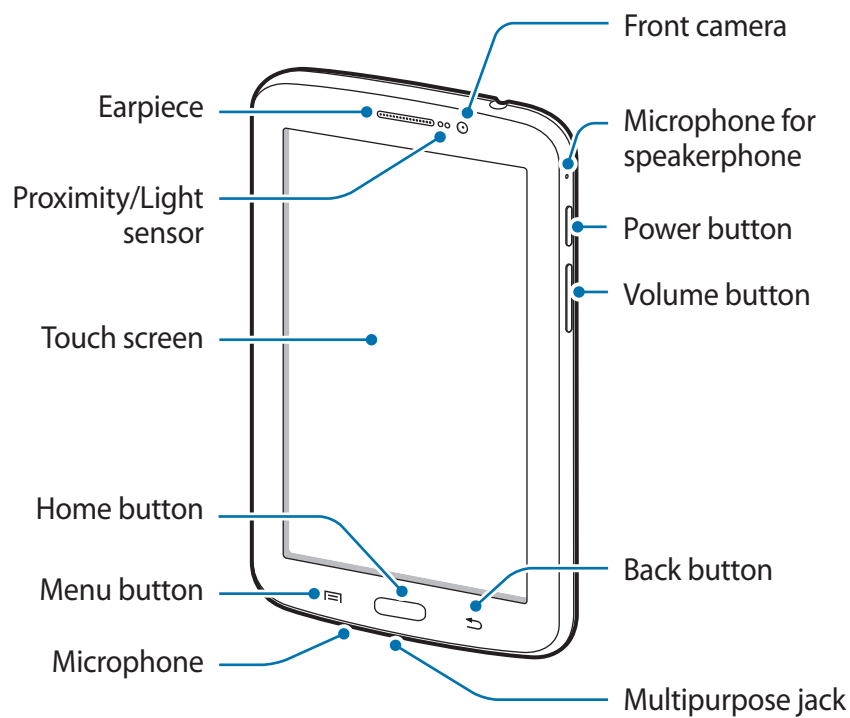
Settings

92	About Settings
92	Wi-Fi
93	Bluetooth
93	Data usage
94	More settings
95	Blocking mode
95	Sound
96	Display
96	Storage
97	Power saving mode
97	Battery
97	Application manager
97	Location services
98	Lock screen
99	Security
100	Language and input
103	Backup and reset
103	Add account
103	Accessory
103	Date and time
104	Accessibility
105	Developer options
106	About device

Troubleshooting

Getting started

Device layout



The microphone at the top of the device is active only when you use the speakerphone or take videos.



- Do not cover the antenna area with your hands or other objects. This may cause connectivity problems or drain the battery.
- Do not use a screen protector. This causes sensor malfunctions.
- Do not allow water to contact the touch screen. The touch screen may malfunction in humid conditions or when exposed to water.

Buttons

Button	Function
 Power	• Press and hold to turn the device on or off. • Press and hold for 8-10 seconds to reset the device if it has fatal errors or hang-ups, or freezes. • Press to lock or unlock the device. The device goes into lock mode when the touch screen turns off.
 Menu	• Tap to open a list of options available for the current screen. • Tap and hold on the Home screen to launch Google search.
 Home	• Press to return to the Home screen. • Press and hold to open the list of recent applications. • Press twice to launch S Voice.
 Back	• Tap to return to the previous screen.
 Volume	• Press to adjust the device volume.

Package contents

Check the product box for the following items:

- Device
- Quick start guide



Use only Samsung-approved software. Pirated or illegal software may cause damage or malfunctions, which are not covered by the warranty.



- The items supplied with the device and any available accessories may vary depending on the region or service provider.
- The supplied items are designed only for this device and may not be compatible with other devices.
- Appearances and specifications are subject to change without prior notice.
- You can purchase additional accessories from your local Samsung retailer. Make sure they are compatible with the device before purchase.
- Other accessories may not be compatible with your device.
- Use only Samsung-approved accessories. Malfunctions caused by using unapproved accessories are not covered by the warranty service.
- Availability of all accessories is subject to change depending entirely on manufacturing companies. For more information about available accessories, refer to the Samsung website.

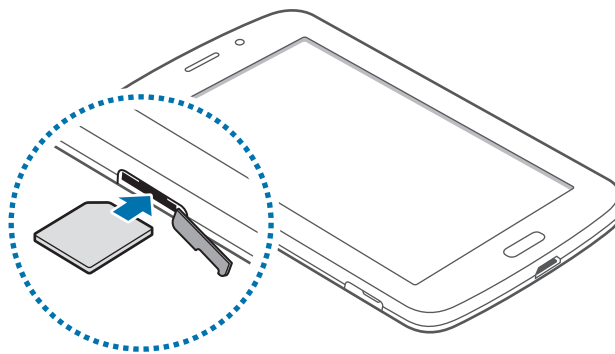
Installing the SIM or USIM card

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



Only microSIM cards work with the device.

- 1 Open the cover of the SIM card slot.
- 2 Insert the SIM or USIM card with the gold-coloured contacts facing downwards.

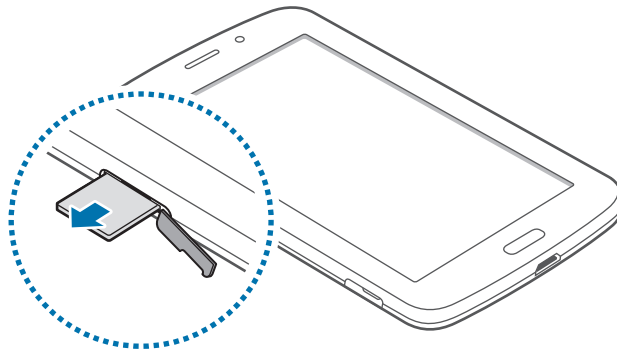


- Do not insert a memory card into the SIM card slot. If a memory card happens to be lodged in the SIM card slot, take the device to a Samsung Service Centre to remove the memory card.
- Use caution not to lose or let others use the SIM or USIM card. Samsung is not responsible for any damages or inconveniences caused by lost or stolen cards.

- 3 Push the SIM or USIM card into the slot until it locks in place.
- 4 Close the cover of the SIM card slot.

Removing the SIM or USIM card

- 1 Open the cover of the SIM card slot.
- 2 Push the SIM or USIM card until it disengages from the device, and then pull it out.



Charging the battery

Use the charger to charge the battery before using it for the first time.



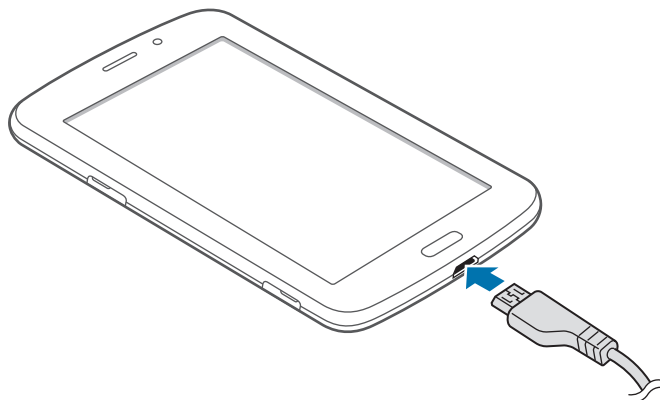
Use only Samsung-approved chargers, batteries, and cables. Unapproved chargers or cables can cause the battery to explode or damage the device.



- When the battery power is low, the device emits a warning tone and displays a low battery power message.
- If the battery is completely discharged, the device cannot be turned on immediately when the charger is connected. Allow a depleted battery to charge for a few minutes before turning on the device.

Charging with the charger

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



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



- The device can be used while it is charging, but it may take longer to fully charge the battery.
- If the device receives an unstable power supply while charging, the touch screen may not function. If this happens, unplug the charger from the device.
- While charging, the device may heat up. This is normal and should not affect the device's lifespan or performance. If the battery gets hotter than usual, the charger may stop charging.
- If the device is not charging properly, take the device and the charger to a Samsung Service Centre.

After fully charging, disconnect the device from the charger. First unplug the charger from the device, and then unplug it from the electric socket.



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

Checking the battery charge status

When you charge the battery while the device is off, the following icons will show the current battery charge status:



Reducing the battery consumption

Your device provides options that help you save battery power. By customising these options and deactivating features in the background, you can use the device longer between charges:

- When you are not using the device, switch to sleep mode by pressing the Power button.
- Close unnecessary applications with the task manager.
- Deactivate the Bluetooth feature.
- Deactivate the Wi-Fi feature.
- Deactivate auto-syncing of applications.
- Decrease the backlight time.
- Decrease the brightness of the display.

Inserting a memory card

Your device accepts memory cards with maximum capacities of 32 GB. Depending on the memory card manufacturer and type, some memory cards may not be compatible with your device.

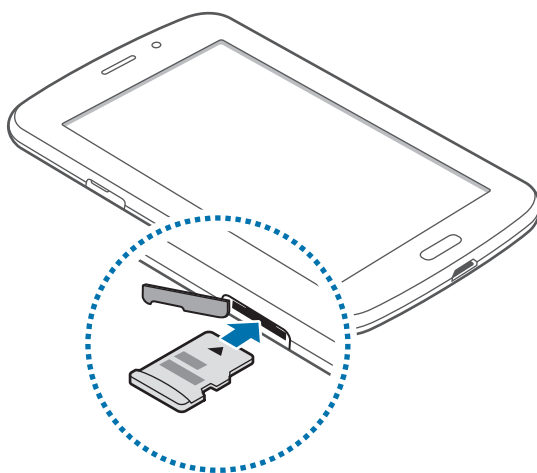


- Some memory cards may not be fully compatible with the device. Using an incompatible card may damage the device or the memory card, or corrupt the data stored in it.
- Use caution to insert the memory card right-side up.



- The device supports only the FAT file system for memory cards. When inserting a card formatted in a different file system, the device asks to reformat the memory card.
- Frequent writing and erasing of data shortens the lifespan of memory cards.
- When inserting a memory card into the device, the memory card's file directory appears in the **extSdCard** folder under the internal memory.

- 1 Open the cover of the memory card slot.
- 2 Insert a memory card with the gold-coloured contacts facing downwards.
- 3 Push the memory card into the slot until it locks in place.
- 4 Close the cover of the memory card slot.



Removing the memory card

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

Push the memory card until it disengages from the device, and then pull it out.



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

Formatting the memory card

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

On the Home screen, tap **Apps** → **Settings** → **Storage** → **Format SD card** → **Format SD card** → **Erase everything**.

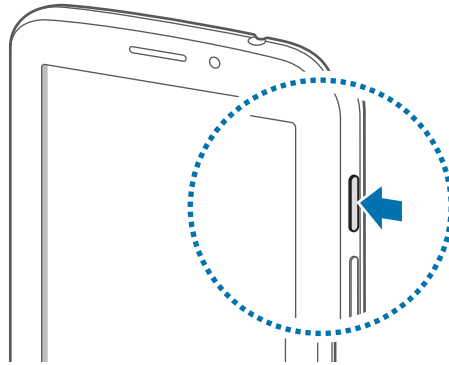


Before formatting the memory card, remember to make backup copies of all important data stored on the device. The manufacturer's warranty does not cover loss of data resulting from user actions.

Turning the device on and off

When turning on the device for the first time, follow the on-screen instructions to set up your device.

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



- Follow all posted warnings and directions from authorised personnel in areas where the use of wireless devices is restricted, such as aeroplanes and hospitals.
- Press and hold the Power button and tap **Flight mode** to disable the wireless features.

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

Holding the device

Do not cover the antenna area with your hands or other objects. This may cause connectivity problems or drain the battery.

Locking and unlocking the device

When not in use, lock the device to prevent unwanted operation. Pressing the Power button turns off the screen and puts the device into lock mode. The device automatically gets locked if it is not used for a specified period.

To unlock the device, press the Power button or the Home button when the touch screen is turned off, tap anywhere on the screen, and then flick your finger in any direction.

Adjusting the volume

Press the Volume button up or down to adjust the ringtone volume, or to adjust the sound volume when playing music or video.

Switching to silent mode

Use one of the following methods:

- Press and hold the Volume button down until it switches to silent mode.
- Press and hold the Power button, and then tap **Mute** or **Vibrate**.
- Open the notifications panel at the top of the screen, and then tap **Sound** or **Vibrate**.

Basics

Indicator icons

The icons displayed at the top of the screen provide information about the status of the device. The icons listed in the table below are most common.

Icon	Meaning
	No signal
	Signal strength
	Roaming (outside of normal service area)
	GPRS network connected
	EDGE network connected
	UMTS network connected
	HSDPA network connected
	Wi-Fi connected
	Bluetooth feature activated
	GPS activated
	Call in progress
	Missed call
	Synced with the web
	Connected to computer
	No SIM or USIM card
	New text or multimedia message
	Alarm activated
	Silent mode activated
	Vibration mode activated
	Flight mode activated

Icon	Meaning
	Error occurred or caution required
	Battery power level

Using the touch screen

Use only fingers to use the touch screen.

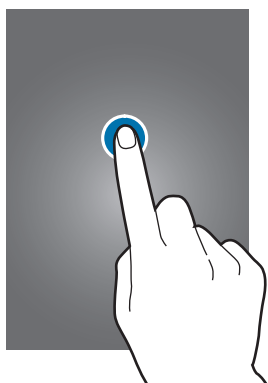


- Do not allow the touch screen to come into contact with other electrical devices. Electrostatic discharges can cause the touch screen to malfunction.
- Do not allow the touch screen to contact water. The touch screen may malfunction in humid conditions or when exposed to water.
- To avoid damaging the touch screen, do not tap it with anything sharp or apply excessive pressure to it with your fingertips.
- Leaving the touch screen idle for extended periods may result in afterimages (screen burn-in) or ghosting. Turn off the touch screen when you do not use the device.

Finger gestures

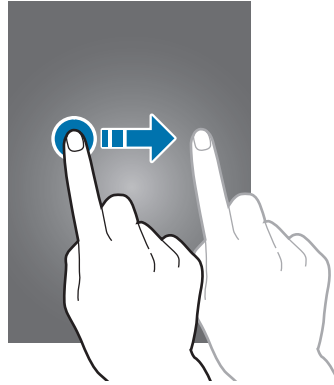
Tapping

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



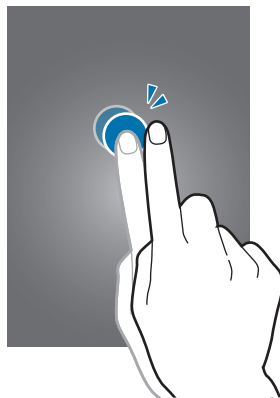
Dragging

To move an icon, thumbnail, or preview to a new location, tap and hold it and drag it to the target position.



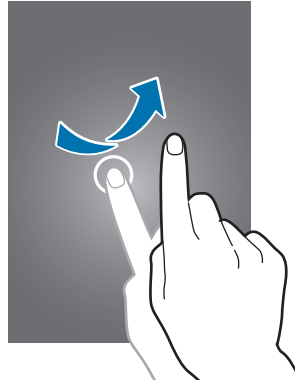
Double-tapping

Double-tap on a webpage, map, or image to zoom in a part. Double-tap again to return.



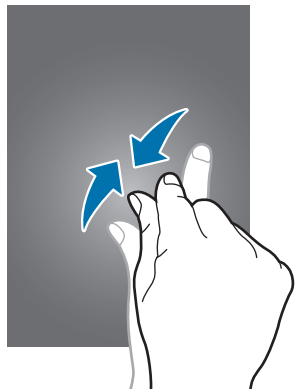
Flicking

Flick left or right on the Home screen or the Applications screen to see another panel. Flick up or down to scroll through a webpage or a list, such as contacts.



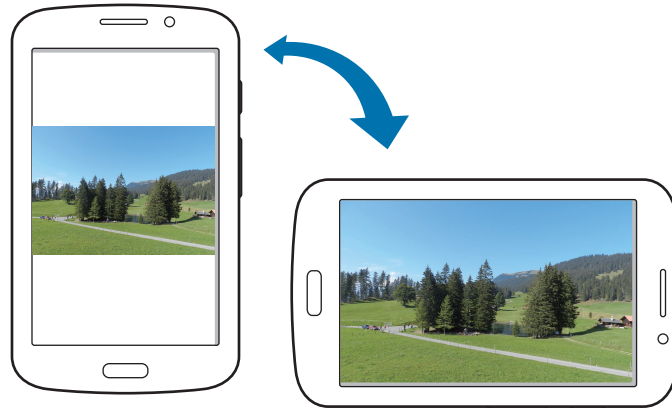
Pinching

Spread two fingers apart on a webpage, map, or image to zoom in a part. Pinch to zoom out.



Rotating the screen

Many applications allow display in either portrait or landscape orientation. Rotating the device causes the display to automatically adjust to fit the new screen orientation.



To prevent the display from rotating automatically, open the notifications panel and deselect **Screen rotation**.



- Some applications do not allow screen rotation.
- Some applications display a different screen depending on the orientation. The calculator turns into a scientific calculator when rotated to landscape.

Notifications

Notification icons appear on the status bar at the top of the screen to report missed calls, new messages, calendar events, device status, and more. Drag down from the status bar to open the notifications panel. Scroll the list to see additional alerts. To close the notifications panel, drag up the bar that is at the bottom of the screen.

From the notifications panel, you can view your device's current status and use the following options:

- **Wi-Fi:** Activate or deactivate the Wi-Fi feature.
- **GPS:** Activate or deactivate the GPS feature.
- **Sound:** Activate or deactivate silent mode. You can vibrate or mute your device in silent mode.
- **Screen rotation:** Allow or prevent the interface from rotating when you rotate the device.
- **Bluetooth:** Activate or deactivate the Bluetooth feature.
- **Mobile data:** Activate or deactivate the data connection.
- **Blocking mode:** Activate or deactivate blocking mode. In blocking mode, the device will block notifications. To select which notifications will be blocked, tap **Settings** → **Blocking mode**.
- **Sync:** Activate or deactivate auto-syncing of applications.
- **Power saving:** Activate or deactivate power-saving mode.



The available options may vary depending on the region or service provider.

Home screen

The Home screen is the starting point to access all of the device's features. It displays indicator icons, widgets, shortcuts to applications, and others.

The Home screen can have multiple panels. To view other panels, scroll left or right.

Rearranging items

Adding an application icon

On the Home screen, tap **Apps**, tap and hold an application icon, and then drag it into a panel preview.

Adding an item

Customise the Home screen by adding widgets, folders, or pages.

Tap and hold the empty area on the Home screen, and then select one of the following categories:

- **Apps and widgets:** Add widgets or applications to the Home screen.
- **Folder:** Create a new folder.
- **Page:** Create a new page.

Moving an item

Tap and hold an item and drag it to a new location. To move it to another panel, drag it to the side of the screen.

Removing an item

Tap and hold an item, and drag it to the rubbish bin that appears at the top of the Home screen. When the rubbish bin turns red, release the item.

Rearranging panels

Adding a new panel

Tap  → **Edit page** → .

Moving a panel

Tap  → **Edit page**, tap and hold a panel preview, and then drag it to a new location.

Removing a panel

Tap  → **Edit page**, tap and hold a panel preview, and then drag it to the rubbish bin at the bottom of the screen.

Setting wallpaper

Set an image or photo stored in the device as wallpaper for the Home screen.

On the Home screen, tap  → **Set wallpaper** → **Home screen**, and then select one of the following:

- **Gallery:** See photos taken by the device's camera or images downloaded from the Internet.
- **Live wallpapers:** See animated images.
- **Wallpapers:** See wallpaper images.

Then, select an image and tap **Set wallpaper**. Or, select an image, resize it by dragging the frame, and then tap **Done**.

Using widgets

Widgets are small applications that provide convenient functions and information on your Home screen. To use them, add widgets from the widgets panel to the Home screen.



- Some widgets connect to web services. Using a web-based widget may result in additional charges.
- The widgets available may vary depending on the region or service provider.

Adding widgets to the Home screen

On the Home screen, tap **Apps** → **Widgets**. Scroll left or right on the widgets panel, and then tap and hold a widget to add it to the Home screen.

Using the setting shortcut widget

On the Home screen, tap **Apps** → **Widgets**, and then tap and hold **Settings Shortcut** to open a list of setting options. Select a setting option to add it to the Home screen as a shortcut.

Using applications

This device can run many different types of applications, ranging from media to Internet applications.

Opening an application

On the Home screen or the Applications screen, select an application icon to open it.

Opening from recently-used applications

Press and hold the Home button to open the list of recently-used applications.

Select an application icon to open.

Closing an application

Close applications not in use to save battery power and maintain device performance.

Press and hold the Home button, tap , and then tap **End** next to an application to close it. To close all running applications, tap **End all**. Alternatively, press and hold the Home button, and then tap .

Applications screen

The Applications screen displays icons for all applications, including any new applications installed.

On the Home screen, tap **Apps** to open the Applications screen.

To view other panels, scroll left or right.

Rearranging applications

Tap  → **Edit**, tap and hold an application, and then drag it to a new location. To move it to another panel, drag it to the side of the screen.

Organising with folders

Put related applications together in a folder for convenience.

Tap  → **Edit**, tap and hold an application, and then drag it to **Create folder**. Enter a folder name and then tap **OK**. Put applications into the new folder by dragging, and then tap **Save** to save the arrangement.

Rearranging panels

Pinch on the screen, tap and hold a panel preview, and then drag it to a new location.

Installing applications

Use application stores, such as **Samsung Apps**, to download and install applications.

Uninstalling applications

Tap  → **Uninstall**, and then select an application to uninstall it.



Default applications that come with the device cannot be uninstalled.

Sharing applications

Share downloaded applications with other users via email, Bluetooth, or other methods.

Tap  → **Share apps**, select applications, tap **Done**, and then select a sharing method. The next steps vary depending on the method selected.

Help

Access help information to learn how to use the device and applications or configure important settings.

Tap **Help** on the Applications screen. Select an item to view tips.

Entering text

Use the Samsung keyboard or the voice input feature to enter text.

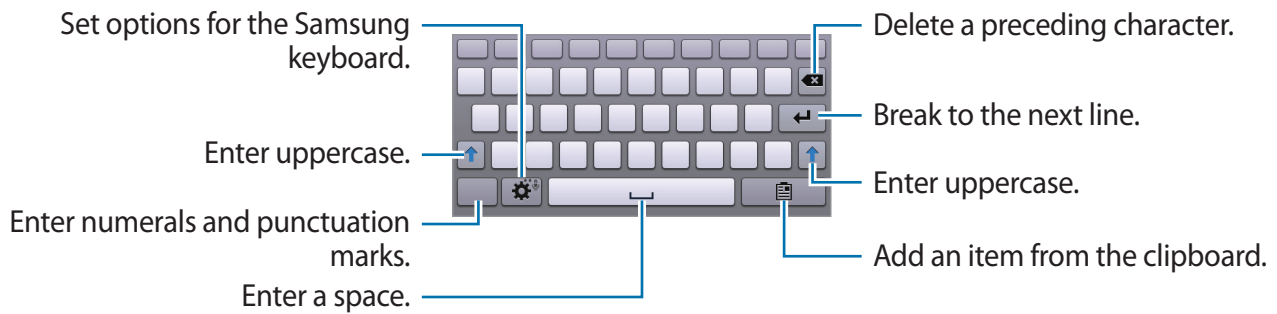


Text entry is not supported in some languages. To enter text, you must change the input language to one of the supported languages.

Changing the keyboard type

Tap any text field, open the notifications panel, tap **Choose input method**, and then select the type of keyboard to use.

Using the Samsung keyboard



Entering uppercase

Tap  before entering a character. For all caps, tap it twice.

Changing language keyboards

Add languages to the keyboard, and then slide the space key left or right to change language keyboards.

Entering text by voice

Activate the voice input feature and then speak into the microphone. The device displays what you speak.

If the device does not recognise your words correctly, tap the underlined text and select an alternative word or phrase from the dropdown list.

To change the language or add languages for the voice recognition, tap the current language.

Copying and pasting

Tap and hold over text, drag  or  to select more or less text, and then tap **Copy** to copy or **Cut** to cut. The selected text is copied to the clipboard.

To paste it into a text entry field, tap and hold at the point where it should be inserted, and then tap **Paste**.

Connecting to a Wi-Fi network

Connect the device to a Wi-Fi network to use the Internet or share media files with other devices. (p. 92)

Turning Wi-Fi on and off

Open the notifications panel, and then tap **Wi-Fi** to turn it on or off.



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

Joining Wi-Fi networks

On the Applications screen, tap **Settings** → **Wi-Fi**, and then drag the **Wi-Fi** switch to the right. Select a network from the list of detected Wi-Fi networks, enter a password if necessary, and then tap **Connect**. Networks that require a password appear with a lock icon. After the device connects to a Wi-Fi network, the device will automatically connect to it any time it is available.

Adding Wi-Fi networks

If the desired network does not appear in the networks list, tap **Add Wi-Fi network** at the bottom of the networks list. Enter the network name in **Network SSID**, select the security type and enter the password if it is not an open network, and then tap **Save**.

Forgetting Wi-Fi networks

Any network that has ever been used, including the current network, can be forgotten so the device will not automatically connect to it. Select the network in the networks list, and then tap **Forget**.

Setting up accounts

Google applications, such as **Play Store**, require a Google account, and **Samsung Apps** requires a Samsung account. Create Google and Samsung accounts to have the best experience with the device.

Adding accounts

Follow the instructions that appear when opening a Google application without signing in to set up a Google account.

To sign in with or sign up for a Google account, on the Applications screen, tap **Settings** → **Add account** → **Google**. After that, tap **New** to sign up, or tap **Existing**, and then follow on-screen instructions to complete the account setup. More than one Google account can be used on the device.

Set up a Samsung account as well.

Removing accounts

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

Transferring files

Move audio, video, image, or other types of files from the device to the computer, or vice versa.



The following file formats are supported by some applications. Some file formats are not supported depending on the version of the device's software or the computer operating system.

- Music: mp3, m4a, mp4, 3gp, 3ga, wma, ogg, oga, aac, and flac
- Image: bmp, gif, jpg, and png
- Video: 3gp, mp4, avi, wmv, flv, asf, and mkv
- Document: doc, docx, xls, xlsx, ppt, pptx, pdf, and txt

Connecting with Samsung Kies

Samsung Kies is a computer application that manages media libraries, contacts, and calendars, and syncs them with Samsung devices. Download the latest Samsung Kies from the Samsung website.

- 1 Connect the device to the computer using the USB cable.
Samsung Kies launches on the computer automatically. If Samsung Kies does not launch, double-click the Samsung Kies icon on the computer.
- 2 Transfer files between your device and the computer.
Refer to the Samsung Kies help for more information.

Connecting with Windows Media Player

Ensure that Windows Media Player is installed on the computer.

- 1 Connect the device to the computer using the USB cable.
- 2 Open Windows Media Player and sync music files.

Connecting as a media device

- 1 Connect the device to the computer using the USB cable.
- 2 Open the notifications panel, and then tap **Connected as a media device** → **Media device (MTP)**.
Tap **Camera (PTP)** if your computer does not support Media Transfer Protocol (MTP) or not have any appropriate driver installed.
- 3 Transfer files between your device and the computer.

Securing the device

Prevent others from using or accessing personal data and information stored in the device by using the security features. The device requires an unlock code whenever unlocking it.

Setting a face unlock

On the Applications screen, tap **Settings** → **Lock screen** → **Screen lock** → **Face unlock**.

Fit your face in the frame to be captured. Then, set a backup unlock PIN or pattern to unlock the screen in case the face unlock fails.

Setting a face and voice unlock

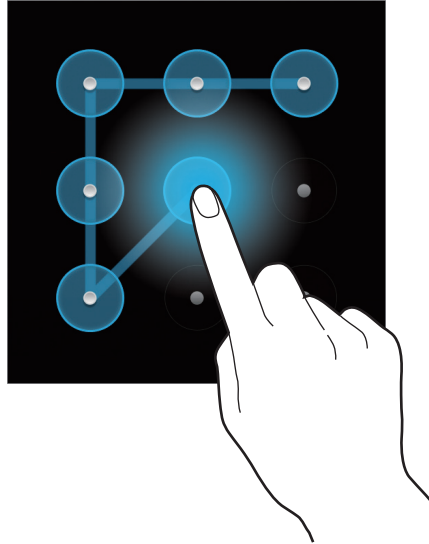
On the Applications screen, tap **Settings** → **Lock screen** → **Screen lock** → **Face and voice**.

Fit your face in the frame to be captured and then set a voice command. Then, set a backup unlock PIN or pattern to unlock the screen in case the face and voice unlock fails.

Setting a pattern

On the Applications screen, tap **Settings** → **Lock screen** → **Screen lock** → **Pattern**.

Draw a pattern by connecting four dots or more, and then draw the pattern again to verify it. Set a backup unlock PIN to unlock the screen when you forget the pattern.



Setting a PIN

On the Applications screen, tap **Settings** → **Lock screen** → **Screen lock** → **PIN**.

Enter at least four numbers, and then enter the password again to verify it.

Setting a password

On the Applications screen, tap **Settings** → **Lock screen** → **Screen lock** → **Password**.

Enter at least four characters including numbers and symbols, and then enter the password again to verify it.

Unlocking the device

Turn on the screen by pressing the Power button or the Home button, and enter the unlock code.



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

Upgrading the device

The device can be upgraded to the latest software.



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

Upgrading with Samsung Kies

Launch Samsung Kies and connect the device to the computer. Samsung Kies automatically recognises the device and shows available updates in a dialogue box, if any. Click the Update button in the dialogue box to start upgrading. Refer to the Samsung Kies help for details on how to upgrade.



- Do not turn off the computer or disconnect the USB cable while the device is upgrading.
- While upgrading the device, do not connect other media devices to the computer. Doing so may interfere with the update process.

Upgrading over the air

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

On the Applications screen, tap **Settings** → **About device** → **Software update** → **Update**.

Communication

Phone

Use this application to make or answer a call.

Tap **Phone** on the Applications screen.

Making calls

Making a call

Use one of the following methods:

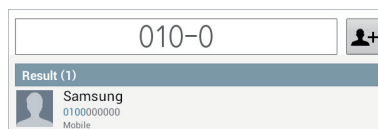
- **Keypad:** Enter the number using the keypad, and then tap .
- **Logs:** Make a call from the history of incoming and outgoing calls and messages.
- **Favourites:** Make a call from the list of favourite contacts.
- **Contacts:** Make a call from the contacts list.

Speed dial numbers

For speed dial numbers, tap and hold the corresponding digit.

Number prediction

When entering numbers on the keypad, automatic predictions appear. Select one of these to make a call.



Finding contacts

Enter a name, phone number, or email address to find a contact in the contacts list. As characters are entered, predicted contacts appear. Select one to place a call to it.

Making an international call

Tap and hold **0** until the + sign appears. Enter the country code, area code, and phone number, and then tap .

During a call

The following actions are available:

- **Hold:** Hold a call. Or press and hold the headset button. Tap **Unhold** to retrieve the held call, or press and hold the headset button.
- **Add call:** Dial a second call.
- **Keypad:** Open the keypad.
- **Speaker:** Activate the speakerphone. Keep the device away from your ears when using the speakerphone.
- **Extra vol.:** Increase the volume.
- **Mute:** Turn off the microphone so that the other party cannot hear you.
- **Headset:** Switch to a Bluetooth headset if it is connected to the device.
- **Swap:** Switch between two calls.
- **Merge:** Make a multiparty call when connected to two calls. Repeat this to add more parties. This feature is available only if the multiparty call service is active.
-  → **Contacts:** Open the contacts list.
-  → **Message:** Send a message.

-  → **Transfer**: Connect the first party to the second party. This disconnects you from the conversation.
-  → **Manage conference call**: Have a private conversation with one party during a multiparty call or disconnect one party from the multiparty call.

Adding contacts

To add a phone number to the contacts list from the keypad, enter the number and tap .

Viewing call logs

Tap **Logs** to view the history of incoming and outgoing calls.

To filter a call log, tap  → **View by**, and then select an option.

Fixed dialling number

The device can be set to restrict outgoing calls only to numbers with specified prefixes. Those prefixes are stored in the SIM or USIM card.

Tap  → **Call settings** → **Call settings** → **Additional settings** → **Fixed Dialling Numbers** → **Enable FDN**, and then enter the PIN2 supplied with the SIM or USIM card. Tap **FDN list** and add numbers.

Call barring

The device can be set to prevent certain calls from being made. For example, international calling can be disabled.

Tap  → **Call settings** → **Call settings** → **Additional settings** → **Call barring**, select a call type, select a call barring option, and then enter a password.

Receiving calls

Answering a call

When a call comes in, drag  outside the circle, or press the headset button.

If the call waiting service is active, another call can be made. When the second call is answered, the first call is put on hold.

Rejecting a call

When a call comes in, drag  outside the circle, or press and hold the headset button.

To send a message when rejecting an incoming call, tap **Reject call with message**. To create the rejection message, tap  → **Call settings** → **Call settings** → **Set reject messages**.

Automatically rejecting calls from unwanted numbers

Tap  → **Call settings** → **Call settings** → **Call rejection**, drag the **Auto reject mode** switch to the right, and then tap **Auto reject list**. Tap , enter a number, assign a category, and then tap **Save**.

Missed calls

If a call is missed,  appears on the status bar. Open the notifications panel to view the list of missed calls.

Call waiting

Call waiting is a service provided by the service provider. A user can use this service to suspend a current call and switch to an incoming call. This service is not available for video calls.

To make use of this service, tap  → **Call settings** → **Call settings** → **Additional settings** → **Call waiting**.

Call forwarding

The device can be set to send incoming calls to a specified number.

Tap  → **Call settings** → **Call settings** → **Call forwarding**, and then select a call type and condition. Enter a number and tap **Enable**.

Ending a call

Tap **End call** to end a call. Or press the headset button.

Video calls

Making a video call

Enter the number or select a contact from the contacts list, and then tap  to make a video call.

During a video call

The following actions are available:

- **Capture:** Capture the other party's image.
- **Record:** Take a video of the other party's images.



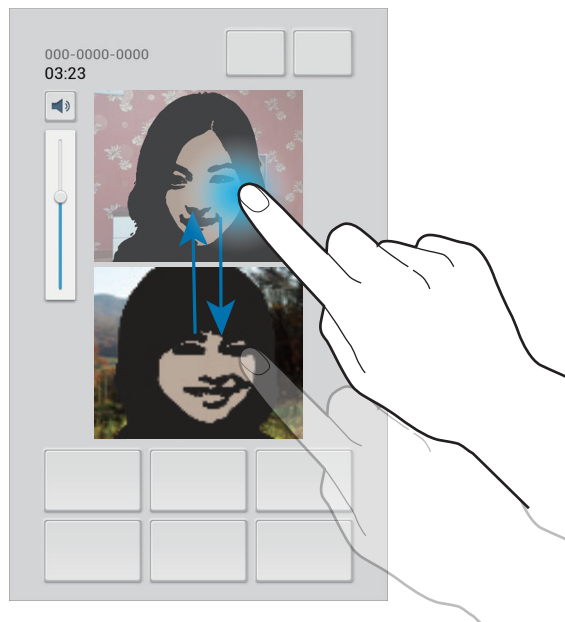
It is illegal in many countries to record a call without the other party's prior permission.

- **Switch camera:** Switch between the front and rear camera.
- **Keypad:** Open the keypad.
- **Speaker:** Deactivate the speakerphone feature.
- **Mute:** Turn off the microphone so that the other party cannot hear you.
- **Headset:** Switch to a Bluetooth headset if it is connected to the device.

-  → **Hide me**: Hide your image from the other party.
-  → **Outgoing image**: Select an image to show it to the other party.
-  → **Animated emotions**: Apply emotional icons to your image.
-  → **Theme view**: Apply decorative icons to your image.
-  → **Enable cartoon view**: Change the view mode to the cartoon view.

Swapping images

Drag an image of either party onto the other party's image to swap the images.



Contacts

Use this application to manage contacts, including phone numbers, email addresses, and others.

Tap **Contacts** on the Applications screen.

Managing contacts

Creating a contact

Tap  and enter contact information.

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

Editing a contact

Select a contact to edit, and then tap .

Deleting a contact

Tap .

Setting a speed dial number

Tap  → **Speed dial setting**, select a speed dial number, and then select a contact for it. To remove a speed dial number, tap and hold it, and then tap **Remove**.

Searching for contacts

Use one of the following search methods:

- Scroll up or down the contacts list.
- Use the index at the left side of the contacts list for quick scrolling, by dragging a finger along it.
- 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.

Importing and exporting contacts

Syncing with Google Contacts

Tap  → **Merge with Google.**

Contacts synced with Google Contacts appear with  in the contacts list.

If a contact is added or deleted on the device, it is also added to or deleted from Google Contacts, and vice versa.

Syncing with Samsung Contacts

Tap  → **Merge with Samsung.**

Contacts synced with Samsung Contacts appear with  in the contacts list.

If a contact is added or deleted on the device, it is also added to or deleted from Samsung Contacts, and vice versa.

Importing contacts

Tap  → **Import/Export** → **Import from SIM card**, **Import from SD card**, or **Import from USB storage**.

Exporting contacts

Tap  → **Import/Export** → **Export to SIM card**, **Export to SD card**, or **Export to USB storage**.

Sharing contacts

Tap  → **Import/Export** → **Share namecard via**, select contacts, tap **Done**, and then select a sharing method.

Favourite contacts

Tap , and then take one of the following actions:

- **Search:** Search for contacts.
- **Add to favourites:** Add contacts to favourites.
- **Remove from favourites:** Remove contacts from favourites.
- **Grid view / List view:** View contacts in grid or list form.

Contact groups

Adding contacts to a group

Select a group, and then tap  → **Add member**. Select contacts to add, and then tap **Done**.

Managing groups

Tap , and then take one of the following actions:

- **Search:** Search for contacts.
- **Edit:** Change the group settings.
- **Add member:** Add members to the group.
- **Remove member:** Remove members from the group.
- **Send message:** Send a message to a group's members.
- **Send email:** Send an email to a group's members.
- **Change order:** Tap and hold  next to the group name, drag it up or down to another position, and then tap **Done**.

Deleting groups

Tap , select user added groups, and then tap **Delete**. Default groups cannot be deleted.

Sending a message or email to a group's members

Select a group, tap  → **Send message** or **Send email**, select members, and then tap **Done**.

Business card

Create a business card and send it to others.

Tap **Set up my profile**, enter details, such as phone number, email address, and postal address, and then tap **Save**. If user information has been saved when you set up the device, select the business card in **ME**, and then tap  to edit.

Tap  → **Share namecard via**, and then select a sharing method.

Messaging

Use this application to send text messages (SMS) or multimedia messages (MMS).

Tap **Messaging** on the Applications screen.



You may incur additional charges for sending or receiving messages while you are outside your home service area. For details, contact your service provider.

Sending messages

Tap , add recipients, enter a message, and then tap .

Use the following methods to add recipients:

- Enter a phone number.
- Tap , select contacts, and then tap **Done**.

Use the following methods to make a multimedia message:

- Tap  and attach images, videos, contacts, memos, events, and others.
- Tap  → **Add subject** to enter a subject.

Sending scheduled messages

While composing a message, tap  → **Scheduled message**. Set a time and date, and then tap **OK**. The device will send the message at the specified time and date.



- If the device is turned off at the scheduled time, is not connected to the network, or the network is unstable, the message will not be sent.
- This feature is based on the time and date set on the device. The time and date may be incorrect if you move across time zones and the network does not update the information.

Viewing incoming messages

Incoming messages are grouped into message threads by contact.

Select a contact to view the person's message.

Listening to a voice message

Tap and hold **1** on the keypad, and then follow the instructions from your service provider.

Email

Use this application to send or view email messages.

Tap **Email** on the Applications screen.

Setting up email accounts

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

Enter the email address and password. Tap **Next** for a private email account, such as Google Mail, or tap **Manual setup** for a company email account. After that, follow on-screen instructions to complete the setup.

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

Sending messages

Tap the email account to use, and then tap  at the top of the screen. Enter recipients, subject, and message, and then tap **Send**.

Tap  to add a recipient from the contacts list.

Tap **+Cc/Bcc** to add more recipients.

Tap **+Me** to add yourself as a recipient.

Tap  to attach images, videos, contacts, memos, events, and others.

Tap  to insert images, events, contacts, location information, and others into the message.

Sending scheduled messages

While composing a message, tap . Tick **Schedule sending**, set a time and date, and then tap **Done**. The device will send the message at the specified time and date.

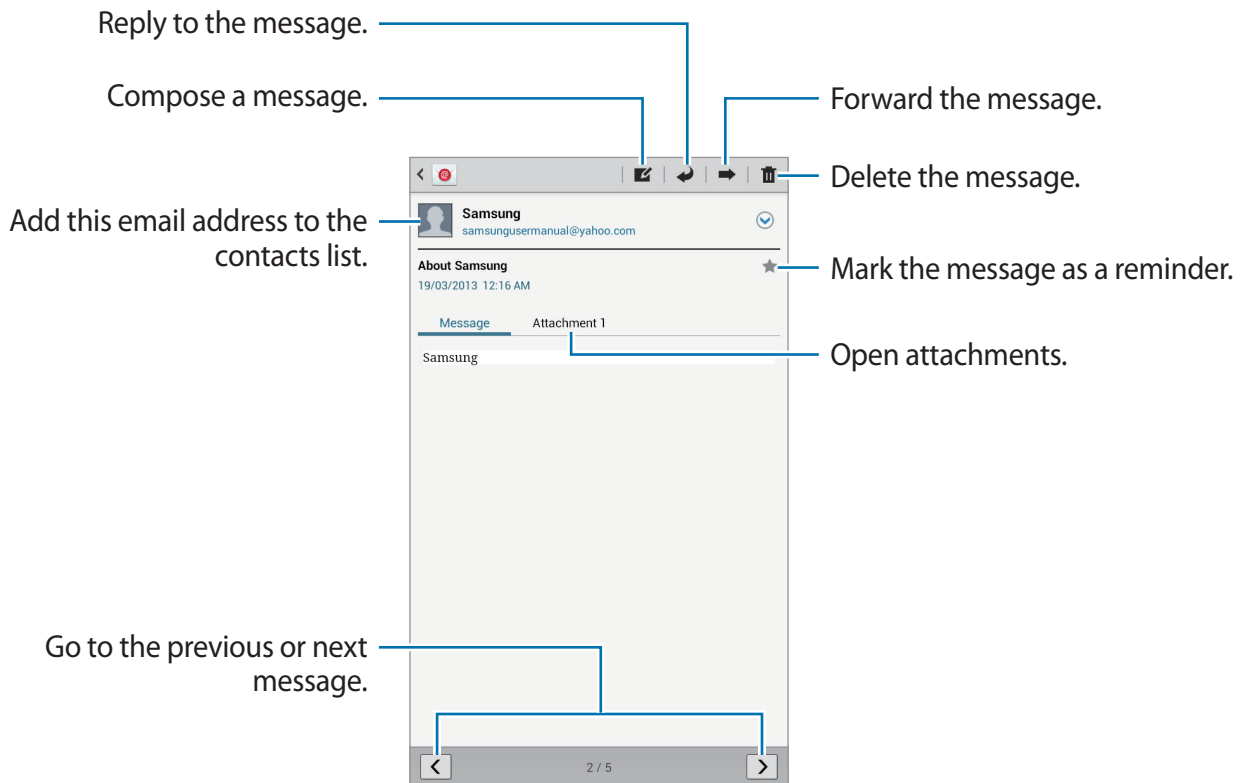


- If the device is turned off at the scheduled time, is not connected to the network, or the network is unstable, the message will not be sent.
- This feature is based on the time and date set on the device. The time and date may be incorrect if you move across time zones and the network does not update the information.

Reading messages

Select an email account to use, and new messages are retrieved. To manually retrieve new messages, tap .

Tap a message to read.



Tap the attachment tab to open attachments, and then tap  next to an attachment to save it.

Google Mail

Use this application to quickly and directly access the Google Mail service.

Tap **Google Mail** on the Applications screen.



- This application may not be available depending on the region or service provider.
- This application may be labelled differently depending on the region or service provider.

Sending messages

In any mailbox, tap , enter recipients, a subject, and a message, and then tap **SEND**.

Tap **+CC/BCC** to add more recipients.

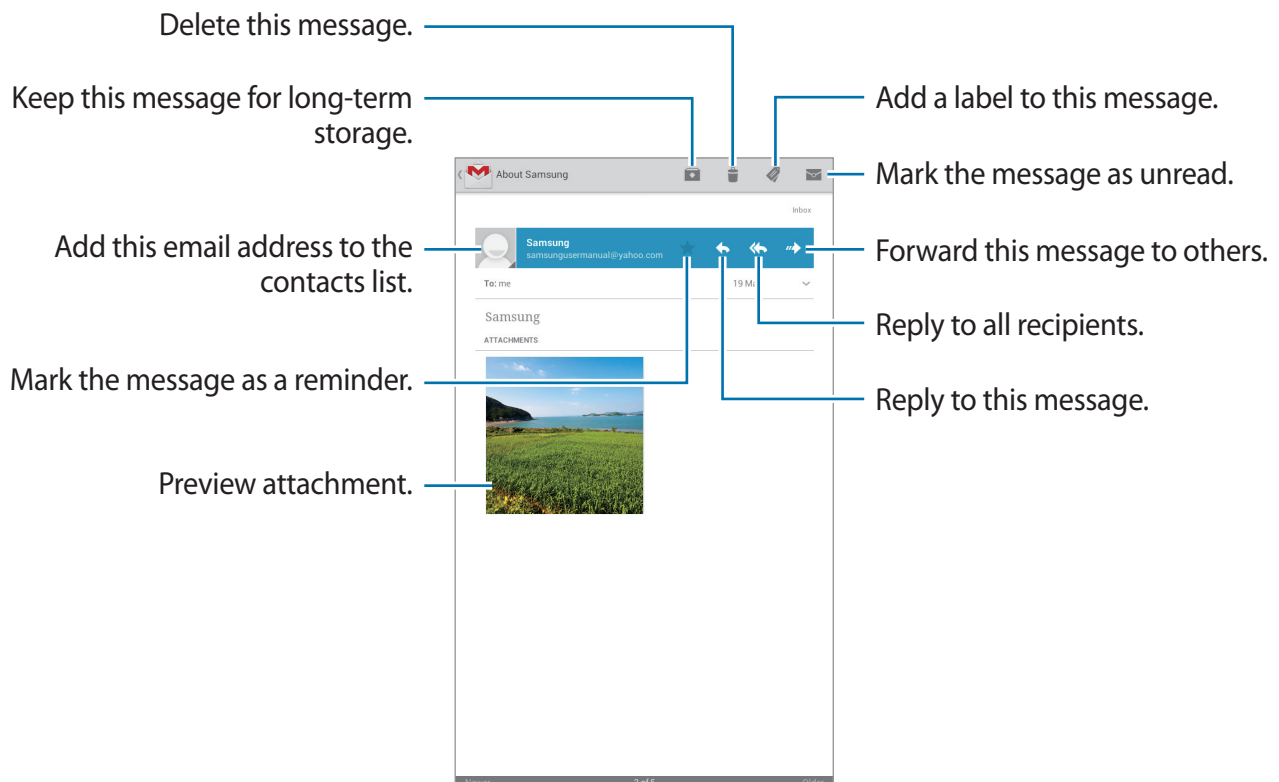
Tap  to attach images.

Tap  → **Save draft** to save the message for later delivery.

Tap  → **Attach video** to attach videos.

Tap  → **Discard** to start over.

Reading messages



Labels

Google Mail does not use actual folders, but uses labels instead. When Google Mail is launched, it displays messages labelled Inbox.

To add a label to a message, select the message, tap , and then select the label to assign.

Talk

Use this application to chat with others via Google Talk.

Tap **Talk** on the Applications screen.



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

Public profile

Tap the account ID at the top of the friends list to change the availability status, image, or status message.

Adding friends

Tap , enter the email address of the friend to add, and then tap **DONE**.

Chatting with friends

Select a friend from the friends list, enter a message in the field at the bottom of the screen, and then tap .

To add a friend to chat, tap  → **Add to chat**.

To end the chat, tap  → **End chat**.

Switching between chats

Scroll left or right.

Deleting chat history

Chats are automatically saved. To delete the chat history, tap  → **Clear chat history**.

Google+

Use this application to stay connected with people via Google's social network service.

Tap **Google+** on the Applications screen.



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

Tap **All circles** to change the category, and then scroll up or down to view posts from your circles.

Messenger

Use this application to chat with others via Google+ instant messaging service.

Tap **Messenger** on the Applications screen.



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

Select a friend from the friends list, enter a message in the field at the bottom of the screen, and then tap ►.

ChatON

Use this application to chat with any device. To use this application, you must sign in to your Samsung account.

Tap **ChatON** on the Applications screen.



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

Create a buddies list by entering phone numbers or Samsung account email addresses, or by selecting buddies from the list of suggestions. Alternatively, tap **Contact sync** to manually sync contacts from the device.

Tap **Chats** → **Start chat** and select a buddy to start chatting.

Web & network

Internet

Use this application to browse the Internet.

Tap **Internet** on the Applications screen.

Viewing webpages

Tap the address field, enter the web address, and then tap **Go**.

Tap  to share, save, or print the current webpage while viewing a webpage.

Opening a new page

Tap .

To go to another webpage, scroll left or right on the title field, and tap the page to select it.

Searching the web by voice

Tap the address field, tap , speak a keyword, and then select one of the suggested keywords that appear.



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

Bookmarks

To bookmark the current webpage, tap .

To open a bookmarked webpage, tap , and then select one.

History

Tap  → **History** to open a webpage from the list of recently-visited webpages. To clear the history, tap  → **Clear history**.

Tap  → **History** → **Most visited** to open a webpage from the list of most visited webpages.

Links

Tap and hold a link on the webpage to open it in a new page, save, or copy.

To view saved links, tap  → **Downloads**.

Sharing webpages

To share a webpage address with others, tap  → **Share page**.

To share a part of a webpage, tap and hold the desired text, and then tap  → **Share**.

Chrome

Use this application to search for information and browse webpages.

Tap **Chrome** on the Applications screen.



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

Viewing webpages

Tap the address field, and then enter a web address or search criteria.

Opening a new page

Tap  → **New tab**.

To go to another webpage, scroll left or right on the title field, and tap the page to select it.

Searching the web by voice

Tap the address field, tap , speak a keyword, and then select one of the suggested keywords that appear.

Syncing with other devices

Sync open tabs and bookmarks to use with Chrome on another device, when you are logged in with the same Google account.

To view open tabs on other devices, tap  → **Other devices**. Select a webpage to open.

To view bookmarks, tap  → **Bookmarks**.

Bluetooth

Bluetooth creates a direct wireless connection between two devices over short distances. Use Bluetooth to exchange data or media files with other devices.



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

Samsung is not responsible for the repercussion of illegal use of the Bluetooth feature.

To activate Bluetooth, on the Applications screen, tap **Settings** → **Bluetooth**, and then drag the **Bluetooth** switch to the right.

Pairing with other Bluetooth devices

On the Applications screen, tap **Settings** → **Bluetooth** → **Scan**, and detected devices are listed. Select the device you want to pair with, and then accept the auto-generated passkey on both devices to confirm.

Sending and receiving data

Many applications support data transfer via Bluetooth. An example is **Gallery**. Open **Gallery**, select an image, tap  → **Bluetooth**, and then select one of the Bluetooth devices. After that, accept the Bluetooth authorisation request on the other device to receive the image. The transferred file is saved in the **Bluetooth** folder. If a contact is received, it is added to the contacts list automatically.

Samsung Link

Use this application to play contents saved on various devices over the Internet. You can play and send any file on any device to another device or web storage server.

To use this application, you must sign in to your Samsung account and register two or more devices as file servers. The registration methods may vary depending on the device type. To get more details, tap  → **FAQ**.

Tap **Samsung Link** on the Applications screen.



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

Sending files

Select a device or web storage, select a file, and then tap .

Sharing files

Select a device or web storage, select a file, tap , and then use the following options:

- **Group Play:** Share screens with multiple devices that are connected to the same Wi-Fi network.
- **Facebook / Twitter / Flickr / Picasa:** Upload files to a social network site.

Playing files on a remote device

Select a device or web storage, select a file, tap , and then select a device.



- Supported file formats may differ depending on connected devices as a media player.
- Some files may be buffered while playing depending on the network connection.

Using the Group Play feature

Share screens with multiple devices that are connected to the same Wi-Fi network.

Select a media category, select files by ticking, and then tap  → **Group Play**. Enter a PIN and tap **Done** to start Group Play. On another device, join Group Play with the PIN.

Managing contents on a web storage server

Select a web storage server, and then view and manage your files.

Group Play

Use this application to share images, documents, and music with other devices that are connected to the same Wi-Fi network.

Tap **Group Play** on the Applications screen.



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

Sharing files

- 1 Tap **Start** → **Share picture**, **Share document**, or **Share music**, select the files to share, and then tap **Done**.
- 2 Enter a PIN code and tap **Done**.

Joining another Group Play

Tap **Join** → another device, enter the PIN code, and then tap **Done**.

Media

Music Player

Use this application to listen to music.

Tap **Music Player** on the Applications screen.

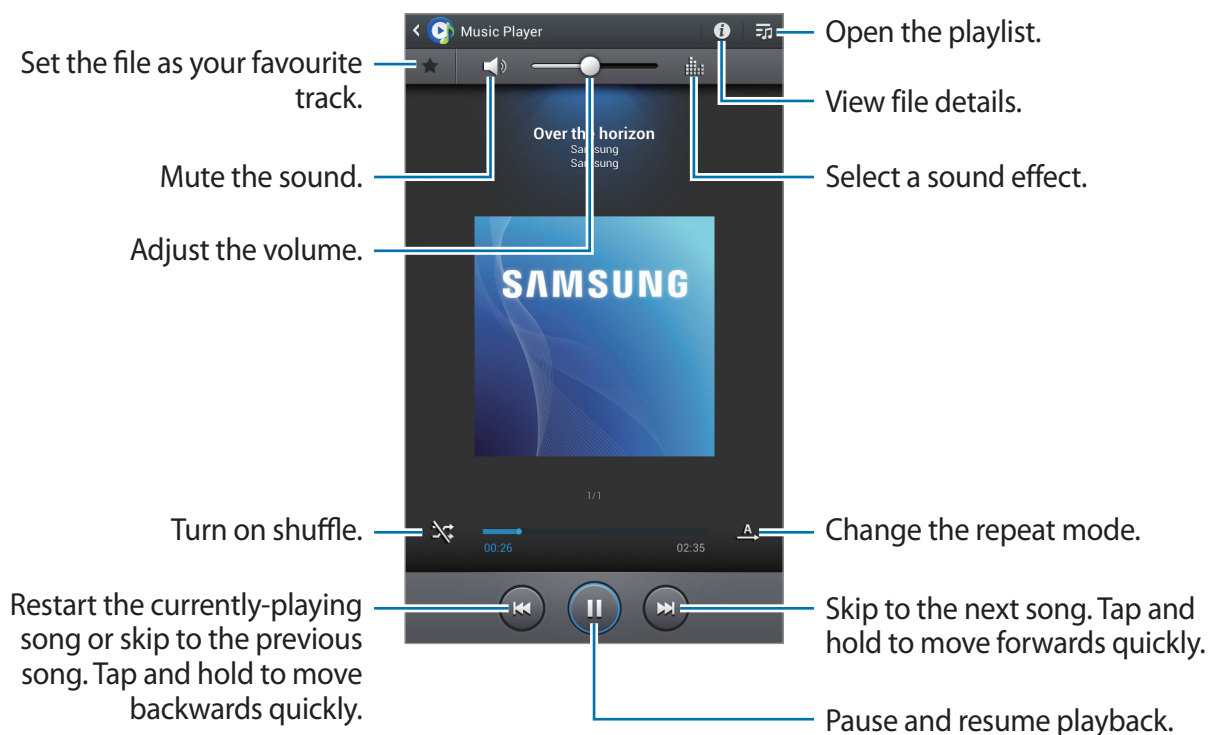


- Some file formats are not supported depending on the software installed on the device.
- Some files may not play properly depending on the encoding method used.

Playing music

Select a music category, and then select a song to play.

Tap the album image to open the music player screen.



Setting a song as ringtone

To use the currently-playing song as ringtone, tap  → **Set as** → **Call ringtone**.

Creating playlists

Make an own selection of songs.

Tap  → **Create playlist**. Enter a title and tap **OK**. Select songs to include, and then tap **Done**.

To add the currently-playing song to a playlist, tap  → **Add to playlist**.

Playing music by mood

Play music grouped by mood. The playlist is automatically created by the device. When a new song is added, tap **Music square** → .

Tap **Music square** and select a cell of mood. Or select multiple cells by dragging your finger.

Camera

Use this application to take photos or videos.

Use **Gallery** to view photos and videos taken with the device's camera. (p. 66)

Tap **Camera** on the Applications screen.



The camera automatically shuts off when unused.

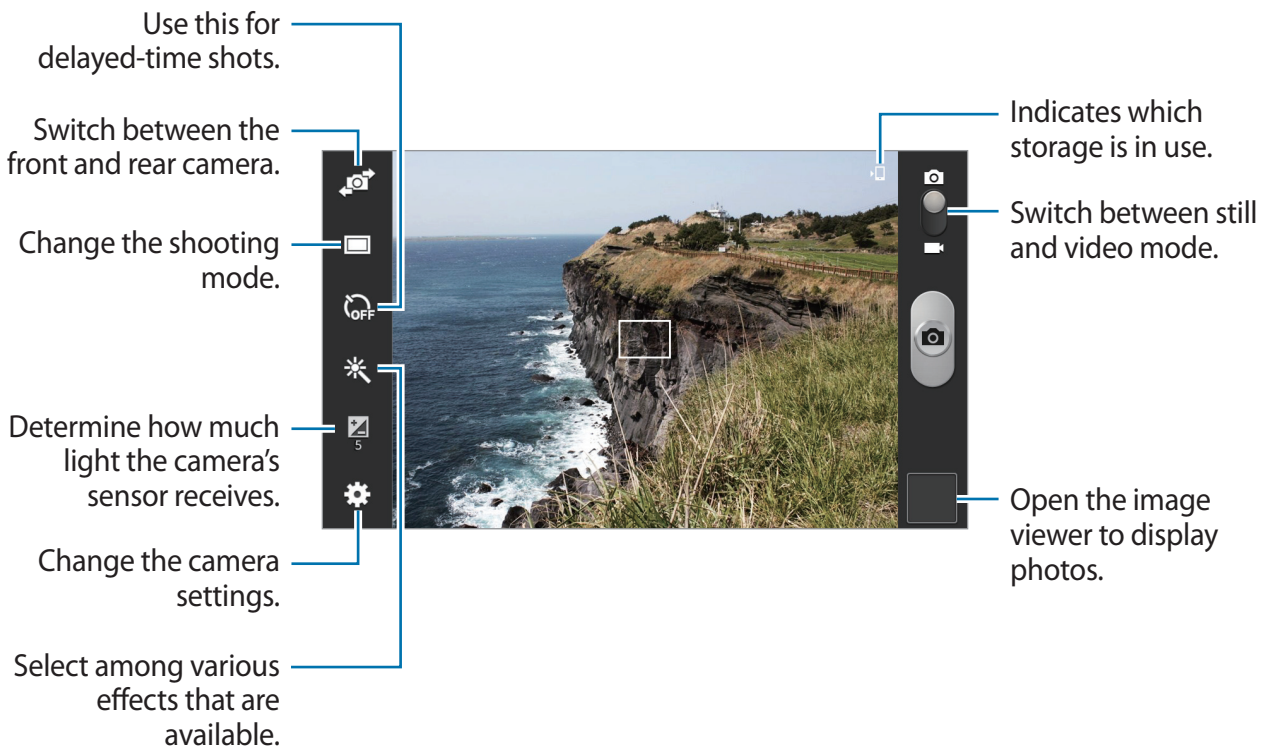
Camera etiquette

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

Taking photos

Taking a photo

Tap  to take a photo.



Scene mode

Predefined settings make point-and-shoot photos easier to take.

Tap  → **Scene mode**.

- **Landscape:** Use this setting to take photos of blue skies and landscapes with richer colours.
- **Sports:** Use this setting for fast-moving subjects.
- **Party/Indoor:** Use this setting for well-lit indoor scenes.
- **Beach/Snow:** Use this setting for well-lit or sunny outdoor scenes.

- **Sunset:** Use this setting for richer colours and sharper contrasts.
- **Dawn:** Use this setting for very subtle colours.
- **Autumn colour:** Use this setting for red-shifted background scenery.
- **Candlelight:** Use this setting for images of bright light against a dark background.
- **Firework:** Use this setting for high-contrast scenes.
- **Backlight:** Use this setting for subjects with bright lights behind them.
- **Night:** Use this setting for images taken in darker conditions.

Shooting mode

Several photo effects are available.

Tap  → **Shooting mode**.

- **Single shot:** Take a single photo.
- **Panorama:** Take a photo composed of many photos strung together.
- **Share shot:** Send a photo directly to another device via Wi-Fi Direct.
- **Buddy photo share:** Set the device to recognise a person's face that you have tagged in a photo and send it to that person. Face recognition may fail depending on the face angle, face size, skin colour, facial expression, light conditions, or accessories the subject is wearing.
- **Smile shot:** Take a photo when a subject smiles.

Panoramic photos

A panoramic photo is a wide landscape image consisting of multiple shots.

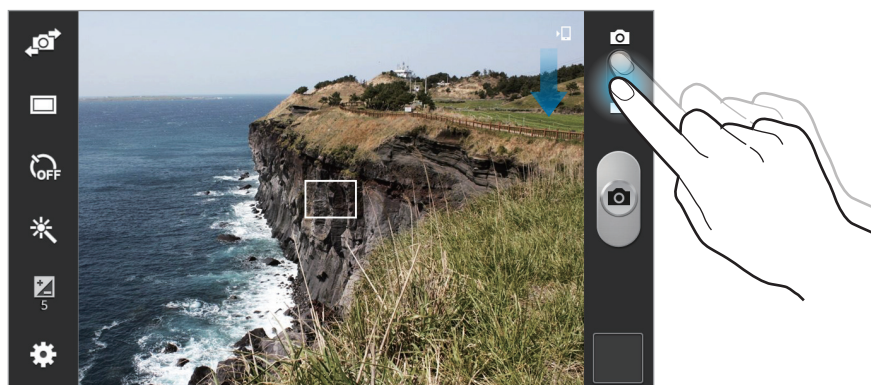
Tap  → **Shooting mode** → **Panorama**.

Tap  and move the camera in any direction. When two panorama guide frames are aligned, the camera automatically takes another shot in a panoramic sequence. To stop shooting, tap  again.

Taking videos

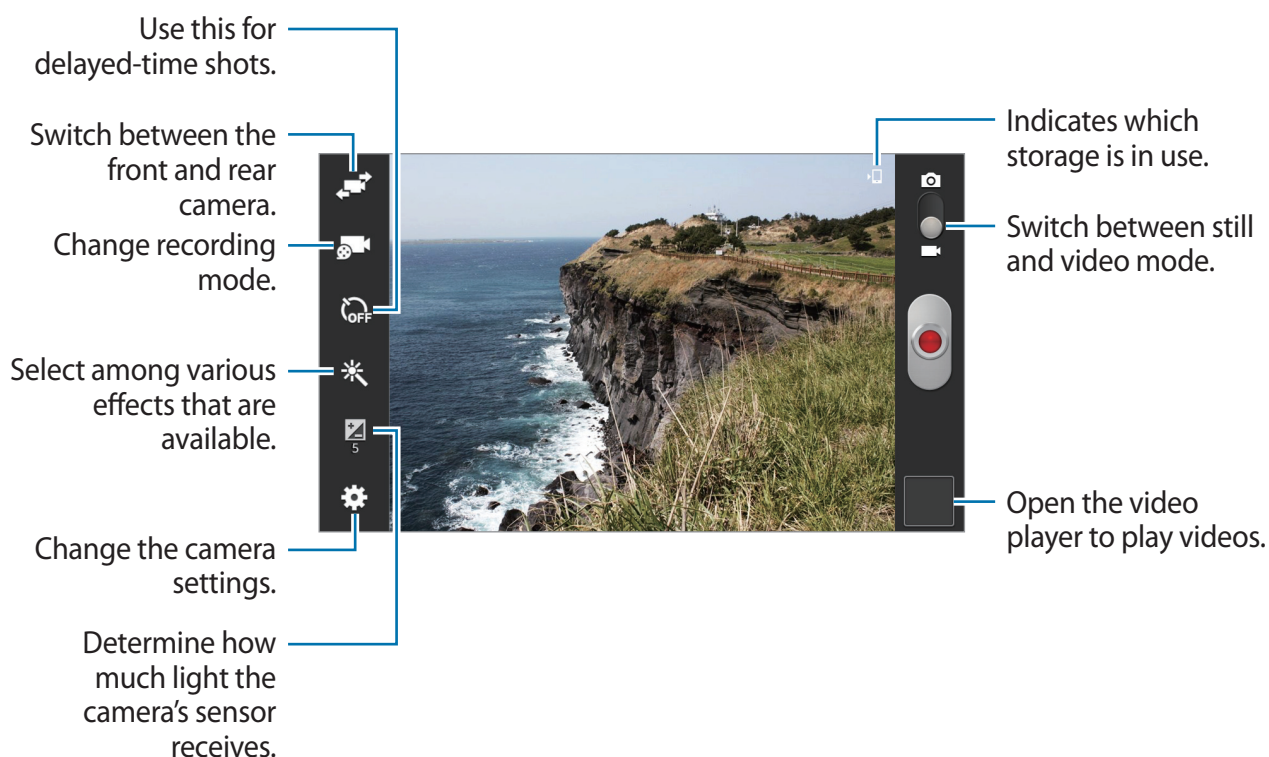
Taking a video

Slide the still-video switch to the video icon, and then tap  to take a video. To stop recording, tap .



The zoom function may not be available when recording at the highest resolution.

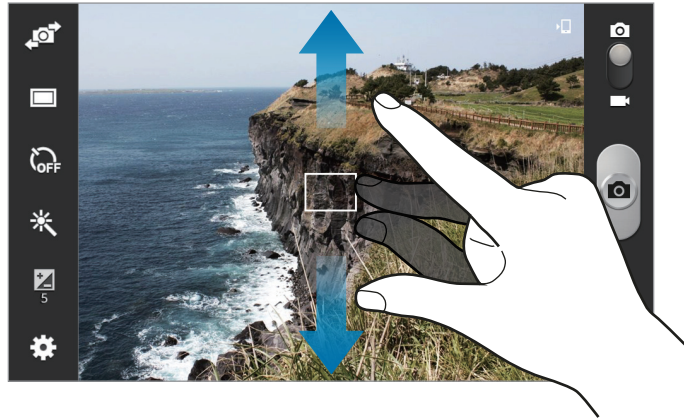
Recording mode



Tap  to change recording mode.

- **Normal:** Use this mode for normal quality.
- **Limit for MMS:** Use this mode to lower quality for sending via messaging.
- **Limit for Email:** Use this mode to lower quality for sending via email.

Zooming in and out



Use one of the following methods:

- Use the Volume button to zoom in or out.
- Spread two fingers apart on the screen to zoom in, and pinch to zoom out.



- The zoom function may not be available when shooting at the highest resolution.
- The zoom in/out effect is available when using the zoom feature while shooting video.

Configuring settings for Camera

Tap  to configure settings for Camera. Not all of the following options are available in both still camera and video camera modes. The available options vary depending on the mode used.

- **Edit shortcuts:** Reorganise shortcuts to frequently-used options.
- **GPS tag:** 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 GPS tag setting.
- **Self portrait:** Take a photo of yourself.
- **Self recording:** Take a video of yourself.
- **Shooting mode:** Change the shooting mode.
- **Recording mode:** Change the recording mode.
- **Effects:** Select among various effects that are available.
- **Scene mode:** Change the scene mode.
- **Brightness:** Change the brightness.
- **Timer:** Use this for delayed-time shots.
- **Resolution:** Select a resolution. Use higher resolution for higher quality. But it takes up more memory.
- **White balance:** Select an appropriate white balance, so images have a true-to-life colour range. The settings are designed for specific lighting situations. These settings are similar to the heat range for white-balance exposure in professional cameras.
- **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.

- **Guidelines:** Display viewfinder guides to help composition when selecting subjects.
- **Take photos using voice:** Set the camera to take photos with voice commands.
- **Image quality:** Set the quality level for photos. Higher quality images require more storage space.
- **Video quality:** Set the quality level for videos.
- **Storage:** Select the memory location for storage.
- **Reset:** Reset the camera settings.

Shortcuts

Reorganise shortcuts for easy access to the camera's various options.

Tap  → **Edit shortcuts**.

Tap and hold an option and drag it to a slot at the left of the screen. The other icons can be moved within the list by tapping and dragging them.

Gallery

Use this application to view images and videos.

Tap **Gallery** on the Applications screen.



- Some file formats are not supported depending on the software installed on the device.
- Some files may not play properly depending on the encoding method used.

Viewing images

Launching **Gallery** displays available folders. When another application, such as **Email**, saves an image, the **Download** folder is automatically created to contain the image. Likewise, capturing a screenshot automatically creates the **Screenshots** folder. Select a folder to open it.

In a folder, images are displayed by creation date. Select an image to view it in full screen. Scroll left or right to view the next or previous image.

Zooming in and out

Use one of the following methods to zoom in an image:

- Double-tap anywhere to zoom in.
- Spread two fingers apart on any place to zoom in. Pinch to zoom out, or double-tap to return.

Playing videos

Video files show the  icon on the preview. Select a video to watch it and tap .

Editing images

When viewing an image, tap  and use the following functions:

- **Face tag:** Register the faces in the image as face tags.
- **Copy to clipboard:** Copy to clipboard.
- **Rotate left:** Rotate anticlockwise.
- **Rotate right:** Rotate clockwise.
- **Crop:** Resize the blue frame to crop and save the image in it.
- **Edit:** Launch the Photo editor application.
- **Set as:** Set the image as wallpaper or a contact image.
- **Buddy photo share:** Send the image to a person whose face is tagged in the image.
- **Print:** Print the image via a USB or Wi-Fi connection. The device is only compatible with some Samsung printers.
- **Rename:** Rename the file.
- **Scan for nearby devices:** Search for devices that have media sharing activated.
- **Details:** View image details.

Favourite images

When viewing an image, tap  to add the image to the favourites list.

Deleting images

Use one of the following methods:

- In a folder, tap  → **Select item**, select images by ticking, and then tap .
- When viewing an image, tap .

Sharing images

Use one of the following methods:

- In a folder, tap  → **Select item**, select images by ticking, and then tap  to send them to others.
- When viewing an image, tap  to send it to others or share it via social network services.

Setting as wallpaper

When viewing an image, tap  → **Set as** to set the image as wallpaper or to assign it to a contact.

Tagging faces

When viewing an image, tap  → **Face tag** → **On**. A yellow frame appears around the recognised face. Tap the face, tap **Add name**, and then select or add a contact.

When the face tag appears on an image, tap the face tag and use available options, such as making calls or sending messages.



Face recognition may fail depending on the face angle, face size, skin colour, facial expression, light conditions, or accessories the subject is wearing.

Creating new albums

Tap  → **New album**, enter a title for the album, and then tap **OK**. Select a folder in the left panel, and then select images in the right panel. Tap and hold the selected images, drag them to the new album, and then tap **Done** → **Move** or **Copy**.

Video Player

Use this application to play video files.

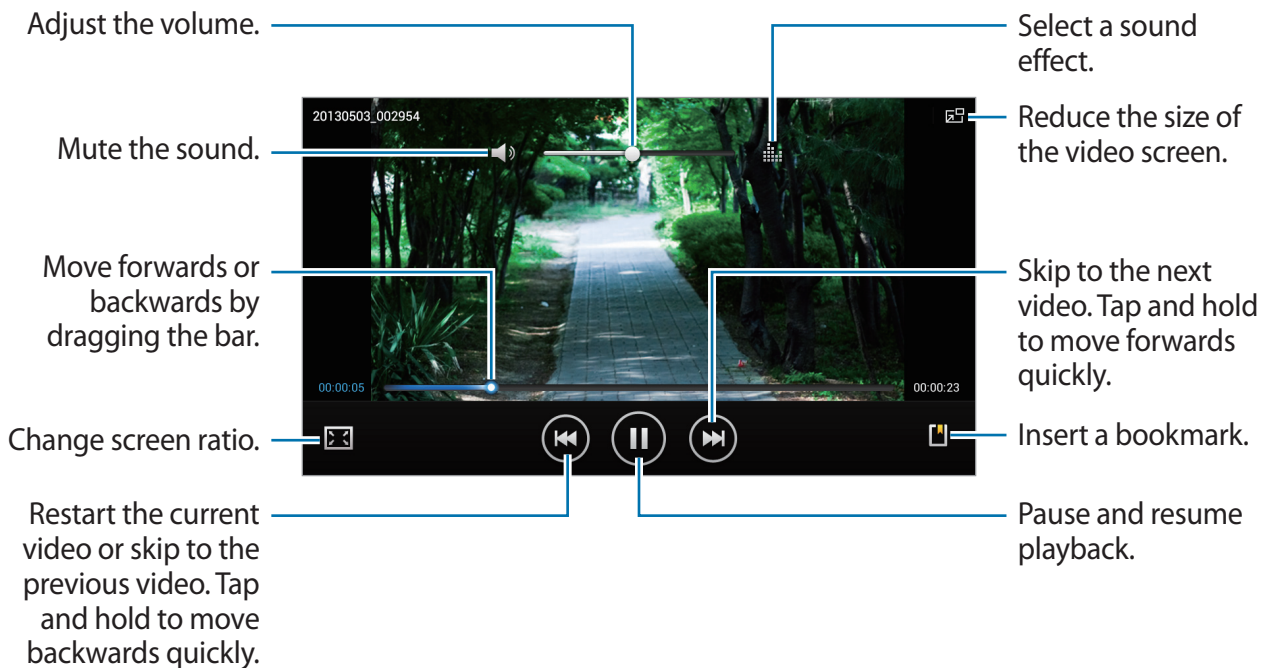
Tap **Video Player** on the Applications screen.



- Avoid locking the device's screen while playing a DivX Video-On-Demand. Each time you lock the screen while playing a DivX Video-On-Demand, one of your available rental counts is lost.
- Some file formats are not supported depending on the software installed on the device.
- Some files may not play properly depending on the encoding method used.

Playing videos

Select a video to play.



Deleting videos

Tap  → **Delete**, select videos by ticking, and then tap **Delete**.

Sharing videos

Tap  → **Share via**, select a sharing method, select videos by ticking, and then tap **Share**.

Using Popup Video player

Use this feature to use other applications without closing the video player. While watching videos, tap  to use the pop-up player.

Spread two fingers apart on the screen to enlarge the player or pinch to reduce it. To move the player, drag the player to another location.

YouTube

Use this application to watch videos from the YouTube website.

Tap **YouTube** on the Applications screen.

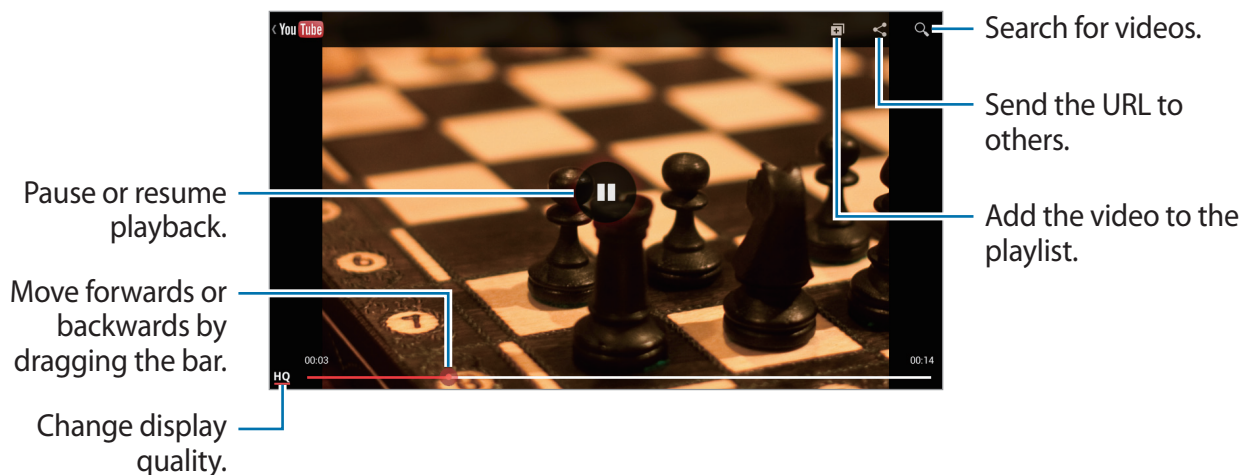


This application may not be available depending on the region or service provider.

Watching videos

Tap , and then enter a keyword. Select one of the returned search results to watch a video.

Rotate the device to landscape orientation to display full screen.



Sharing videos

Select the video to view, tap , and then select a sharing method.

Uploading videos

Select your account, tap , select a video, enter information for the video, and then tap **UPLOAD**.

Flipboard

Use this application to access your personalised magazines.

Tap **Flipboard** on the Applications screen.



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

To start your Flipboard, flick left on the greeting page, select news topics, and then tap **Build Your Flipboard**.

Select a cover story or a topic, flick through the Flipboard pages, and then select an article to read.

While reading an article, use the following icons:

-  : Go to the previous page.
-  : View others' comments about the article.
-  : Share the article with others.

Application & media stores

Play Store

Use this application to purchase and download applications and games that are able to run on the device.

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



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

Installing applications

Browse applications by category, or tap  to search with a keyword.

Select an application to view information. To download it, tap **Install**. If there is a charge for the application, tap the price, and follow on-screen instructions to complete the purchase process.



- When a new version is available for any installed application, an update icon appears at the top of the screen to alert you to the update. Open the notifications panel and tap the icon to update the application.
- To install applications that you downloaded from other sources, on the Applications screen, tap **Settings** → **Security** → **Unknown sources**.

Uninstalling applications

Uninstall the applications purchased from **Play Store**.

Tap , select an application to delete in the list of installed applications, and then tap **Uninstall**.

Samsung Apps

Use this application to purchase and download dedicated Samsung applications. For more information, visit www.samsungapps.com.

Tap **Samsung Apps** on the Applications screen.



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

Installing applications

Browse applications by category. Tap  to select a category.

To search for an application, tap  at the top of the screen, and then enter a keyword in the search field.

Select an application to view information. To download it, tap **Get** or **Buy**.



When a new version is available for any installed application, an update icon appears at the top of the screen to alert you to the update. Open the notifications panel and tap the icon to update the application.

Game Hub

Use this application to access games.

Tap **Game Hub** on the Applications screen.



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

Scroll left or right and select a game to download from **Samsung Apps**.

Music Hub

Use this application to purchase and download songs.

Tap **Music Hub** on the Applications screen.



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

Tap the search field, and then enter a keyword to search for. Select one from the list of search results.

To buy an album, select the price tag, and then follow on-screen instructions to complete the purchase process.

Play Books

Use this application to read and download book files.

Tap **Play Books** on the Applications screen.



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

Select a book file by scrolling left or right. While reading a book file, tap  to access additional options.

To purchase book files, tap .

Play Movies

Use this application to watch, download, and rent movies or TV shows.

Tap **Play Movies** on the Applications screen.



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

Select a category at the top of the screen, and then select a movie, TV programme, or video to play or rent.

Play Music

Use this application to listen to music from the device or stream music from the Google cloud service.

Tap **Play Music** on the Applications screen.



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

Play music by selecting a music category or share songs with others by uploading them to the Google cloud storage.

Play Magazines

Use this application to read and download magazines.

Tap **Play Magazines** on the Applications screen.



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

Select a category, and then select a magazine.

Video Hub

Use this application to access and purchase videos.

Tap **Video Hub** on the Applications screen.



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

Select a category, and then select a video.

Learning Hub

Use this application to access learning material.

Tap **Learning Hub** on the Applications screen.



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

Select a category, and then select a video lecture or book.

Utilities

Memo

Use this application to record important information to save and view at a later date.

Tap **Memo** on the Applications screen.

Composing memos

Tap , enter a memo, and then tap **Done**.

To change the background colour, tap  → **Colour**. Each category has different background colour.

To lock the memo so that others cannot view it, tap  → **Lock**.

Browsing memos

Browse memo thumbnails by scrolling up or down.

To search for a memo, tap .

To change the view mode, tap .

To delete memos, tap .

To sort memos by date, tap  → **Sort by**.

To send the text in the memos to others, tap  → **Share text via**.

To send memos to others, tap  → **Share via**.

To print memos via a USB or Wi-Fi connection, tap  → **Print**. The device is only compatible with some Samsung printers.

To sync memos with a Google account, tap  → **Memo sync**.

Viewing a memo

Tap the memo thumbnail to open it. Scroll left or right to see more memos.

To edit the memo, tap the memo.

To delete the memo, tap  → **Delete**.

To change the background colour, tap  → **Colour**.

To set a PIN to lock or unlock the memo, tap  → **Lock**.

To print the memo via a USB or Wi-Fi connection, tap  → **Print**. The device is only compatible with some Samsung printers.

To send the text to others, tap  → **Share text via**.

To send the memo to others, tap  → **Share via**.

S Planner

Use this application to manage events and tasks.

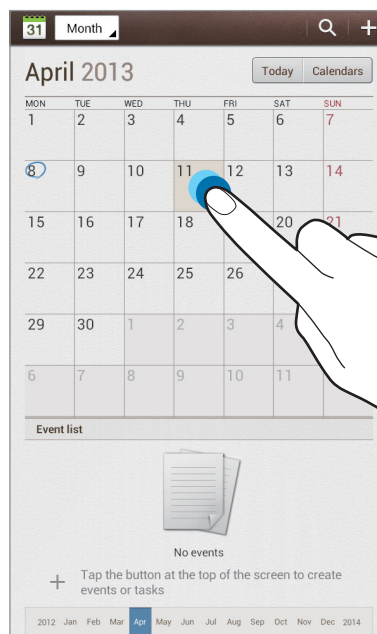
Tap **S Planner** on the Applications screen.

Creating events or tasks

Tap , and then use one of the following methods:

- **Add event:** Enter an event with an optional repeat setting.
- **Add task:** Enter a task with an optional priority setting.

To add an event or task more briefly, tap a date to select it and tap it again.



Enter a title and specify which calendar to use or sync with. Then tap **Edit event details** or **Edit task details** to add more details, such as how often the event repeats, when it has an advance alert, or where it takes place.

Attach a map showing the location of the event. Enter the location in the **Location** field, tap  next to the field, and then pinpoint the precise location by tapping and holding on the map that appears.

Attach an image. Tap **Images**, and then take a photo or select one of the existing images.

Syncing with Google Calendar

On the Applications screen, tap **Settings** → **Google** under **Accounts** → a Google account → **Sync Calendar** → **Sync now**. To manually sync for updating, on the Applications screen, tap **S Planner** →  → **Sync**.

To display synced event or task, tap  → **Settings** → **View settings** → **Calendars**, select the Google account, and then tap **OK**.

Changing calendar type

Tap the top left of the screen, and then select one from among different types of calendars including month, week, and others. A pinch gesture can be used to change calendar type. For example, pinch to change from the monthly calendar to the yearly calendar, and spread apart to change yearly calendar back to monthly calendar.

Searching for events

Tap , and then enter a keyword to search for.

To view today's events, tap **Today** at the top of the screen.

Deleting events

Select an event, and then tap **Delete**.

Sharing events

Select an event, tap  → **Share via**, and then select a sharing method.

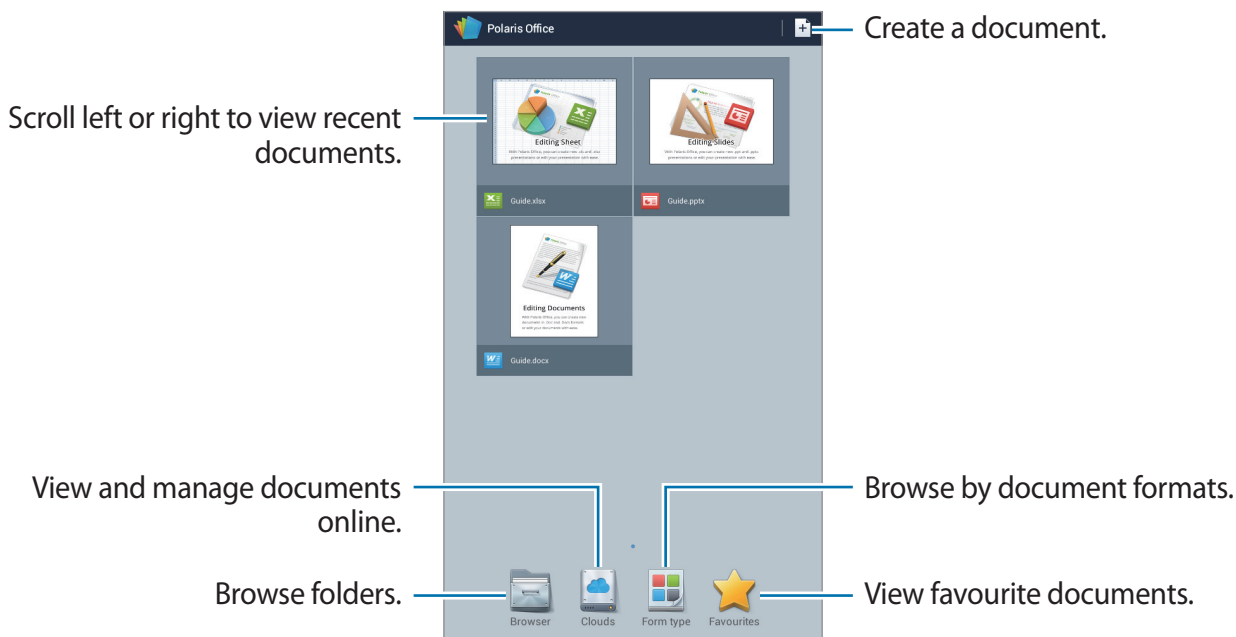
Polaris Office

Use this application to edit documents in various formats, including spreadsheets and presentations.

Tap **Polaris Office** on the Applications screen.



Some functions may not be available, depending on the file type.



Creating documents

Tap , and then select a document type.

Use the editing toolbar at the top of the screen to edit the document.

To finish, tap  → **Save**, enter a filename, select a folder to save to, and then tap **Save**.

Reading documents

Tap a file on the recent documents screen. Or tap **Browser**, **Clouds**, **Form type**, or **Favourites**, and then select a file to open.

Tap , and then use one of the following functions:

Document

- **Save as:** Save the document with a different name.
- **PDF export:** Save the document as a PDF file.
- **Find & Replace:** Search for or replace text.
- **Page layout:** Change the layout of pages.
- **Full width view:** View the document contents only, without margins.
- **Zoom:** Change the view size.
- **Reflow text:** Rearrange the text to fit the screen.
- **View Comment:** View comments in the document.
- **TTS:** Read the document via the text-to-speech feature.
- **Print:** Print the document via a USB or Wi-Fi connection. The device is only compatible with some Samsung printers.

Presentation

- **Slide Show:** Start a slideshow.
- **Save as:** Save the document with a different name.
- **PDF export:** Save the document as a PDF file.
- **Find & Replace:** Search for or replace text.
- **Single slide view:** View slides one by one.
- **Zoom:** Change the view size.
- **Print:** Print the document via a USB or Wi-Fi connection. The device is only compatible with some Samsung printers.

Spreadsheet

- **Save as:** Save the document with a different name.
- **Find & Replace:** Search for or replace text.
- **Protect worksheet:** Lock the sheet so that others cannot edit it.
- **Freeze frame:** Keep the selected row in place.
- **Recalculation:** Recalculate the functions on the sheet.
- **Sort:** Sort cells by specific criteria.
- **Filter:** View cells filtered by specific criteria.
- **Zoom:** Change the view size.
- **Print:** Print the document via a USB or Wi-Fi connection. The device is only compatible with some Samsung printers.

Text

- **Save as:** Save the document with a different name.
- **TTS:** Read the document via the text-to-speech feature.
- **Print:** Print the document via a USB or Wi-Fi connection. The device is only compatible with some Samsung printers.

Dropbox

Use this application to save and share files with others via the Dropbox cloud storage. When you save files to Dropbox, your device automatically syncs with the web server and any other computers that have Dropbox installed.

Tap **Dropbox** on the Applications screen.



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

When running Dropbox for the first time, tap **Start** to activate it. Follow the on-screen instructions to complete the setup.

Once Dropbox is activated, photos and videos taken with the device's camera are uploaded to Dropbox automatically. To view the uploaded photos or videos, tap .

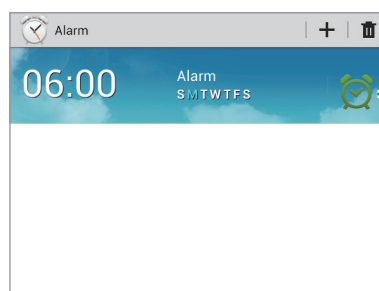
To upload files to Dropbox, tap → → **Upload here** → **Photos or videos** or **Other files**. To open files in Dropbox, select a file.

While viewing images or videos, tap to add it to the favourites list. To open files in the favourites list, tap .

Alarm

Use this application to set wake-up calls and alarms for important events.

Tap **Alarm** on the Applications screen.



Turn this alarm on or off.

Setting alarms

Tap , set a time for the alarm to go off, select days for the alarm to repeat, and then tap **Save**.

- **Location alarm:** Set a location. The alarm goes off only when you are in the location.
- **Snooze:** Set an interval and the number of times for the alarm to repeat after the preset time.
- **Smart alarm:** Set a time for the alarm to go off before the preset time.

Stopping alarms

Drag  outside the large circle to stop an alarm. Drag  outside the large circle to repeat the alarm after a specified length of time.

Deleting alarms

Tap and hold the alarm, and then tap **Delete**.

World Clock

Use this application to check the time in any location in the world.

Tap **World Clock** on the Applications screen.

Creating clocks

Tap , enter a city name or select a city from the globe, and then tap .

To apply summer time, tap and hold a clock, and then tap **DST settings**.

Deleting clocks

Tap , select clocks, and then tap **Delete**.

Calculator

Use this application for simple or complex calculations.

Tap **Calculator** on the Applications screen.

Rotate the device to landscape orientation to display the scientific calculator. If **Screen rotation** is disabled, tap  → **Scientific calculator**.

To see the calculation history, tap  to hide the keypad.

To clear the history, tap  → **Clear history**.

To change the character size for the history, tap  → **Text size**.

S Voice

Use this application to command the device by voice to dial a number, send a message, write a memo, and more.

Tap **S Voice** on the Applications screen.



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

Here are several examples of spoken commands:

- Open music
- Launch calculator
- Call Lulu mobile
- Dial Lulu work
- Check schedule

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.

Google

Use this application to search not only the Internet, but also applications and their contents on the device as well.

Tap **Google** on the Applications screen.



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

Searching the device

Tap the search field, and then enter a keyword. Alternatively, tap , speak a keyword, and then select one of the suggested keywords that appear.

If no results are returned from the applications, the web browser appears, displaying the search results.

Search scope

To select what applications to search, tap  → **Settings** → **Tablet search**, and then tick the items to search for.

Google Now

Launch Google search to view Google Now cards that show the current weather, public transit info, your next appointment, and more when you are most likely to need it.

Join Google Now when opening Google search for the first time. To change Google Now settings, tap  → **Settings** → **Google Now**.

Voice Search

Use this application to search webpages by speaking.

Tap **Voice Search** on the Applications screen.



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

Speak a keyword or phrase when **Speak now** appears on the screen. Select one of the suggested keywords that appear.

My Files

Use this application to access all kinds of files stored in the device, including images, videos, songs, and sound clips.

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

Select a folder to open it. To go back to the parent folder, tap . To return to the root directory, tap .

In a folder, use one of the following functions:

-  : Search for files.
-  : Change the view mode.
-  : Create a folder.
- **Time**: Sort files or folders.

Select a file or folder by ticking, and then use one of the following functions:

-  : Copy files or folders to another folder.
-  : Move files or folders to another folder.
-  : Delete files or folders.
-  : Send files to others.
-  → **Rename**: Rename a file or folder.
-  → **Details**: View file or folder details.

Downloads

Use this application to see what files are downloaded through the applications.

Tap **Downloads** on the Applications screen.



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

To see the files downloaded from the Internet, tap **Internet downloads**, otherwise, tap **Other downloads** to see the files downloaded from other applications, such as **Email**.

Select a file to open it with an appropriate application.

Travel & local

Maps

Use this application to pinpoint the location of the device, search for places, or get directions. Tap **Maps** on the Applications screen.



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

Searching for locations

Tap **Search Maps**, enter an address, and then tap . Select a location to view the detailed location information. To search for nearby locations, tap  → **Local**.

Once the location is found, tap  and use one of the following functions:

- **Clear Map:** Clear the map.
- **Make available offline:** Save the map of a specified area to view it offline.
- **Local:** Search for nearby locations.
- **Layers:** Overlay multiple layers including satellite images, traffic information, and more.
- **Latitude:** Share location information with friends.
- **My Places:** View offline maps, starred places, recent places, and more.
- **Settings:** Change the map settings.
- **Help:** View information about using the map.

To view current location, tap .

To zoom in or out the map, spread two fingers apart on the screen to zoom in, and pinch to zoom out.

Getting directions for a destination

- 1 Tap .
- 2 Tap , and then select a method to enter starting and ending locations:
 - **My current location:** Use current location for starting location.
 - **Contacts:** Select from the contacts list.
 - **Point on map:** Pinpoint by tapping on the map.
 - **My Places:** Select from the list of favourite places.
- 3 Select a travel method, such as driving, public transit, or walking, and then tap **Go**.
- 4 Select one of the routes that appear.

Local

Use this application to search for nearby restaurants, banks, bus stops, and more.

Tap **Local** on the Applications screen.



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

Select a place category, and then select a place from the list of search results.

- **Map:** Pinpoint the place on the map.
- **Directions:** Search for a route to the place.
- **Call:** Call the place's phone number.

To add a place category, tap  → **Add a search** on the category list, and then enter a keyword to search into the text field.

Navigation

Use this application to search for a route to a destination.

Tap **Navigation** on the Applications screen.



- Navigation maps, your current location, and other navigational data may differ from actual location information. You should always pay attention to road conditions, traffic, and any other factors that may affect your driving. Follow all safety warnings and regulations while driving.
- This application may not be available depending on the region or service provider.

Specify the destination by using one of the following methods:

- Speak the destination address.
- Enter the destination address.
- Select the destination address from the contacts list.
- Select the destination from the list of starred places.

Once a route is found, follow on-screen instructions to navigate to the destination.

Settings

About Settings

Use this application to configure the device, set application options, and add accounts. Tap **Settings** on the Applications screen.

Wi-Fi

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

To use options, tap .

- **Advanced:** Customise Wi-Fi settings.
- **WPS push button:** Connect to a secured Wi-Fi network with a WPS button.
- **WPS PIN entry:** Connect to a secured Wi-Fi network with a WPS PIN.

Setting Wi-Fi sleep policy

On the Settings screen, tap **Wi-Fi** →  → **Advanced** → **Keep Wi-Fi on during sleep**.



When the screen is turned off, the device automatically turns off Wi-Fi connections. When this happens, the device automatically accesses data networks if it is set to use them. This may incur data transfer fees. To avoid data-usage bills, set this option to **Always**.

Setting Network notification

The device can detect open Wi-Fi networks and display an icon on the status bar to notify when available.

On the Settings screen, tap **Wi-Fi** →  → **Advanced** and tick **Network notification** to activate this feature.

Wi-Fi Direct

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

On the Settings screen, tap **Wi-Fi** → **Wi-Fi Direct**.

Bluetooth

Activate the Bluetooth feature to exchange information over short distances.

To use more options, tap .

- **Rename device:** Set a Bluetooth name for the device.
- **Visibility timeout:** Set duration that the device is visible.
- **Received files:** View received files via the Bluetooth feature.

Data usage

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

- **Mobile data:** Set the device to use data connections on any mobile network.
- **Set mobile data limit:** Set a limit for the mobile data usage.
- **Data usage cycle:** Enter monthly reset date to monitor your data usage.

To use more options, tap .

- **Data roaming:** Set the device to use data connections when you are roaming.
- **Restrict background data:** Set the device to disable sync in the background while using a mobile network.
- **Auto sync data:** Set the device to sync contact, calendar, email, bookmark, and social network image data automatically.
- **Show Wi-Fi usage:** Set the device to show your data usage via Wi-Fi.
- **Mobile hotspots:** Search for and use another device's mobile network.

More settings

Customise settings to control connections with other devices or networks.

Flight mode

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

Mobile networks

- **Mobile data:** Use to allow packet switching data networks for network services.
- **Data roaming:** Use the device to connect to another network when you are roaming or your home network is not available.
- **Access Point Names:** Set up access point names (APNs).
- **Network mode:** Select a network type.
- **Network operators:** Search for available networks and select a network for roaming.

Tethering and portable hotspot

- **Portable Wi-Fi hotspot:** Use the portable Wi-Fi hotspot to share the device's mobile network connection with computers or other devices through the Wi-Fi network.
- **USB tethering:** Use USB tethering to share the device's mobile network connection with a computer via USB. When connected to a computer, the device is used as a wireless modem for the computer.
- **Bluetooth tethering:** Use the Bluetooth tethering to share the device's mobile network connection with computers via Bluetooth.
- **Help:** Learn more about USB, Wi-Fi, and Bluetooth tethering.

VPN

Set up and connect to virtual private networks (VPNs).

Nearby devices

- **File sharing:** Activate media sharing to allow other DLNA-enabled devices to access media files on your device.
- **Shared contents:** Set the device to share your content with other devices.
- **Device name:** Enter a media server name for your device.
- **Allowed devices list:** View the list of devices that can access your device.
- **Not-allowed devices list:** View the list of devices that are blocked from accessing your device.
- **Download to:** Select a memory location for saving media files.
- **Upload from other devices:** Set the device to accept uploads from other devices.

Kies via Wi-Fi

Connect the device to Samsung Kies via a Wi-Fi network.

Blocking mode

Select which notifications will be blocked or set to allow notifications for calls from specified contacts in blocking mode.

Sound

Change settings for various sounds on the device.

- **Volume:** Adjust the volume level for call ringtones, music and videos, system sounds, and notifications.
- **Device ringtone:** Select a ringtone to alert you to incoming calls.
- **Device vibration:** Add or select a vibration pattern.
- **Default notifications:** Select a ringtone for events, such as incoming messages, missed calls, and alarms.

- **Vibrate when ringing:** Set the device to vibrate and play a ringtone for incoming calls.
- **Dialling keypad tone:** Set the device to sound when tapping the buttons on the keypad.
- **Touch sounds:** Set the device to sound when selecting an application or option on the touch screen.
- **Screen lock sound:** Set the device to sound when locking or unlocking the touch screen.

Display

Change the settings for the display.

- **Wallpaper:**
 - **Home screen:** Select a background image for the Home screen.
 - **Lock screen:** Select a background image for the locked screen.
 - **Home and lock screens:** Select a background image for the Home screen and the locked screen.
- **Notification panel:** Customise the items that appear on the notifications panel.
- **Brightness:** Set the brightness of the display.
- **Screen timeout:** Set the length of time the device waits before turning off the display's backlight.
- **Font style:** Change the font type for display text.
- **Font size:** Change the font size.
- **Display battery percentage:** Set the device to display the remaining battery life.

Storage

View memory information for your device and memory card, or format a memory card.



Formatting a memory card permanently deletes all data from it.



The actual available capacity of the internal memory is less than the specified capacity because the operating system and default applications occupy part of the memory.

Power saving mode

Activate power-saving mode and change the settings for power-saving mode.

- **CPU power saving:** Set the device to limit some system resource usage.
- **Screen power saving:** Set the device to decrease the brightness of the display.
- **Learn about Power saving mode:** Discover how to reduce battery consumption.

Battery

View the amount of battery power consumed by your device.

Application manager

View and manage the applications on your device.

Location services

Change settings for location information permissions.

- **Use wireless networks:** Set the device to use Wi-Fi and/or mobile networks for finding the current location.
- **Use GPS satellites:** Set the device to use the GPS satellite for finding the current location.
- **Location and Google search:** Set the device to use your current location for Google search and other Google services.

Lock screen

Change settings for the locked screen.

- **Screen lock:** Activate the screen lock feature.
- **Lock screen options:** Change the settings for the locked screen. These settings are applied only when you set the swipe lock option.
 - **Shortcuts:** Set the device to show and edit application shortcuts on the locked screen.



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

- **Information ticker:** Set the device to show news or stock information on the locked screen.



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

- **Clock:** Set the device to show the clock on the locked screen.
 - **Dual clock:** Set the device to show the dual clock on the locked screen.
 - **Weather:** Set the device to show the weather information on the locked screen and change the settings for the weather display.
 - **Help text:** Set the device to show the help text on the locked screen.
 - **Wake up in lock screen:** Set the device to recognise your wake up command when the screen is locked.
 - **Set wake-up command:** Set a wake up command to launch **S Voice** or perform a specified function.
- **Owner information:** Enter your information that is shown on the locked screen.

Security

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

- **Encrypt device:** Set a password to encrypt data saved on the device. You must enter the password each time you turn on the device.



Charge the battery before enabling this setting because it may take more than an hour to encrypt your data.

- **Encrypt external SD card:**
 - **Encrypt:** Set the device to encrypt files when you save them to a memory card.
 - **Full encryption:** Set the device to encrypt all files on a memory card.
 - **Exclude multimedia files:** Set the device to encrypt all files on a memory card, except for media files.



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

- **Remote controls:** Set the device to allow control of your lost or stolen device remotely via the Internet. To use this feature, you must sign in to your Samsung account.
 - **Account registration:** Add or view your Samsung account.
 - **Use wireless networks:** Set the device to allow location data collection and to determine the location of your lost or stolen device via Wi-Fi or mobile network.
- **SIM Change Alert:** Activate or deactivate the Find my mobile feature which helps locate the device when lost or stolen.
- **Find my mobile web page:** Access the SamsungDive website (www.samsungdive.com). You can track and control your lost or stolen device on the SamsungDive website.
- **Set up SIM card lock:**
 - **Lock SIM card:** Activate or deactivate the PIN lock feature to require the PIN before using the device.
 - **Change SIM PIN:** Change the PIN used to access SIM or USIM data.
- **Make passwords visible:** By default, the device hides passwords for security. Set the device to display passwords as they are entered.

- **Device administrators:** View device administrators installed on the device. You can allow device administrators to apply new policies to the device.
- **Unknown sources:** Choose to install applications from any source. If not chosen, download applications only from **Play Store**.
- **Trusted credentials:** Use certificates and credentials to ensure secure use of various applications.
- **Install from device storage:** Install encrypted certificates stored on the USB storage.
- **Clear credentials:** Erase the credential contents from the device and reset the password.

Language and input

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

Language

Select a display language for all menus and applications.

Default

Select a default keyboard type for text input.

Google voice typing

To change the voice input settings, tap .

- **Choose input languages:** Select input languages for text input.
- **Block offensive words:** Set the device to prevent the device from recognising offensive words in voice inputs.
- **Download offline speech recognition:** Download and install language data for offline voice input.

Samsung keyboard

To change the Samsung keyboard settings, tap .



The available options may vary depending on the region or service provider.

- **Input languages:** Select languages for text input.
- **Predictive text:** Activate predictive text mode to predict words based on your input and show word suggestions. You can also customise the word prediction settings.
- **Continuous input:** Set the device to enter text by sweeping on the keyboard.
- **Cursor control:** Enable or disable the smart keyboard navigation feature to move the cursor by scrolling the keyboard.
- **Advanced:**
 - **Auto capitalisation:** Set the device to automatically capitalise the first character after a final punctuation mark, such as a full stop, question mark, or exclamation mark.
 - **Auto spacing:** Set the device to automatically insert a space between words.
 - **Auto-punctuate:** Set the device to insert a full stop when you double-tap the space bar.
 - **Character preview:** Set the device to display a large image of each character tapped.
 - **Key-tap sound:** Set the device to sound when a key is touched.
- **Tutorial:** Learn how to enter text with the Samsung keyboard.
- **Reset settings:** Reset Samsung keyboard settings.

Voice search

- **Language:** Select a language for the voice recognition.
- **Speech output:** Set the device to provide voice feedback to alert you to the current action.
- **Block offensive words:** Hide offensive words from voice search results.
- **Download offline speech recognition:** Download and install language data for offline voice input.
- **Bluetooth headset:** Set the device to allow a voice search with a Bluetooth headset, when it is connected to the device.

Text-to-speech output

- **Preferred TTS engine:** Select a speech synthesis engine. To change the settings for speech synthesis engines, tap .
- **Speech rate:** Select a speed for the text-to-speech feature.
- **Listen to an example:** Listen to the spoken text for an example.
- **Driving mode:** Activate driving mode to set the device to read contents aloud and specify applications to use in driving mode.

Pointer speed

Adjust the pointer speed for the mouse or trackpad connected to your device.

Backup and reset

Change the settings for managing settings and data.

- **Back up my data:** Set the device to back up settings and application data to the Google server.
- **Backup account:** Set up or edit your Google backup account.
- **Automatic restore:** Set the device to restore settings and application data when the applications are reinstalled on the device.
- **Factory data reset:** Reset settings to the factory default values and delete all data.

Add account

Add email or SNS accounts.

Accessory

Change the accessory settings.

- **Dock sound:** Set the device to play a sound when your device is connected to or removed from a desktop dock.
- **Audio output mode:** Set the device to use the dock speaker when your device is connected to a desktop dock.

Date and time

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



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.
- **Set date:** Set the current date manually.
- **Set time:** Set the current time manually.

- **Automatic time zone:** Set the device to receive time zone information from the network when you move across time zones.
- **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.

Accessibility

Accessibility services are special features for those with certain physical disabilities. Access and alert the following settings to improve accessibility to the device.

- **Auto-rotate screen:** Set the interface to rotate automatically when you rotate the device.
- **Screen timeout:** Set the length of time the device waits before turning off the display's backlight.
- **Speak passwords:** Set the device to read aloud passwords you enter with Talkback.
- **Answering/ending calls:**
 - **The home key answers calls:** Set the device to answer an incoming call when pressing the Home button.
 - **Answer calls using voice:** Set the device to answer or reject an incoming call with voice commands.
 - **The power key ends calls:** Set the device to end a call when pressing the Power button.
- **Show shortcut:** Add a shortcut to **Accessibility** on the quick menu that appears when you press and hold the Power button.
- **TalkBack:** Activate Talkback, which provides voice feedback.
- **Font size:** Change the font size.

- **Text-to-speech output:**
 - **Preferred TTS engine:** Select a speech synthesis engine. To change the settings for speech synthesis engines, tap .
 - **Speech rate:** Select a speed for the text-to-speech feature.
 - **Listen to an example:** Listen to the spoken text for an example.
 - **Driving mode:** Activate driving mode to set the device to read contents aloud and specify applications to use in driving mode.
- **Enhance web accessibility:** Set applications to install web scripts to make their web content more accessible.
- **Mono audio:** Enable mono sound when listening to audio with one earbud.
- **Turn off all sounds:** Mute all device sounds.
- **Tap and hold delay:** Set the recognition time for tapping and holding the screen.

Developer options

Change the settings for application development.

- **Desktop backup password:** Set a password to secure your backup data.
- **Stay awake:** Set the screen to remain on while you are charging the battery.
- **Protect SD card:** Set the device to request a confirmation when reading data from a memory card.
- **USB debugging:** Activate USB debugging mode to connect your device to a computer with a USB cable.
- **Allow mock locations:** Allow mock locations and service information to be sent to a Location Manager service for testing.
- **Select debug app:** Select applications to debug and prevent errors when you pause debugging.

- **Wait for debugger:** Set the device to prevent the selected application from loading until the debugger is ready.
- **Show touches:** Set the device to show the pointer when you touch the screen.
- **Show pointer location:** Set the device to show the coordinates and traces of the pointer when you touch the screen.
- **Show layout boundaries:** Set the device to show boundaries.
- **Show GPU view updates:** Set the device to flash areas of the screen when they are updated with the GPU.
- **Show screen updates:** Set the device to flash areas of the screen when they are updated.
- **Window animation scale:** Select a speed for opening and closing pop-up windows.
- **Transition animation scale:** Select a speed for switching between screens.
- **Animator duration scale:** Select how long pop-up windows will be shown.
- **Disable hardware overlays:** Set the device to hide hardware overlays.
- **Force GPU rendering:** Set the device to use 2D hardware acceleration to improve graphic performance.
- **Strict mode:** Set the device to flash the screen when applications perform long operations.
- **Show CPU usage:** Set the device to list all active processes.
- **Profile GPU rendering:** Set the device to check the time of GPU rendering time.
- **Enable traces:** Set the device to capture traces of application and system performance.
- **Do not keep activities:** Set the device to end a running application when you launch a new application.
- **Limit background processes:** Set the device to limit the number of processes that can run in the background.
- **Show all ANRs:** Set the device to alert you to unresponsive applications that are running in the background.

About device

Access device information and update device software.

Troubleshooting

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 details, 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.
- You cannot access some options without a subscription. Contact your service provider for more details.

The touch screen responds slowly or improperly

If your device has a touch screen and the touch screen is not responding properly, try the following:

- Remove any protective covers from the touch screen. Protective covers may prevent the device from recognising your inputs and are not recommended for touch screen devices.
- Ensure that your hands are clean and dry when tapping the touch screen.
- Restart your device to clear any temporary software bugs.
- Ensure that your device software is upgraded to the latest version.
- If the touch screen is scratched or damaged, take it to your local Samsung Service Centre.

Your device freezes or has fatal errors

If your device freezes or hangs, you may need to close programs or reset the device to regain functionality. If your device is frozen and unresponsive, press and hold the Power button for 8-10 seconds. The device reboots automatically.

If this does not solve the problem, perform a factory data reset. On the Applications screen, tap **Settings** → **Backup and reset** → **Factory data reset** → **Reset device** → **Erase everything**.

Calls are being dropped

When you are in areas with weak signals or poor reception, you may lose your connection to the network. Move to another area and try again.

Outgoing calls are not connected

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

Incoming calls are not connected

- Ensure that your device is turned on.
- Ensure that you have accessed the right cellular network.
- 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.

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. Move to another area and try again.

When dialling from contacts, the call is not connected

- Ensure that the correct number is stored in the contact list.
- Re-enter and save the number, if necessary.
- Ensure that you have not set call barring for the contact's phone number.

The device beeps and the battery icon is empty

Your battery is low. Recharge or replace the battery to continue using the device.

The battery does not charge properly or the device turns off

The battery in the device is not user replaceable. If you have problems with the battery or need it replaced, take the device to a Samsung Service Centre.

Your device is hot to the touch

When you use applications that require more power or use applications 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 Samsung device must have sufficient available memory and battery power to operate the camera application. If you receive error messages when launching the camera, try the following:

- Charge the battery or replace it with a battery that is fully charged.
- 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 application after trying these tips, contact a Samsung Service Centre.

Error messages appear when opening music files

Some music files may not play on your Samsung device for a variety of reasons. If you receive error messages when opening music files 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 your device supports the file type.

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, if necessary.
- 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 drivers 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.
- Ensure that you have Samsung Kies 2.0 or Windows Media Player 10 or higher installed on your computer.

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.

Some content may differ from your device depending on the region, service provider, or software version, and is subject to change without prior notice.



Health and safety information

Exposure to Radio Frequency (RF) Signals

Certification Information (SAR)

Your wireless portable device 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 Council 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 portable devices 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 portable devices 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 portable device 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 portable device while operating can be well below the maximum value. This is because the portable device 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 portable device 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 portable device are performed in positions and locations as required by the FCC.

SAR information on this and other model portable devices can be viewed on-line at <http://www.fcc.gov/oet/ea/fccid/>. Please use the portable device FCC ID number for search, A3LSMT111. Sometimes it may be necessary to remove the battery pack to find the number. Once you have the FCC ID number for a particular portable device, follow the instructions on the website and it should provide values for typical or maximum SAR for a particular portable device. Additional product specific SAR information can also be obtained at <http://www.fcc.gov/encyclopedia/specific-absorption-rate-sar-cellular-teleportable-devices>

Consumer Information on Wireless Portable devices

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 portable devices. The FDA publication includes the following information:

What kinds of portable devices are the subject of this update?

The term wireless portable device refers here to hand-held wireless portable devices with built-in antennas, often called “cell,” “mobile,” or “PCS” portable devices. These types of wireless portable devices can expose the user to measurable radio frequency energy (RF) because of the short distance between the portable device 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 portable device 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 portable devices,” which have a base unit connected to the teleportable device 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 portable devices pose a health hazard?

The available scientific evidence does not show that any health problems are associated with using wireless portable devices. There is no proof, however, that wireless portable devices are absolutely safe. Wireless portable devices 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 portable devices?

Under the law, FDA does not review the safety of radiation-emitting consumer products such as wireless portable devices before they can be sold, as it does with new drugs or medical devices. However, the agency has authority to take action if wireless portable devices 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 portable devices to notify users of the health hazard and to repair, replace or recall the portable devices so that the hazard no longer exists.

Although the existing scientific data do not justify FDA regulatory actions, FDA has urged the wireless portable device 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 portable devices;
- “Design wireless portable devices 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 portable devices with the best

possible information on possible effects of wireless portable device 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
- “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 portable devices with the Federal Communications Commission (FCC). All portable devices 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 portable devices. FCC also regulates the base stations that the wireless portable device networks rely upon. While these base stations operate at higher power than do the wireless portable devices themselves, the RF exposures that people get from these base stations are typically thousands of times lower than those they can get from wireless portable devices. 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 portable devices 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 portable devices, 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 portable devices 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 portable devices RF exposures. However, none of the studies can answer questions about long-term exposures, since the average period of portable device use in these studies was around three years.

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

A combination of laboratory studies and epidemiological studies of people actually using wireless portable devices 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 epidemiological studies is hampered by difficulties in measuring actual RF exposure during day-to-day use of wireless portable devices. Many factors affect this measurement, such as the angle at which the portable device is held, or which model of portable device is used.

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

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 portable device will reduce RF exposure.

- "If you must conduct extended conversations by wireless portable device 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 portable device away from your body.

Again, the scientific data do not demonstrate that wireless portable devices 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 portable device use.

What about children using wireless portable devices?

The scientific evidence does not show a danger to users of wireless portable devices, 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 portable devices. Reducing the time of wireless portable device 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 portable devices at all. For example, the government in the United Kingdom distributed leaflets containing such a recommendation in December 2000. They noted that no evidence exists that using a wireless portable device causes brain tumors or other ill effects. Their recommendation to limit wireless portable device use by children was strictly precautionary; it was not based on scientific evidence that any health hazard exists.

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

Since there are no known risks from exposure to RF emissions from wireless portable devices, there is no reason to believe that hands-free kits reduce risks. Hands-free kits can be used with wireless portable devices for convenience and comfort. These systems reduce the absorption of RF energy in the head because the portable device, which is the source of the RF emissions, will not be placed against the head. On the other hand, if the portable device 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 portable devices 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 portable device accessories that claim to shield the head from RF radiation work?

Since there are no known risks from exposure to RF emissions from wireless portable devices, 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 portable device cases, while others involve nothing more than a metallic accessory attached to the portable device. 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 portable device. The portable device 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 portable device 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 portable device interference with medical equipment?

Radio frequency energy (RF) from wireless portable devices 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 teleportable devices. 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 portable device EMI. FDA has tested wireless portable devices 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 portable devices so that no interference occurs when a person uses a compatible portable device 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 portable devices for possible interactions with other medical devices. Should harmful interference be found to occur, FDA will 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/CellPortable devices/default.htm](http://www.fda.gov/Radiation-EmittingProducts/RadiationEmittingProductsandProcedures/HomeBusinessandEntertainment/CellPortable%20devices/default.htm)

Road Safety

Your wireless portable device gives you the powerful ability to communicate by voice, almost anywhere, anytime. But an important responsibility accompanies the benefits of wireless portable devices, one that every user must uphold.

When driving a car, driving is your first responsibility. When using your wireless portable device behind the wheel of a car, practice good common sense and remember the following tips:

1. Get to know your wireless portable device 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 portable device with one of the many hands free accessories available today.
3. Position your wireless portable device within easy reach. Be able to access your wireless portable device 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 portable device 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 portable device 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 portable device!
9. Use your wireless portable device 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 portable device 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

Operating Environment

Remember to follow any special regulations in force in any area and always switch your portable device off whenever it is forbidden to use it, or when it may cause interference or danger. When connecting the portable device 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 Portable device 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 portable device. Consult the manufacturer to discuss alternatives.

Pacemakers

Pacemaker manufacturers recommend that a minimum distance of 15 cm (6 inches) be maintained between a wireless portable device 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 portable device more than 15 cm (6 inches) from their pacemaker when the portable device is switched on.
- should not carry the portable device 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 portable device off immediately.

Hearing Aids

Some digital wireless portable devices 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 portable device 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 portable device off in any facility where posted notices require you to do so.

Potentially Explosive Environments

Switch your portable device 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 portable device 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.

Emergency Calls

This portable device, like any wireless portable device, 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 portable device for essential communications (medical emergencies, for example).

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

To make an emergency call:

1. If the portable device 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 portable device 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 Portable device

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

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 portable device may cause TV or radio interference if used in close proximity to receiving equipment. The FCC can require you to stop using the portable device 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 Batterymarch Park, Quincy, MA 02269, Attn: Publication Sales Division.

Cautions

Changes or modifications made in the radio portable device, 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 portable device warranty if said accessories cause damage or a defect to the portable device. Although your portable device 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 portable device or install the portable device in a vehicle. Faulty installation or service may be dangerous and may invalidate any warranty applicable to the device.
- Check regularly that all wireless portable device 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 portable device, 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 portable device off before boarding an aircraft. The use of wireless portable device 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 teleportable device 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 portable device 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 portable device is unable to find a signal after 15 minutes of searching, a Power Save feature is automatically activated. If your portable device 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 portable device returns to standby mode.

Maintaining Your Portable device's Peak Performance

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

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

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

Battery Standby and Talk Time

Standby and talk times will vary depending on portable device 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

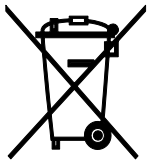
- Never use any charger or battery that is damaged in any way.
- Use the battery only for its intended purpose.
- If you use the portable device near the network's base station, it uses less power; talk and standby time are greatly affected by the signal strength on the cellular network and the parameters 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 portable device 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 portable device 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 allow you to enjoy this product for many years.

- Keep the portable device and all its parts and accessories out of the reach of small children.
- Keep the portable device dry. Precipitation, humidity and liquids contain minerals that will corrode electronic circuits.

- Do not use the portable device with a wet hand. Doing so may cause an electric shock to you or damage to the portable device.
- Do not use or store the portable device in dusty, dirty areas, as its moving parts may be damaged.
- Do not store the portable device in hot areas. High temperatures can shorten the life of electronic devices, damage batteries, and warp or melt certain plastics.
- Do not store the portable device in cold areas. When the portable device warms up to its normal operating temperature, moisture can form inside the portable device, which may damage the portable device's electronic circuit boards.
- Do not drop, knock or shake the portable device. Rough handling can break internal circuit boards.
- Do not use harsh chemicals, cleaning solvents or strong detergents to clean the portable device. Wipe it with a soft cloth slightly dampened in a mild soap-and-water solution.
- Do not paint the portable device. Paint can clog the device's moving parts and prevent proper operation.
- Do not put the portable device in or on heating devices, such as a microwave oven, a stove or a radiator. The portable device may explode when overheated.
- When the portable device or battery gets wet, the label indicating water damage inside the portable device changes color. In this case, portable device repairs are no longer guaranteed by the manufacturer's warranty, even if the warranty for your portable device has not expired.
- If your portable device 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 portable device and violate regulations governing radio devices.
- If the portable device, 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.



Correct disposal of this product

(Waste Electrical & Electronic Equipment)

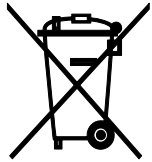
(Applicable in the European Union and other European countries with separate collection systems)

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.

This device is capable of operating in Wi-Fi mode in the 2.4 and 5 GHz bands. The FCC requires that devices operating within 5.15-5.25 GHz may only be used indoors, not outside, in order to avoid interference with MobileSatellite Services (MSS).