

Some of the contents in this manual may differ from your device depending on the software of the device or your service provider.

To install Kies (PC Sync) Kies

1. Download the latest version of Kies from the Samsung website (www.samsung.com/kies) and install it on your PC.
2. Using a PC data cable, connect your device to your PC.
Samsung Kies will launch automatically.
If Samsung Kies does not automatically launch, double-click the Samsung Kies icon on your PC.
Refer to the Kies help for more information.

GT-S5660V user manual



Using this manual

Thank you for purchasing this Samsung mobile device. This device will provide you with high quality mobile communication and entertainment based on Samsung's exceptional technology and high standards.

This user manual has been specially designed to guide you through the functions and features of your device.

Read me first

- Please read all safety precautions and this manual carefully before using your device to ensure safe and proper use.
- The descriptions in this manual are based on the default settings of your device.
- Images and screenshots used in this user manual may differ in appearance from the actual product.

- Content in this user manual may differ from the product, or from software provided by service providers or carriers, and is subject to change without prior notice. Refer to www.samsung.com for the latest version of the user manual.
- Available features and additional services may vary by device, software, or service provider.
- Formatting and delivery of this user manual is based on Google Android operating systems and may vary depending on the user's operating system.
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- Samsung is not liable for performance issues or incompatibilities caused by user editing of registry settings.
- You may upgrade your mobile device's software by accessing www.samsung.com.

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- Please keep this manual for future reference.

Instructional icons

Before you start, familiarise yourself with the icons you will see in this manual:



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



Refer to—pages with related information; for example: ► p.12 (represents “see page 12”)



Followed by—the order of options or menus you must select to perform a step; for example: In Idle mode, open the application list and select **Settings** → **About phone** (represents **Settings**, followed by **About phone**)



Square brackets—device keys; for example: [⏻] (represents the Power/Lock key)

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Assembling

Unpack

Check your product box for the following items:

- Mobile device
- Battery
- Travel adapter (charger)
- Quick start guide



Use only Samsung-approved software. Pirated or illegal software may cause damage or malfunctions that are not covered by your manufacturer's warranty.



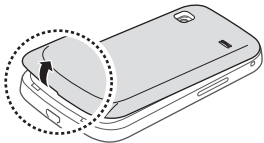
- The items supplied with your device may vary depending on the software and accessories available in your region or offered by your service provider.
- You can obtain additional accessories from your local Samsung dealer.
- The supplied accessories perform best for your device.
- Accessories other than the supplied ones may not be compatible with your device.

Install the SIM or USIM card and battery

When you subscribe to a cellular service, you will receive a Subscriber Identity Module (SIM) card, with subscription details, such as your personal identification number (PIN) and optional services. To use UMTS services, you can purchase a Universal Subscriber Identity Module (USIM) card.

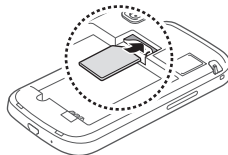
To install the SIM or USIM card and battery,

- 1 If the device is on, press and hold [ⓘ] and select **Power off** → **OK** to turn it off.
- 2 Remove the back cover.



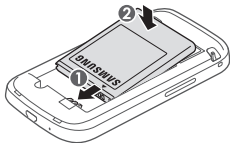
Be careful not to damage your fingernails when you remove the back cover.

- 3 Insert the SIM or USIM card with the gold-coloured contacts facing down.

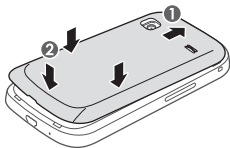


If you do not insert a SIM or USIM card, you can only use your device's non-network services and some menus.

4 Insert the battery.



5 Replace the back cover.



Charge the battery

Before using the device for the first time, you must charge the battery.

You can charge the device with a travel adapter or by connecting the device to a PC with a PC data cable.



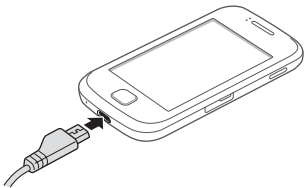
Use only Samsung-approved chargers and cables. Unauthorised chargers or cables can cause batteries to explode or damage your device.



When your battery is low, the device will emit a warning tone and display a low battery message. The battery icon  will also be empty and turn red. If the battery level becomes too low, the device will automatically power off. Recharge your battery to continue using your device.

➤ Charge with a travel adapter

- 1 Plug the small end of the travel adapter into the multifunction jack.



- ⚠ Connecting the travel adapter improperly may cause serious damage to the device. Any damage caused by misuse is not covered by the warranty.

- 2 Plug the large end of the travel adapter into a power outlet.



- You can use the device while it is charging, but it may take longer to fully charge the battery.
- While the device is charging, the touch screen may not function due to an unstable power supply. If this happens, unplug the travel adapter from the device.
- While charging, the device may heat up. This is normal and should not affect your device's lifespan or performance.
- If your device is not charging properly, bring your device and the charger to a Samsung Service Centre.

- 3 When the battery is fully charged (the battery icon is no longer moving), unplug the travel adapter from the device and then from the power outlet.

 Do not remove the battery before removing the travel adapter. Doing this may cause damage to the device.

 To save energy, unplug the travel adapter when not in use. The travel adapter does not have a power switch, so you must unplug the travel adapter from the outlet to interrupt the power supply. The travel adapter should remain close to the socket when in use.

➤ Charge with a PC data cable

Before charging, ensure that your PC is turned on.

- 1 Plug one end (micro-USB) of the PC data cable into the multifunction jack.

- 2 Plug the other end of the PC data cable into a USB port on a PC.

 Depending on the type of PC data cable you are using, it may take some time before charging begins.

- 3 When the battery is fully charged (the battery icon is no longer moving), unplug the PC data cable from the device and then from the PC.

Insert a memory card

To store additional multimedia files, you must insert a memory card. Your device accepts microSD™ or microSDHC™ memory cards with maximum capacities of 32 GB (depending on memory card manufacturer and type).

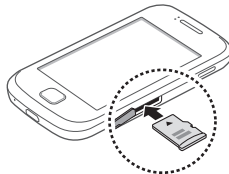


Samsung uses approved industry standards for memory cards, but some brands may not be fully compatible with your device. Using an incompatible memory card may damage your device or the memory card and can corrupt data stored on the card.



- Your device supports only the FAT file structure for memory cards. If you insert a card formatted with a different file structure, your device will ask you to reformat the memory card.
- Frequent writing and erasing of data will shorten the lifespan of memory cards.
- When you insert a memory card in your device, the file directory of the memory card will appear in the sdcard folder.

- 1 Open the cover of the memory card slot on the side of the device.
- 2 Insert a memory card with the gold-coloured contacts facing down.



- 3 Push the memory card in the memory card slot until it locks in place.
- 4 Close the cover of the memory card slot.

› Remove the memory card

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

- 1 In Idle mode, select  → **Settings** → **SD card and phone storage** → **Unmount SD card** → **OK**.
 - 2 Open the cover of the memory card slot on the side of the device.
 - 3 Push the memory card gently until it disengages from the device.
 - 4 Pull the memory card out of the memory card slot.
 - 5 Close the cover of the memory card slot.
-  Do not remove a memory card while the device is transferring or accessing information, as this could result in loss of data or damage to the memory card or device.

› Format the memory card

Formatting your memory card on a PC may cause incompatibilities with your device. Format the memory card only on the device.

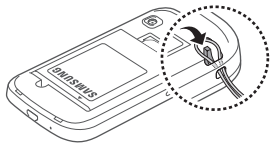
In Idle mode, select  → **Settings** → **SD card and phone storage** → **Unmount SD card** → **OK** → **Format SD card** → **Format SD card** → **Erase everything**.



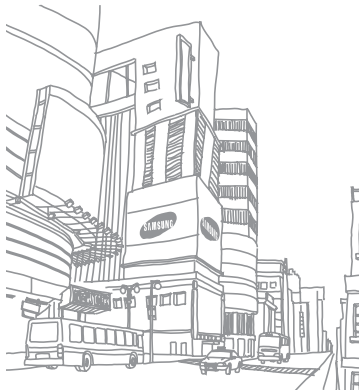
Before formatting the memory card, remember to make backup copies of all important data stored on your device. The manufacturer's warranty does not cover loss of data resulting from user actions.

Attach a hand strap

- 1 Remove the back cover.
- 2 Slide a hand strap through the slot and hook it over the small projection.



- 3 Replace the back cover.



Getting started

Turn your device on and off

To turn on your device,

- 1 Press and hold [ⓘ].
- 2 If you turn on your device for the first time, follow the on-screen instructions to set up your device.

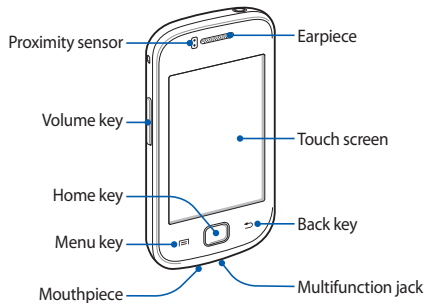
To turn off your device, press and hold [ⓘ] and select **Power off** → **OK**.

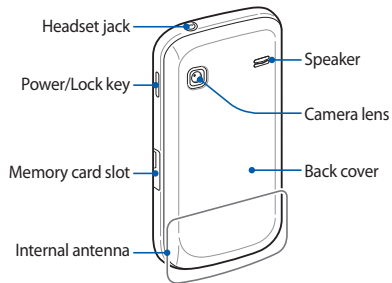


- Follow all posted warnings and directions from official personnel when in areas where the use of wireless devices is restricted, such as aeroplanes and hospitals.
- To use your device's non-network services only, switch to Flight mode. Press and hold [ⓘ] and select **Flight mode**.

Get to know your device

› Device layout





► Keys

Key		Function
	Power/ Lock	Turn on the device (press and hold); Access the quick menus (press and hold); Lock the touch screen.
	Menu	Open a list of options available on the current screen.
	Home	Return to the idle screen; Open the list of recent applications (press and hold).
	Back	Return to the previous screen.
	Volume	Adjust the device's volume.

Indicator icons



Icons shown on the display may vary depending on your region or service provider.

Icon	Definition
	No signal
	Signal strength
	GPRS network connected
	UMTS network connected
	Open WLANs available
	WLAN connected
	Bluetooth activated
	Bluetooth headset connected
	GPS activated

Icon	Definition
	Call in progress
	Call on hold
	Speakerphone activated
	Missed call
	Synchronised with the web
	Uploading data
	Downloading data
	Call diverting activated
	Connected to PC
	USB tethering activated
	Mobile AP activated

Icon	Definition
	No SIM or USIM card
	New text or multimedia message
	New email message
	New voice mail message
	Alarm activated
	Event notification
	Roaming (outside of normal service area)
	Silent mode activated
	Flight mode activated
	Vibration mode activated
	Music playback in progress

Icon	Definition
	Music playback paused
	FM radio turned on in the background
	Error occurred or caution required
	Battery power level
10:00	Current time

Use the touch screen

Your device's touch screen lets you easily select items or perform functions. Learn basic actions to use the touch screen.



- To avoid scratching the touch screen, do not use sharp tools.
- 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 come into contact with water. The touch screen may malfunction in humid conditions or when exposed to water.



- For optimal use of the touch screen, remove the screen protection film before using your device.
- Your touch screen has a layer that detects small electrical charges emitted by the human body. For best performance, tap the touch screen with your fingertip. The touch screen will not react to touches of sharp tools, such as a stylus or pen.

Control your touch screen with the following actions:

- Tap: Touch once with your finger to select or launch a menu, option, or application.
- Tap and hold: Tap an item and hold it for more than 2 seconds to open a pop-up option list.
- Drag: Tap and drag your finger up, down, left, or right to move to items on lists.
- Drag and drop: Tap and hold your finger on an item, and then drag your finger to move the item.
- Double-tap: Tap twice quickly with your finger to zoom in or out while viewing photos or web pages.



- Your device turns off the touch screen when you do not use the device for a specified period. To turn on the screen, press [⏻] or the Home key.
- You can adjust the backlight time. In Idle mode, open the application list and select **Settings** → **Display** → **Screen timeout**.

Lock or unlock the touch screen and keys

You can lock the touch screen and keys to prevent any unwanted device operations.

To lock, press [⏻]. To unlock, turn on the screen and drag  right until it reaches the dot.

Get to know the idle screen

When the device is in Idle mode, you will see the idle screen. From the idle screen, you can view your device's status and access applications.

The idle screen has multiple panels. Scroll left or right to a panel of the idle screen.

➤ Add items to the idle screen

You can customise the idle screen by adding shortcuts to applications or items in applications, widgets, or folders. To add items to the idle screen,

- 1 Press [≡] → **Add** or tap and hold the empty area on the idle screen.
- 2 Select the item category → an item:
 - **Widgets:** Add widgets. Widgets are small applications that provide convenient functions and information on your idle screen.
 - **Shortcuts:** Add shortcuts to items, such as applications, bookmarks, and contacts.
 - **Folders:** Create a new folder or add folders for your contacts.
 - **Wallpapers:** Set a background image.

› Move items on the idle screen

- 1 Tap and hold an item to move until the item appears grey.
- 2 Drag the item to the location you want.

› Remove items from the idle screen

- 1 Tap and hold an item to remove.
The trash bin appears at the bottom of the idle screen.
- 2 Drag the item to the trash bin.
- 3 When the item turns red, release the item.

› Use the shortcuts panel

In Idle mode or while using an application, tap the indicator icons area and drag your finger down to open the shortcuts panel. You can activate or deactivate wireless connection features and access a list of notifications, such as messages, calls, events or processing status. To hide the list, drag the bottom of the list up.

From the shortcuts panel, you can use the following options:

- **Wi-Fi:** Activate or deactivate the WLAN connection feature. ► p. 82
- **B/T:** Activate or deactivate the Bluetooth wireless connection feature. ► p. 80
- **GPS:** Activate or deactivate the GPS feature.
- **Sound/Vibration:** Activate or deactivate Vibration mode.
- **Auto rotation:** Activate or deactivate the auto rotation.



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

➤ Add or remove panels to the idle screen

You can add or remove panels of the idle screen to organise widgets according to your preferences and needs.

- 1 In Idle mode, press [] → **Edit**.
You can also place your two fingers on the screen and pinch to switch to Edit mode.
- 2 Add or remove panels by using the following features:
 - To remove a panel, tap and hold the thumbnail of a panel and drag it to the trash bin at the bottom of the screen.
 - To add a new panel, select .
 - To change the order of the panels, tap and hold the thumbnail of a panel and drag it to the location you want.
- 3 When you are finished, press [.

Access applications

To access your device's applications,

- 1 In Idle mode, select  to access the application list.
- 2 Scroll left or right to another application screen.
You can also select a dot on the top of the screen to move to the corresponding main menu screen directly.
- 3 Select an application.
 -  • When you use applications provided by Google, you must have a Google account. If you do not have a Google account, sign up for a Google account.
 - You can add a shortcut to an application by tapping and holding the application icon from the application list. You can move the icon to the location you want on the idle screen.

- 4 Press [

Your device has a built-in motion sensor that detects its orientation. If you rotate the device while using some features, the interface will automatically switch to landscape view. To set the interface to keep the orientation when you rotate the device, select **Settings** → **Display** → **Auto-rotate screen**.

› Organise applications

You can reorganise the applications in the application list by changing their order or grouping them into categories to suit your preferences and needs.

- 1 In the application list, press [Edit.
- 2 Tap and hold an application.

- 3 Drag the application icon to the location you want. You can move an application icon to another main menu screen.

- 4 Press [Save.

To change the order of the main menu screens,

- 1 In the application list, place your two fingers on the screen and pinch.
- 2 Tap and hold the thumbnail of a screen and drag it to the location you want.

› Access recent applications

- 1 Press and hold the Home key to open the list of applications you have accessed recently.
- 2 Select an application to access.

› Use the task manager

Your device is a multitasking device. It can run more than one application at the same time. However, multitasking may cause hang-ups, freezing, memory problems, or additional power consumption. To avoid these problems, end unnecessary programs using the task manager.

- 1 In Idle mode, open the application list and select **Task manager** → **Active applications**.

The list of all the applications currently running on your device appears.

- 2 To close an application, select **End**.
To close all active applications, select **End all**.

Customise your device

Get more from your device by customising it to match your preferences.

› Set the current time and date

- 1 In Idle mode, open the application list and select **Settings** → **Date and time**.

- 2 Set the time and date and change other options.

› Turn on or off the touch tone

In Idle mode, open the application list and select **Settings** → **Sound** → **Audible selection**.

› Adjust the volume of the ringtones

Press the Volume key up or down to adjust the ringtone volume.

› Switch to Silent mode

To mute or unmute your device, do one of the following:

- In Idle mode, open the application list and select  → **Keypad** and tap and hold **#**.
- Open the shortcuts panel from the top of the screen and select **Sound**.
- Press and hold [□] and select **Silent mode**.



You can set the device to alert you to various events in Silent mode. In Idle mode, open the application list and select **Settings** → **Sound** → **Vibrate** → **Always** or **Only in Silent mode**. When you switch to Silent mode,  will appear in place of .

› Change your ringtone

- 1 In Idle mode, open the application list and select **Settings** → **Sound** → **Phone ringtone**.
- 2 Select a ringtone from the list and select **OK**.

› Activate animation for switching windows

In Idle mode, open the application list and select **Settings** → **Display** → **Animation** → **Some animations** or **All animations**.

› Select a wallpaper for the idle screen

- 1 In Idle mode, press [□] → **Wallpaper** → an option.
- 2 Select an image.
- 3 Select **Save** or **Set wallpaper**.



Samsung is not responsible for any use of default images or wallpapers provided on your device.

› Adjust the brightness of the display

1 In Idle mode, open the application list and select **Settings** → **Display** → **Brightness**.

2 Drag the slider to adjust the level of brightness.

3 Select **OK**.



The brightness level of the display will affect how quickly the device consumes battery power.

› Set a screen lock

You can lock the touch screen with an unlock pattern or password to prevent unauthorised people from using the device without your permission.



- Once you set a screen lock, your device will require an unlock code each time you turn it on or unlock the touch screen.
- If you forget your PIN or password, bring your device to a Samsung Service Centre to reset it.
- Samsung is not responsible for any loss of security codes or private information or other damages caused by illegal software.

Set an unlock pattern

1 In Idle mode, open the application list and select **Settings** → **Location and security** → **Set screen lock** → **Pattern**.

2 See the on-screen instructions and example patterns and select **Next**.

3 Draw a pattern by dragging your finger to connect at least 4 dots.

4 Select **Continue**.

5 Draw a pattern again to confirm.

6 Select **Confirm**.

Set an unlock PIN code

1 In Idle mode, open the application list and select **Settings** → **Location and security** → **Set screen lock** → **PIN**.

2 Enter a new PIN (numeric) and select **Continue**.

3 Enter the PIN again and select **OK**.

Set an unlock password

1 In Idle mode, open the application list and select **Settings** → **Location and security** → **Set screen lock** → **Password**.

2 Enter a new password (alphanumeric) and select **Continue**.

3 Enter the password again and select **OK**.

▶ Lock your SIM or USIM card

You can lock your device by activating the PIN supplied with your SIM or USIM card.

1 In Idle mode, open the application list and select **Settings** → **Location and security** → **Set up SIM card lock** → **Lock SIM card**.

2 Enter your PIN and select **OK**.

Once the PIN lock is enabled, you must enter the PIN each time you turn on the device.



- If you enter an incorrect PIN too many times, your SIM or USIM card will be blocked. You must enter a PIN unlock key (PUK) to unblock the SIM or USIM card.
- If you block your SIM or USIM card by entering an incorrect PUK, bring the card to your service provider to unblock it.

Enter text

You can enter text by selecting characters on the virtual keypad or by inputting handwriting on the screen.



You cannot enter text in some languages. To enter text, you should change the writing language to one of the supported languages. ► p. 101

› Change the keyboard type

You can change the keyboard type. Tap and hold the text input field and select **Input method** → a keyboard type (Swype or Samsung keypad).

› Enter text using the Swype keyboard

- 1 Select the first character of a word and drag your finger to the second character without releasing the finger from the screen.

- 2 Continue until you have finished the word.



- 3 Release the finger on the last character.
- 4 When the word displays correctly, select  to insert a space. If the correct word does not display, select an alternative word from the list that appears.
- 5 Repeat steps 1-4 to complete your text. Tap and hold each key to enter additional characters.

You can also use the following keys:



Number	Function
1	Change case.
2	Switch between Symbol mode and ABC/Number mode.
3	Insert a space.
4	Delete characters.
5	Start a new line.

Number	Function
6	Enter text by voice.  This feature may be unavailable depending on the selected input language.



- To hide the Swype keyboard, press [↵].
- To view help information for using the Swype keyboard, tap and hold .

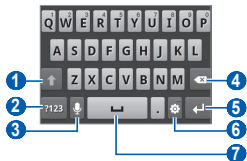
› Enter text using the Samsung keypad

1 Select  → **Portrait keypad types** and select a text input method.

You can select one of key input methods (QWERTY or traditional keypad) or handwriting input methods.

2 Enter text by selecting alphanumeric keys or writing on the screen.

You can also use the following keys:



Number	Function
1	Change case.
2	Switch between Number/Symbol mode and ABC mode.
3	Enter text by voice; This icon is available only when you activate the voice input feature for the Samsung keypad.  This feature may be unavailable depending on the selected input language.

Number	Function
4	Clear your input.
5	Start a new line.
6	Access the keypad settings; Change the keyboard type (tap and hold).
7	Insert a space; Insert a period (double-tap); Change the input language (scroll left or right).  Functions of this key may vary depending on your service provider.

› Copy and paste text

While you are entering text, you can use the copy and paste feature to use text in other applications.

- 1 Place the cursor on the text you want to copy.
- 2 Select .
- 3 Select  or .
- 4 Drag  or  to select the text you want.
- 5 Select  to copy, or  to cut the text onto the clipboard.
- 6 In another application, place the cursor where you want to paste the text.
- 7 Select  →  to insert the text from the clipboard into the text field.

Download applications from Android Market

Based on the Android platform, your device's functionality can be extended by installing additional applications. Android Market provides you an easy and quick way to shop for games and mobile applications.



- This feature may be unavailable depending on your region or service provider.
- Your device will save user files from downloaded applications to the internal memory.

› Install an application

- 1 In Idle mode, open the application list and select **Market**.
- 2 Select **Accept** when the terms and conditions appear.
- 3 Search for a file or application and download it.

› Uninstall an application

- 1 From the Android Market home screen, select **My apps**.
- 2 Select the item you want to delete.
- 3 Select **Uninstall** → **OK**.

Download files from the web

When you download files or web applications from the web, your device saves them in a memory card.

-  Files you download from the web can include viruses that will damage your device. To lessen your risk, only download files from sources you trust.
-  Some media files include Digital Rights Management to protect copyrights. This protection may prevent you from downloading, copying, modifying, or transferring some files.

To download files from the web,

- 1 In Idle mode, open the application list and select **Internet**.
- 2 Search for a file or application and download it.

To install applications downloaded from websites other than Android Market, you must select **Settings** → **Applications** → **Unknown sources** → **OK**.

Synchronise data

You can synchronise data with various web servers and back up or restore your data.

Once the synchronisation is completed, your device stays connected to the web. If any change is made on the web, the updated information will appear on your device and will automatically begin synchronisation, and vice versa.

-  This feature may be unavailable depending on your region or service provider.

› Set up a server account

- 1 In Idle mode, open the application list and select **Settings** → **Accounts and sync**.
- 2 Select **Add account** → an account type.
- 3 Follow the on-screen instructions to complete the account setup.
For online community services, such as Facebook or MySpace, enter your user name and password and select **Log in**.

› Activate automatic sync

- 1 In Idle mode, open the application list and select **Settings** → **Accounts and sync**.
- 2 Select **Auto-sync**.

- 3 Select an account.

- 4 Select the applications you want to synchronise.

To exclude applications from automatic synchronisation, clear the check boxes next to the applications you want.

› Synchronise data manually

- 1 In Idle mode, open the application list and select **Settings** → **Accounts and sync**.
- 2 Select an account.
- 3 Press [] → **Sync now**. Your device will start synchronising the data you set for synchronisation.

Communication

Calling

Learn to use calling functions, such as making and answering calls, using options available during a call or customising and using call-related features.

► Make and answer a call

You can use the buttons or the touch screen when you make, accept, end, or reject calls.



- When you turn on the proximity sensor, your device automatically turns off and locks the touch screen to prevent accidental inputs when you hold the device near your face. ► p. 97
- Static electricity discharged from your body or clothing may interfere with the proximity sensor during a call.

Make a call

- 1 In Idle mode, open the application list and select  → **Keypad**, and enter an area code and a phone number.
- 2 Select  to make a call.
- 3 To end the call, select **End call**.
 - Use the phonebook to save numbers you dial frequently. ► p. 62
 - To quickly access the call log to redial the numbers you dialled recently, select  → **Logs**.

Answer a call

- 1 When a call comes in, drag  right until it reaches the dot.
-  When the device is ringing, press the Volume key to mute the ringtone.
- 2 To end the call, select **End call**.

Reject a call

When a call comes in, drag  left until it reaches the dot. The caller will hear a busy tone.

Call an international number

- 1 In Idle mode, open the application list and select  → **Keypad**, and tap and hold **0** to insert the + character.
- 2 Enter the complete number you want to dial (country code, area code and phone number), and then select  to dial the number.

► Use a headset

By plugging a headset into the device, you can answer and control calls hands-free:

- To answer a call, press the headset button.
- To reject a call, press and hold the headset button.

- To place a call on hold or retrieve a held call during a call, press and hold the headset button.
- To end a call, press the headset button.

► Use options during a call

You can use the following options while a call is in progress:

- To adjust the voice volume, press the Volume key up or down.
- To place a call on hold, select **Hold**. To retrieve a held call, select **Unhold**.
- To dial a second call, select **Add call** and then dial a new number.
- To answer a second call, drag  right until it reaches the dot when a call waiting tone sounds. The device asks whether to end or hold the first call. You must subscribe to the call waiting service to use this feature.

- To open the dialling screen, select **Dialpad**.
- To listen and talk to the other party via a Bluetooth headset, select **Headset**.
- To turn off the microphone so that the other party cannot hear you, select **Mute**.
- To activate the speakerphone feature, select **Speaker**.



In noisy environments, you may have difficulty hearing some calls while using the speakerphone feature. For better audio performance, use the normal phone mode.

- To switch between the two calls, select **Swap**.
- To make a multiparty call (conference call), make or answer a second call when connected to the second party, select **Merge calls**. You must subscribe to the multiparty call service to use this feature.

› View and dial missed calls

Your device will display calls you have missed. To dial the number of a missed call, open the shortcuts panel and select the missed call notification.

› Use additional features

You can use various other call-related features, such as Fixed Dialling Number (FDN) mode or call diverting.

Use Fixed Dialling Number (FDN) mode

In FDN mode, your device will restrict outgoing calls, except for the numbers stored in the FDN list. To activate FDN mode,

- 1 In Idle mode, open the application list and select **Settings** → **Call settings** → **Fixed Dialling Numbers** → **Enable FDN**.

- 2 Enter the PIN2 supplied with your SIM or USIM card and select **OK**.
- 3 Select **FDN list** and add contacts to be used in FDN mode.

Set call forwarding

Call diverting is a network feature to send incoming calls to another number that you specify. You can set this feature separately for several conditions when you are not able to answer calls, such as when you are already on the phone or when you are outside of the service area.

- 1 In Idle mode, open the application list and select **Settings** → **Call settings** → **Call forwarding**.
- 2 Select a condition.
- 3 Enter a number to which calls will be forwarded and select **Enable**.
Your setting will be sent to the network.

Set call waiting

Call waiting is a network feature to alert you of an incoming call while you are on a previous call.

In Idle mode, open the application list and select **Settings** → **Call settings** → **Additional settings** → **Call waiting**.
Your setting will be sent to the network.

View call logs

You can view logs of your calls filtered by their types.

- 1 In Idle mode, open the application list and select  → **Logs**.
 - 2 Press [] → **View by** → an option to sort the call logs.
-  From the call logs, you can make a call or send a message directly to a contact by flicking the contact to the left or right.

3 Select a log to view its details.



From the detail view, you can dial the number, send a message to the number or add the number to the phonebook.

Messaging

Learn to create and send text (SMS) or multimedia (MMS) messages, and view or manage messages you have sent or received.



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

➤ Send a text message

1 In Idle mode, open the application list and select  → **New message**.

2 Select **Contacts**.

You can enter a number manually or select one from the logs or contact groups by selecting another option.

3 Select contacts and select **Add**.

4 Select **Tap to compose** and enter your message text.
To insert emoticons, press [≡] → **Insert smiley**.

5 Select **Send** to send the message.

➤ Send a multimedia message

1 In Idle mode, open the application list and select  → **New message**.

2 Select **Contacts**.

You can enter a number manually or select one from the logs or contact groups by selecting another option.
When you enter an email address, the device will convert the message to a multimedia message.

- 3 Select contacts and select **Add**.
- 4 Select **Tap to compose** and enter your message text.
To insert emoticons, press [≡] → **Insert smiley**.
- 5 Select  → an option and add an item.
You can select a file from the file list or create a new photo, video, or sound.
- 6 Press [≡] → **Add subject** and add a subject for the message.
- 7 Select **Send** to send the message.

▶ View a text or multimedia message

- 1 In Idle mode, open the application list and select .
Your messages are grouped into message threads by contact, like a messenger.

- 2 Select a contact.
- 3 For a multimedia message, select a message to view the details.

▶ Listen to voice mail messages

If you have set missed calls to be diverted to the voice mail server, callers may leave voice messages when you do not answer incoming calls. To access your voice mail inbox and listen to voice mail messages,

- 1 In Idle mode, open the application list and select  → **Keypad** and then tap and hold **1**.
 - 2 Follow the instructions from the voice mail server.
-  You must save the voice mail server number before accessing the server. Your service provider can give you the number.

Google Mail

You can retrieve new email messages from Google Mail™ to your Inbox. When you access this application, the Inbox screen appears. The total number of unread messages displays in the title bar and unread messages display in bold.



- This feature may be unavailable depending on your region or service provider.
- This Google Mail menu may be labelled differently depending on your service provider.

➤ Send an email message

- 1 In Idle mode, open the application list and select **Google Mail**.
- 2 If you are launching this application for the first time, select **OK**.
- 3 Press [≡] → **Compose**.

- 4 Enter a name or address in the recipient field.
- 5 Enter a subject and message.
- 6 To attach an image file, press [≡] → **Attach** → a file.
- 7 Select  to send the message.

➤ View email messages

- 1 In Idle mode, open the application list and select **Google Mail**.
- 2 Select an email message.

From the message view, use the following options:

- To reply to the message, select .
- To reply to the message including all recipients, select  → **Reply all**.
- To forward the message to other people, select  → **Forward**.

- To add a star to the message, select .
- To view an attachment, select **Preview**. To save it to your memory card, select **Download**.
- To archive the message, select **Archive**.
- To delete the message, select **Delete**.
- To move to the previous or next message, select  or .

➤ Organise email by labels

You can organise your email by labelling your messages or adding stars to mark important messages. You can sort messages by label filter.

Add a label to a message

- 1 From the Inbox screen, tap and hold a message.
- 2 Select **Change labels**.
- 3 Select a label to add and select **OK**.

Add a star to a message

- 1 From the Inbox screen, tap and hold a message.
- 2 Select **Add star**. The star icon next to the message is activated.

Filter messages

- 1 From the Inbox screen, press [] → **Go to labels**.
- 2 Select the label of the messages you want to view.

Email

Learn to send or view email messages via your personal or company email account.

➤ Set up an email account

- 1 In Idle mode, open the application list and select **Email**.
- 2 Enter your email address and password.

- 3 Select **Next** (for general email accounts) or **Manual setup** (for other company email accounts).
- 4 Follow the on-screen instructions.

When you are finished setting up the email account, the email messages are downloaded to your device. If you have created more than two accounts, you can switch between email accounts; Press [≡] → **Accounts** and select one you want to retrieve messages from.

► Send an email message

- 1 In Idle mode, open the application list and select **Email** → an email account.
- 2 Press [≡] → **Compose**.
- 3 Select **Contacts**.
You can enter an email address manually or select one from the logs or contact groups by selecting another option.

- 4 Select contacts and select **Add**.
- 5 Select the Cc/Bcc field and add more recipients.
- 6 Select the subject field and enter a subject.
- 7 Select the text input field and enter your email text.
- 8 Select **Attach** and attach a file.
You can select a file from the file list or create a new photo, video, or sound.
- 9 Select **Send** to send the message.



If you are offline or outside your service area, the message will be held in the message thread list until you are online and in your service area.

► View an email message

When you open an email account, you can view previously retrieved emails offline or connect to the email server to view new messages. After retrieving email messages, you can view them offline.

- 1 In Idle mode, open the application list and select **Email** → an email account.
- 2 Press [≡] → **Refresh** to update the message list.
- 3 Select an email message.

From the message view, use the following options:

- To reply to the message, press [≡] → **Reply**.
- To forward the message to other people, press [≡] → **Forward**.
- To delete the message, press [≡] → **Delete**.
- To move the message to another folder, press [≡] → **Move to folder**.
- To load images from the message, press [≡] → **Show pictures**.
- To view an attachment, select the attachment item. To save it to your memory card, select .

Talk

Learn to chat with friends and family via Google Talk™.



This feature may be unavailable depending on your region or service provider.

► Add friends to your friend list

- 1 In Idle mode, open the application list and select **Talk**. The friend list shows all of your Google Talk contacts at a glance.
- 2 Press [≡] → **Add friend**.
- 3 Enter an email address of the friend and select **Send invitation**.

When your friend accepts the invitation, the friend is added to your friend list.

▶ Start a chat

- 1 In Idle mode, open the application list and select **Talk**.
- 2 Select a friend from the friend list. The chat screen opens.
- 3 Enter your message and select **Send**.
To insert emoticons, press [≡] → **More** → **Insert smiley**.
- 4 To switch between active chats, press [≡] → **Switch chats**.
- 5 To end the chat, press [≡] → **End chat**.

Social Hub

Learn to access Social Hub™, the integrated communication application for Social Network Service (SNS), email, messages, instant messages (IM), contacts or calendar information. Visit socialhub.samsungapps.com for more details.

- 1 In Idle mode, open the application list and select **Social Hub**.
- 2 Check and use contents delivered from Social Hub.

Entertainment

Camera

Learn how to capture and view photos and videos. You can take photos at resolutions up to 2048 x 1536 pixels (3.2 megapixels) and videos at resolutions up to 320 x 240 pixels.

To use the camera, you must first insert a memory card.



- The camera interface appears only in the landscape orientation.
- Tap the screen to hide or display icons in the viewfinder.
- The camera automatically turns off when you do not use it for a specified period.
- The memory capacity may differ depending on the shooting scene or shooting conditions.

► Capture a photo

- 1 In Idle mode, open the application list and select **Camera**.
- 2 Rotate the device anti-clockwise to landscape view.
- 3 Aim the lens at the subject and make any necessary adjustments.



Number	Function
1	Check the camera status and settings.  : Resolution  : Exposure metre type  : Number of photos you can take (according to available memory)  : Storage location
2	Change the shooting mode.
3	Change the scene mode.
4	Adjust the brightness.
5	Change the camera settings.
6	Switch to the camcorder.
7	Capture a photo.
8	View the photo you captured last.

4 Press the Volume key to zoom in or out.



The zoom function may be unavailable when shooting in the highest resolution.

5 Select  to take a photo.

The photo is saved automatically.

After taking photos, select  to view the taken photos.

- To view more photos, scroll left or right.
- To zoom in or out, tap the screen and select  or . You can also tap the screen with two fingers and spread them apart (move your fingers closer together to zoom out).
- To send a photo to others, select **Share**.
- To set a photo as wallpaper or a caller ID image for a contact, select **Set as**.
- To delete a photo, select **Delete**.

» Capture a photo by using preset options for various scenes

Your camera provides you with predefined settings for various scenes. You can simply select the proper mode for your shooting condition and subjects.

For example, when you take photos at night, select the night mode that uses an extended exposure.

- 1 In Idle mode, open the application list and select **Camera**.
- 2 Rotate the device anti-clockwise to landscape view.
- 3 Select  → a scene.
- 4 Make any necessary adjustments.
- 5 Select  to take a photo.

» Capture a photo in Smile shot mode

Your camera can recognise people's faces and help you take photos of their smiling faces.

- 1 In Idle mode, open the application list and select **Camera**.
- 2 Rotate the device anti-clockwise to landscape view.
- 3 Select  → **Smile shot**.
- 4 Make any necessary adjustments.
- 5 Select .
- 6 Aim the camera lens at your subject.
Your device recognises people in an image and detects their smiles. When the subject smiles, the device automatically takes a photo.

» Capture a series of photos

You can easily take a series of photos of moving subjects. This is useful when you are photographing children at play or a sporting event.

- 1 In Idle mode, open the application list and select **Camera**.
- 2 Rotate the device anti-clockwise to landscape view.
- 3 Select  → **Continuous**.
- 4 Make any necessary adjustments.
- 5 Tap and hold . The camera will continue to take photos until you release the key.

» Capture a panoramic photo

You can take wide panoramic photos using Panorama shooting mode. This mode is convenient for photographing landscapes.

- 1 In Idle mode, open the application list and select **Camera**.
- 2 Rotate the device anti-clockwise to landscape view.
- 3 Select  → **Panorama**.
- 4 Make any necessary adjustments.
- 5 Select  to take the first photo.
- 6 Slowly move the device in any direction and align the green frame with the viewfinder.
When you have aligned the green frame and viewfinder, the camera will automatically take the next photo.
- 7 Repeat step 6 to complete the panoramic photo.

► Customise camera settings

Before taking a photo, select  →  to access the following options:

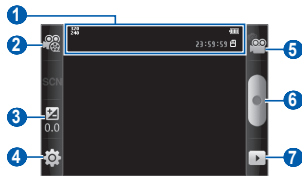
Option	Function
Focus mode	Take close-up photos or set the camera to focus on the subject.
Timer	Select the length of the delay before the camera takes a photo.
Resolution	Change the resolution option.
White balance	Adjust the colour balance according to lighting conditions.
Effects	Apply a special effect, such as sepia or black and white tones.
Metering	Select a type of exposure metre.
Image quality	Set the quality level for your photos.
Adjust	Adjust contrast, saturation, and sharpness.

Before taking a photo, select  →  to access the following settings:

Setting	Function
Guidelines	Display the guidelines on the preview screen.
Review	Set the camera to display the taken image.
GPS	Set the camera to include location information for your photos.  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.
Shutter sound	Set the camera shutter to make a sound when capturing a photo.
Reset	Reset menus and shooting options.

Record a video

- 1 In Idle mode, open the application list and select **Camera**.
- 2 Rotate the device anti-clockwise to landscape view.
- 3 Select  to switch to the camcorder.
- 4 Aim the lens at the subject and make any necessary adjustments.



Number	Function
1	Check the camcorder status and settings. •  : Resolution •  : Length of video that can be recorded (according to available memory) •  : Storage location
2	Change the recording mode (for attaching to a multimedia message or for saving normally).
3	Adjust the brightness.
4	Change the camcorder settings.
5	Switch to the camera.
6	Record a video.
7	View the video you recorded last.

5 Press the Volume key to zoom in or out.

 The zoom function may be unavailable when recording in the highest resolution.

6 Select  to start recording.

7 Select  to stop recording.

The video is saved automatically.

 The camera may not be able to properly record videos to a memory card with a slow transfer speed.

After recording videos, select  to view the recorded videos.

- To view more videos, scroll left or right.
- To send a video to others, select **Share**.
- To play a video, select **Play**.
- To delete a video, select **Delete**.

► Customise camcorder settings

Before recording a video, select  →  to access the following options:

Option	Function
Timer	Select the length of the delay before the camera starts recording a video.
Resolution	Change the resolution option.
White balance	Adjust the colour balance according to lighting conditions.
Effects	Apply a special effect, such as sepia or black and white tones.
Video quality	Set the quality level for your videos.
Adjust	Adjust contrast, saturation, and sharpness.

Before recording a video, select  →  to access the following settings:

Setting	Function
Guidelines	Display the guidelines on the preview screen.
Audio recording	Turn the audio on or off.
Review	Set the camera to display the recorded video.
Reset	Reset menus and shooting options.

Gallery

Learn to view photos and play videos saved on your memory card.

▶ Supported file formats

Type	Format
Image	Extension: gif, jpg, png, bmp, wbmp
Video	• Extension: 3gp, mp4 • Codec: MPEG4, H.263, H.264



- Some file formats are not supported depending on the software of the device.
- If the file size exceeds the available memory, an error can occur when you open files.

› View a photo

- 1 In Idle mode, open the application list and select **Gallery**.
- 2 Select a folder.
- 3 To change the view mode, select  or  at the top right of the screen.
- 4 Select a photo (with no icon) to view.

While viewing a photo, use the following options:

- To view more photos, scroll left or right.
- To zoom in or out, select  or . You can also tap the screen with two fingers and spread them apart (move your fingers closer together to zoom out).
- To start a slideshow in the selected folder, select **Slideshow**. Tap the screen to stop the slideshow.
- To use additional features using the photo, such as sharing, deleting, and editing options, select **Menu**.

› Play a video

- 1 In Idle mode, open the application list and select **Gallery**.
- 2 Select a video (with the  icon) to play.
- 3 Rotate the device anti-clockwise to landscape view.
- 4 Control playback with the virtual keys.

› Share images or videos

- 1 In Idle mode, open the application list and select **Gallery**.
- 2 Select a folder.
- 3 Press [] and select image or video files.
- 4 Select **Share** → a sharing option.

Music

Learn to listen to your favourite music while on the go with the music player. The music player supports the following file formats: mp3, mp4 (audio only), m4a, 3gp, 3ga, ogg, aac.

To use the music player, you must first insert a memory card.



- You can also play music files in the following formats if you open them from **My files**, multimedia messages, or on the web browser: mid, xmf, rtttl, imy, rtx, ota, amr, wav, mxmf.
- Some file formats are not supported depending on the software of the device.
- If the file size exceeds the available memory, an error can occur when you open files.

➤ Add music files to your memory card

Start by transferring files to your memory card:

- Download from the wireless web. ► p. 69
- Download from a PC with Samsung Kies. ► p. 86
- Receive via Bluetooth. ► p. 81
- Copy to your memory card. ► p. 87

➤ Play music

After transferring music files to your device or memory card,

- 1 In Idle mode, open the application list and select **Music**.
- 2 Select a music category → a music file.

3 Control playback with the following keys:



Number	Function
1	Activate the 5.1 channel surround sound system when a headset is connected.
2 ¹	Move to a point of the file by dragging the bar.

Number	Function
3	Restart playback or skip backward; Scan backward in a file (tap and hold).
4	Pause playback; Select ► to resume playback.
5	Change the repeat mode (off, repeating one file, or repeating all files).
6 ¹	Activate Shuffle mode.
7	Skip forward; Scan forward in a file (tap and hold).
8	Open the playlist.

1. These icons are shown when you tap the player screen.



- You can control playback with a headset: Press the headset button to play or pause playback. You can also press and hold the headset button to launch the music player.
- SRS CS Headphone™ delivers a 5.1 surround sound experience over standard headphones or earbuds when listening to multichannel content, such as DVD movies.
- WOW HD™ significantly improves the playback quality of audio, delivering a dynamic 3D entertainment experience with deep, rich bass and high frequency clarity for crisp detail.

► Create a playlist

- 1 In Idle mode, open the application list and select **Music**.
- 2 Select a category → a music file.

- 3 Press [≡] → **Add to playlist** → **New**.
- 4 Enter a title for your new playlist and select **Save**.
- 5 To add more music files to the playlist, play a file and press [≡] → **Add to playlist** → the new playlist.

► Use the party shuffle feature

When you turn on the party shuffle feature, your device selects and plays music files randomly.

- 1 In Idle mode, open the application list and select **Music**.
- 2 Press [≡] → **Party shuffle**.
- 3 To turn off the party shuffle feature, press [≡] → **Party shuffle off**.

› Customise music player settings

- 1 In Idle mode, open the application list and select **Music**.
- 2 Select a category → a music file.
- 3 Press [≡] → **Settings**.
- 4 Adjust the following settings to customise your music player:

Option	Function
5.1 channel	Set whether or not to activate the virtual 5.1 channel surround sound system when a headset is connected.
Equaliser	Select a default equaliser type.

FM radio

Learn to listen to music and news on the FM radio. To listen to the FM radio, you must connect a headset, which serves as the radio antenna.

› Listen to the FM radio

- 1 Plug a headset into the device.
- 2 In Idle mode, open the application list and select **FM radio**.
The FM radio scans and saves available stations automatically.



The first time you turn on the FM radio, it will start automatic tuning.

3 Control the FM radio with the following keys:



Number	Function
1	Turn the FM radio off or on.
2	Fine-tune the frequency.
3	Search for an available radio station.
4	Add the current radio station to the favourites list.

Number	Function
5	Adjust the volume.

► Save a radio station automatically

- 1 Plug a headset into the device.
- 2 In Idle mode, open the application list and select **FM radio**.
- 3 Press [] → **Scan** → a scanning option.
The FM radio scans and saves available stations automatically.

► Add a radio station to the favourites list

- 1 Plug a headset into the device.
- 2 In Idle mode, open the application list and select **FM radio**.

3 Scroll to the radio station you want.

4 Select **+** to add to the favourites list.

 You can add a name for a radio station or remove a radio station; Tap and hold a radio station on the favourites list and select **Remove** or **Rename**.

► Customise FM radio settings

1 In Idle mode, open the application list and select **FM radio**.

2 Press [≡] → **Settings**.

3 Adjust the following settings to customise your FM radio:

Option	Function
Region	Select your region.

Option	Function
Background playing	Set whether or not to run the FM radio in the background while using other applications. If this feature is on, you can control the FM radio from the shortcuts panel.
Show station ID	Set whether or not to show the station ID on the FM radio screen; Station IDs are available only from radio stations that provide this information.
Alternative frequency	Set whether or not the FM radio attempts to retune a radio station when the current signal is weak.
FM auto off	Set the FM radio to automatically turn off after a specified length of time.

Personal information

Contacts

Learn to create and manage a list of your personal or business contacts. You can save names, mobile phone numbers, home phone numbers, email addresses, birthdays and more for your contacts.

› Create a contact

1 In Idle mode, open the application list and select .

2 Select .

3 Select a memory location.

If you have more than one account, select an account to which you want to add the contact.

4 Enter contact information.

5 Select **Save** to add the contact to memory.

You can also create a contact from the dialling screen.

1 In Idle mode, open the application list and select  → **Keypad**.

2 Enter a phone number.

3 Select **Add to Contacts** → .

4 Select a memory location.

If you have more than one account, select an account to which you want to add the contact.

5 Enter contact information.

6 Select **Save** to add the contact to memory.

› Find a contact

- 1 In Idle mode, open the application list and select .
- 2 Scroll up or down on the contact list.
- 3 Select a contact's name.

Once you find a contact, you can:

- call the contact by selecting a phone number.
- send a message by selecting **Message**.
- send an email message by selecting an email address.
- edit the contact information by pressing [≡] → **Edit**.

› Set a speed dial number

- 1 In Idle mode, open the application list and select .
- 2 Press [≡] → **More** → **Speed dial**.

- 3 Select a location number → a contact.



You can quickly dial this number by touching and holding the location number from the dialling screen.

› Create your namecard

- 1 In Idle mode, open the application list and select .
- 2 Press [≡] → **My profile**.
- 3 Enter your own personal details.
- 4 Select **Save**.



You can send your namecard by attaching it to a message or email or transferring it via the Bluetooth wireless feature.

› Retrieve contacts from your community accounts

You can view the list of community website accounts and select an account to add a contact from the website to your phone contacts.

- 1 In Idle mode, open the application list and select .
- 2 Press [≡] → **Get friends**.
- 3 Select an account.

› Create a group of contacts

By creating groups of contacts, you can manage multiple contacts and send messages or email to an entire group. Start by creating a group.

- 1 In Idle mode, open the application list and select  → **Groups**.
- 2 Press [≡] → **Create**.

- 3 Enter a name and select a ringtone for the group.
- 4 Select **Save**.

› Copy contacts

To copy contacts from the SIM or USIM card to your device,

- 1 In Idle mode, open the application list and select .
- 2 Press [≡] → **Import/Export** → **Import from SIM card**.
- 3 Select contacts to copy and select **Import**.

To copy contacts from your device to the SIM or USIM card,

- 1 In Idle mode, open the application list and select .
- 2 Press [≡] → **Import/Export** → **Export to SIM card**.
- 3 Select contacts to copy and select **Export** → **Yes**.

➤ Import or export contacts

To import contact files (in vcf format) from a memory card to your device,

- 1 In Idle mode, open the application list and select .
- 2 Press [] → **Import/Export** → **Import from SD card**.
- 3 Select a memory location.
If you have more than one account, select an account to which you want to add the contact.
- 4 Select an option for importing a single contact file, multiple contact files, or all contact files, and select **OK**.
- 5 Select contact files to import and select **OK**.

To export contacts from your device to a memory card,

- 1 In Idle mode, open the application list and select .
- 2 Press [] → **Import/Export** → **Export to SD card**.
- 3 Select **Yes** to confirm.

➤ View the communication log

You can view the communication log of calls, messages, email or SNS threads.

- 1 In Idle mode, open the application list and select  → **History**.
- 2 Select an item you want to view.

› View social network activities

You can view the recent activities of contacts in social network services, such as Facebook, MySpace, and Twitter.

- 1 In Idle mode, open the application list and select  → **Activities**.
- 2 Select an item you want to view.

Calendar

Learn to create and manage daily, weekly or monthly events, and set alarms to remind yourself of important events.

› Create an event

- 1 In Idle mode, open the application list and select **Calendar**.
- 2 Press [≡] → **More** → **Create**.

- 3 Enter the details of the event as required.
- 4 Select **Done**.

› View events

To change the calendar view,

- 1 In Idle mode, open the application list and select **Calendar**.
- 2 Press [≡] and select **Day**, **Week**, or **Month**.

To view events of a specific date,

- 1 In Idle mode, open the application list and select **Calendar**.
- 2 Select a date on the calendar. In month view, days with scheduled events are indicated by a blue bar.
To select today's date, press [≡] → **Today**.
- 3 Select an event to view its details.

› Stop an event alarm

If you set an alarm for a calendar event, the event alarm icon will appear at the specified time.

- 1 Open the shortcuts panel from the top of the screen.
- 2 Select a reminder to view more details about the event.
- 3 To snooze or dismiss the reminder, select **Snooze all** or **Dismiss all**.

Memo

Learn to record important information to save and view at a later date.

› Create a memo

- 1 In Idle mode, open the application list and select **Memo**.

- 2 Select **Create memo** or press [≡] → **Create**.
- 3 Enter your memo text.
- 4 Press [↵] to hide the keypad.
- 5 Select a colour to change a background colour.
- 6 Select **Save**.

› View memos

- 1 In Idle mode, open the application list and select **Memo**.
 - 2 Select a memo to view its details.
 - To edit the memo, select .
 - To delete the memo, select  → **OK**.
-  You can send the memo to others by tapping and holding the memo and selecting **Send via** → an option.

Voice recorder

Learn to operate your device's voice recorder.

To use the voice recorder, you must first insert a memory card.

► Record a voice memo

- 1 In Idle mode, open the application list and select **Voice recorder**.
- 2 Select **Record** to start recording.
- 3 Speak into the microphone.
- 4 When you are finished recording a memo, select **Stop**.
Your memo is saved automatically.
- 5 To record more voice memos, select **Record** from the bottom of the screen.

► Play a voice memo

- 1 In Idle mode, open the application list and select **Voice recorder**.
 - 2 Select **List**.
 - 3 Select a voice memo to play.
-  You can send the voice memo to others by pressing [≡] → **Share** → an option.

Web

Web services require a data connection. Contact your operator to choose the best data plan.

Internet

Learn to access and bookmark your favourite web pages.



- You may incur additional charges for accessing the web and downloading media. For details, contact your service provider.
- The web browser menu may be labelled differently depending on your service provider.
- Available icons may vary depending on your region or service provider.

› Browse web pages

- 1 In Idle mode, open the application list and select **Internet** to launch a specified homepage.
To access a specific web page, select the URL input field, enter the web address of the web page, and select →.
- 2 Navigate web pages with the following keys:



The screen may differ depending on your region or service provider.

Number	Function
1	Enter the web address of a web page to access.
2	Open a list of saved bookmarks, frequently visited pages and recent internet history.

While browsing the web page, use the following options:

- To zoom in or out, double-tap the screen. You can also use the two finger zoom; Place your two fingers on the screen and slowly pinch or spread apart.
- To open a new window, press [≡] → **New window**.
- To view the currently active windows, press [≡] → **Windows**. You can open multiple pages and switch back and forth between them.

- To reload the current web page, press [↺] → **Refresh**.
- To go to the next page in history, press [≡] → **Forward**.
- To bookmark the current web page, press [≡] → **Add bookmark**.
- To add a shortcut to the current web page to the idle screen, press [≡] → **More** → **Add shortcut to Home**.
- To search for text on the web page, press [≡] → **More** → **Find on page**.
- To view web page details, press [≡] → **More** → **Page info**.
- To send the web address of the web page to others, press [≡] → **More** → **Share page**.
- To view the download history, press [≡] → **More** → **Downloads**.
- To customise browser settings, press [≡] → **More** → **Settings**.

➤ Search for information by voice



This feature may be unavailable depending on your region or service provider.

1 In Idle mode, open the application list and select **Internet**.

2 Select the address field.

3 Select  and say a keyword into your device's microphone.

The device searches for information and web pages related with the keyword.

➤ Bookmark your favourite web pages

If you know the web address of a web page, you can manually add a bookmark. To add a bookmark,

1 In Idle mode, open the application list and select **Internet**.

2 Select  → **Bookmarks**.

3 Select **Add** or press [] → **Bookmark last-viewed page**.

4 Enter a page title and a web address.

5 Select **OK**.

From the bookmark list, tap and hold a bookmark and use the following options:

- To open the web page in the current window, select **Open**.
- To open the web page in a new window, select **Open in new window**.
- To edit the bookmark details, select **Edit bookmark**.
- To add the bookmark shortcut to the idle screen, select **Add shortcut to Home**.
- To send the web address of the web page to others, select **Share link**.

- To copy the web address of the web page, select **Copy link URL**.
- To delete the bookmark, select **Delete bookmark**.
- To use the web page as your homepage of the browser, select **Set as homepage**.

➤ Access the frequently visited pages or the recent history

1 In Idle mode, open the application list and select **Internet**.

2 Select  → **Most visited** or **History**.

3 Select a web page to access.



You can add a web page to the bookmark list by selecting the star icon on the right.

Maps

Learn to use Google Maps™ to find your location, search the map for streets, cities, or countries, and get directions.

To receive better GPS signals, avoid using your device in the following conditions:

- between buildings, in tunnels or underground passages, or inside buildings
- in poor weather
- around high voltage or electromagnetic fields



Do not touch the internal antenna area or cover this area with your hands or other objects while using the GPS functions.



This feature may be unavailable depending on your region or service provider.

▶ Activate location services to use with Google Maps

You must activate location services to find your location and search the map.

- 1 In Idle mode, open the application list and select **Settings** → **Location and security**.
- 2 Adjust the following settings to activate location services:

Option	Function
Use wireless networks	Set to use WLAN and/or mobile networks for finding your location.
Use GPS satellites	Set to use the GPS satellite for finding your location.

▶ Search for a specific location

- 1 In Idle mode, open the application list and select **Maps**.
 - 2 If you are launching this application for the first time, select **OK** to confirm.
The map will display your current location.
 - 3 Press [] → **Search** or select .
 - 4 Enter a keyword for the location and select .
 - To search for a location by voice, select .
 - To view a list of all results for your search, select .
 - To zoom in or out, select or .
 - To search for a place around you, select .
 - To add layers to the map, select .
 - To view your current location, select .
- To add a star to the location, select the balloon of the location name → .

► Get directions to a specific destination

- 1 In Idle mode, open the application list and select **Maps**.
- 2 Press [] → **Directions**.
- 3 Enter the addresses of the starting location and the ending location.
To enter an address from your contact list or point the location on the map, select  → **Contacts** or **Point on map**.
- 4 Select a travel method (car, bus, or walk) and select **Go**.
- 5 Select a travel route to view details of your trip (if necessary).
- 6 Select .
The route is indicated on the map. To view only the single part of the route, select  or .
- 7 When you are finished, press [] → **Clear Map**.

► Share your location via Google Latitude

Learn to share your location with your friends and view friends' locations via Google Latitude™.

- 1 In Idle mode, open the application list and select **Latitude**.
The device automatically joins Latitude.
- 2 Press [] → **Add friends** → **Select from Contacts** or **Add via email address**.
- 3 Select a friend you want to add, or enter an email address and select **Add friends**.
- 4 Select **Yes**.
When your friend accepts your invitation, you can share locations.
- 5 Press [] → **See map**.
Your friends' locations are marked with their photos on the map.

» Search for a place around you



This feature may be unavailable depending on your region or service provider.

- 1 In Idle mode, open the application list and select **Places**.
- 2 Select a category.
Your device searches for places around your current location that are related to the category.
- 3 Select a place name to view its details.
- 4 To view the place on the map, select .
To view the route to the place, select .
To view the phone number of the place, select .

» Navigate to your destination

Learn to use the GPS navigation system to find and show your destination with voice guidance.



This feature may be unavailable depending on your region or service provider.

- 1 In Idle mode, open the application list and select **Navigation**.
- 2 If you are launching this application for the first time, select **Accept**.
- 3 Enter your destination by using one of the following methods:
 - **Speak Destination:** Speak your destination such as "Navigate to *destination*."
 - **Type Destination:** Enter your destination with the virtual keypad.

- **Contacts:** Select your destination from addresses of your contacts.
 - **Starred Places:** Select your destination from the list of your starred places.
- 4 Select **Install** to use voice-guided navigation (if necessary).
 - 5 Follow the route indicated on the map and the voice guide.
To view directions in text form, select .
 - 6 To end the navigation, press [] → **Exit Navigation**.

Google Search

You can search for applications in your device and specific data on the web.

- 1 In Idle mode, open the application list and select **Google Search**.

- 2 Enter a letter or a word of the data to search for.
To search for data by voice, select  and say a keyword into your device's microphone.
- 3 Select the item's name you want to access.

YouTube

Learn to view and upload videos via YouTube.



This feature may be unavailable depending on your region or service provider.

› Watch videos

- 1 In Idle mode, open the application list and select **YouTube**.
- 2 If you are launching this application for the first time, select **Accept** to confirm.
- 3 Select a video from the list.

- 4 Rotate the device anti-clockwise to landscape view.
- 5 Control playback with the following keys:



Number	Function
1	Move to a point of the file by dragging the bar.
2	Change the quality of the display.

› Upload videos

- 1 In Idle mode, open the application list and select **YouTube**.
- 2 Press [≡] → **Upload** and select a video. Skip to 8.
If you want to upload new videos, select to turn on the camera.
- 3 Rotate the device anti-clockwise to landscape view.
- 4 Aim the lens at the subject and make any adjustments.
- 5 Select to start recording.
- 6 Select to stop recording.
- 7 Select **Save** to upload the video that you have recorded.
- 8 Enter your user name and password and select **Sign in**.
- 9 Enter details of the upload and select **Upload**.

News & Weather

Learn to view the weather information and read top news and other news articles.

› View the weather information

- 1 In Idle mode, open the application list and select **News & Weather**.
- 2 Select **Weather** at the top of the screen.
Your device searches for your current location and displays the weather information.



You can change the location to view the weather information in another region. Press [≡] → **Settings** → **Weather settings** and clear the check box next to **Use My Location**. Then select a location in **Set location**.

› Read news articles

- 1 In Idle mode, open the application list and select **News & Weather**.
- 2 Select a news topic at the top of the screen.
- 3 Select an article to open.



To add news topics, press [≡] → **Settings** → **News settings** → **Select news topics**.

Samsung Apps

Samsung Apps allows you to simply and easily download an abundance of applications directly to your device. Featuring a wealth of games, news, reference, social networking, navigation, health related applications and more, Samsung Apps gives you instant access to a huge choice of mobile experience.

Your device gets smarter with fully optimised applications from Samsung Apps. Explore amazing applications and make your mobile life even better.



- The feature may be unavailable depending on your region or service provider.
- For details, please visit www.samsungapps.com.

- 1 In Idle mode, open the application list and select **Samsung Apps**.
- 2 Search for and download applications as desired.

Market

You can download games, ringtones, or other applications from the Android Market.



This feature may be unavailable depending on your region or service provider.

- 1 In Idle mode, open the application list and select **Market**.
- 2 Search for a file and download it to the device. ► p. 33

Connectivity

Bluetooth

Bluetooth is a short-range wireless communications technology capable of exchanging information over a distance of about 10 m without requiring a physical connection.

You do not need to line up the devices to beam information with Bluetooth. If the devices are within range of one another, you can exchange information between them even if they are located in different rooms.



- Samsung is not responsible for the loss, interception, or misuse of data sent or received via the Bluetooth wireless 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 Bluetooth SIG, may be incompatible with your device.

▶ Turn on the Bluetooth wireless feature

- 1 In Idle mode, open the application list and select **Settings** → **Wireless and networks** → **Bluetooth settings**.
- 2 Select **Bluetooth** to turn on the Bluetooth wireless feature.

› Find and pair with other Bluetooth-enabled devices

- 1 In Idle mode, open the application list and select **Settings** → **Wireless and networks** → **Bluetooth settings** → **Scan devices**.
- 2 Select a device.
- 3 Enter a PIN for the Bluetooth wireless feature or the other device's Bluetooth PIN, if it has one, and select **OK**. Alternatively, select **Accept** to match the PIN between your device and the device.

When the owner of the other device enters the same PIN or accepts the connection, pairing is complete. If the pairing is successful, the device will automatically search for available services.



Some devices, especially headsets or hands-free car kits, may have a fixed Bluetooth PIN, such as 0000. If the other device has a PIN, you must enter it.

› Send data using the Bluetooth wireless feature

- 1 Select a file or item, such as a contact, memo, or media file, from an appropriate application or **My files**.
- 2 Press [≡] → **Share** or **Send via** → **Bluetooth**.
- 3 Search for and pair with a Bluetooth-enabled device.

› Receive data using the Bluetooth wireless feature

- 1 In Idle mode, open the application list and select **Settings** → **Wireless and networks** → **Bluetooth settings** → **Discoverable**.

Your device is visible to other Bluetooth devices for 120 seconds.

- 2 When prompted, enter the PIN for the Bluetooth wireless feature and select **OK** (if necessary).
- 3 Select **Accept** to confirm that you are willing to receive data from the device (if necessary).

Received data is saved to the bluetooth folder. If you receive a contact, it is automatically saved to the phonebook.

Wi-Fi

Learn to use your device's wireless networking capabilities to activate and connect to any wireless local area network (WLAN) compatible with the IEEE 802.11 b/g/n standards.

You can connect to the internet or other network devices anywhere an access point or wireless hotspot is available.



Your device uses 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 in France.

► Activate the WLAN feature

In Idle mode, open the application list and select **Settings** → **Wireless and networks** → **Wi-Fi settings** → **Wi-Fi**.



An active WLAN running in the background will consume battery power. To preserve battery power, activate the WLAN only when needed.

► Find and connect to a WLAN

- 1 In Idle mode, open the application list and select **Settings** → **Wireless and networks** → **Wi-Fi settings**. The device will automatically search for available WLANs.
- 2 Select a network under **Wi-Fi networks**.
- 3 Enter a password for the network (if necessary).
- 4 Select **Connect**.

➤ Add a WLAN manually

- 1 In Idle mode, open the application list and select **Settings** → **Wireless and networks** → **Wi-Fi settings** → **Add Wi-Fi network**.
- 2 Enter the SSID for the network and select the security type.
- 3 Set the security settings depending on the selected security type.
- 4 Select **Save**.

AllShare

Learn to use the Digital Living Network Alliance (DLNA) service that enables you to share media files between DLNA-enabled devices in your home over a WLAN.

You must first activate the WLAN feature and add a WLAN profile. ► p. 82

➤ Customise DLNA settings for sharing media files

To allow other DLNA-enabled devices to access media files on your device, you must activate media sharing.



Some files may not play on the DLNA-enabled devices depending on the devices.

- 1 In Idle mode, open the application list and select **AllShare**.
- 2 Select **Settings**.
- 3 Adjust the following settings to customise the DLNA feature:

Option	Function
Media server name	Enter a name for your device as a media server.
Share media	Turn on video sharing, image sharing, or music sharing with other DLNA-enabled devices.

Option	Function
Access point network	Select a WLAN AP to use for DLNA connections.
Upload from other devices	Set whether or not to accept the upload from other devices.

› Play your files on another DLNA-enabled device

- 1 In Idle mode, open the application list and select **AllShare**.
- 2 Select **Play file from my phone on another player**.
- 3 Select a media category and select files you want to play.
- 4 Select **Add to playlist**.

5 Select a player—the one that will play the media file. Playback begins at the selected player.

6 Control playback using icons of your device.



Playback may be buffered, depending on the network connection and the connected server.

› Play files of one device on the other device

- 1 In Idle mode, open the application list and select **AllShare**.
- 2 Select **Play file from server on another player via my phone**.
Your device automatically searches for DLNA-enabled devices.
- 3 Select a device as the media server—the one that contains media files.

- 4 Select a media category and select files you want to play.
- 5 Select **Add to playlist**.
- 6 Select a player—the one that will play the media file. Playback begins at the selected player.
- 7 Control playback using icons of your device.

Mobile network sharing

Learn to set your device as a wireless modem or wireless access point for PCs or other devices, and share your device's mobile network connection.

► Share your device's mobile network via USB

- 1 Using a PC data cable, connect the multifunction jack on your device to a PC.
- 2 In Idle mode, open the application list and select **Settings** → **Wireless and networks** → **Tethering and portable hotspot**.

- 3 Select **USB tethering** to activate the USB tethering feature.

Your device shares the mobile network connection on your PC.

To stop sharing the network connection, clear the check box next to **USB tethering**.



The sharing method for the network connection may differ depending on the PC's operating system.

› Share your device's mobile network via WLAN

- 1 In Idle mode, open the application list and select **Settings** → **Wireless and networks** → **Tethering and portable hotspot**.
- 2 Select **Mobile AP** to activate the mobile AP feature.
- 3 Select **Mobile AP settings** → **Configure mobile AP** to customise the mobile AP feature:

Option	Function
Network SSID	View and edit the device name that will be shown to external devices.
Security	Select the security type.

- 4 From another device, locate your device's name in the available connection list and connect to the network.
Your device shares the mobile network connection on another device.

PC connections

Learn to connect your device to a PC with a PC data cable in various USB connection modes. By connecting the device to a PC, you can transfer data to and from your device directly and use the Samsung Kies program.

› Connect with Samsung Kies

Ensure that Samsung Kies is installed on your PC. You can download the program from the Samsung website (www.samsung.com/kies).

- 1 Using a PC data cable, connect the multifunction jack on your device to a PC.
Samsung Kies will launch automatically.
If Samsung Kies does not automatically launch, double-click the Samsung Kies icon on your PC.
- 2 Copy files from the PC to the device.
Refer to the Samsung Kies help for more information.

➤ Connect as a mass storage device

If you insert a memory card in the device, you can access the file directory of the memory card by using the device as a memory card reader.

- 1 Insert a memory card into the device.
- 2 Using a PC data cable, connect the multifunction jack on your device to a PC.
- 3 Select **Connect storage to PC** → **OK**.
- 4 Open the folder to view files.
- 5 Copy files from the PC to the memory card.
- 6 When you are finished, select **Disconnect storage from PC**.



To disconnect the device from the PC, click the USB device icon on the Windows task bar and click the option to safely remove the mass storage device. Then remove the PC data cable from the PC. Otherwise, you may lose data stored on the memory card or damage the memory card.

VPN connections

You can create virtual private networks (VPN) and connect to your private network securely through a public network, such as the internet.



Your device should already be configured with internet access. If you have trouble accessing the internet, you need to edit connections. If you are not sure about the connection information to enter, ask your service provider.

► Set up VPN connections

1 In Idle mode, open the application list and select **Settings** → **Wireless and networks** → **VPN settings** → **Add VPN**.

2 Select a VPN type.

3 Customise the connection information.



Available options may vary depending on the VPN type.

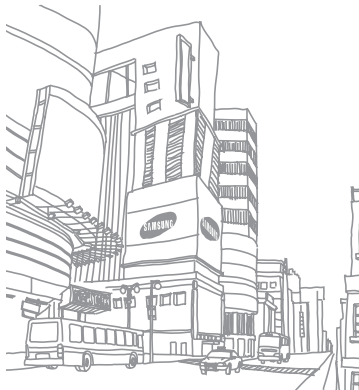
Option	Function
VPN name	Enter a name of the VPN server.
Set VPN server	Enter the IP address of the VPN server.
Enable Encryption	Set to encrypt the VPN server.
Set IPsec pre-shared key	Enter a pre-shared key.

Option	Function
Enable L2TP secret	Set to use the L2TP secret password.
Set L2TP secret	Enter the L2TP secret password.
Set user certificate	Select a user certificate that the VPN server uses to identify you. You can import certificates from the VPN server or download from the web.
Set CA certificate	Select a certificate authority (CA) certificate that the VPN server uses to identify you. You can import certificates from the VPN server or download from the web.
DNS search domains	Enter the domain name server (DNS) address.

4 When you are finished, press [] → **Save**.

➤ Connect to a private network

- 1 In Idle mode, open the application list and select **Settings** → **Wireless and networks** → **VPN settings**.
- 2 Select a private network to connect.
- 3 Enter the user name and password and select **Connect**.



Tools

Clock

Learn to use the clock display on the Idle screen, and set and control alarms for important events.

› Use the clock display

- 1 In Idle mode, open the application list and select **Clock**.
- 2 While using the clock display, use the following features:
 - To create or delete an alarm, select .
 - To play a slideshow with photos in Gallery, select .
 - To launch the music player, select .
 - To return to the idle screen, select .

› Set a new alarm

- 1 In Idle mode, open the application list and select **Clock**.
 - 2 Press [] → **Add alarm**.
 - 3 Set alarm details.
 - 4 When you are finished, select **Done**.
-  The snooze feature sets the device to repeat the alarm after a specific length of time. To set the length of time for the snooze feature, press [] → **Settings** → **Snooze duration**.

› Stop an alarm

When the alarm sounds,

- Select **Dismiss** to stop the alarm.
- Select **Snooze** to repeat the alarm after a specified length of time.

Calculator

Learn to perform mathematical calculations directly on your device like a typical hand-held or desktop calculator.

- 1 In Idle mode, open the application list and select **Calculator**.
- 2 Use the keys that correspond to the calculator display to perform basic mathematical operations.
- 3 Press [≡] → **Advanced panel** to use scientific calculator.

Downloads

Learn to manage logs of files you have downloaded from the web and email.

- 1 In Idle mode, open the application list and select **Downloads**.

- 2 Select a download folder.
- 3 To open a downloaded file, select the log.
To delete a log, select the check box and then select **Delete**.

My files

Learn to quickly and easily access all of your images, videos, music, sound clips, and other types of files stored on your memory card.

- 1 In Idle mode, open the application list and select **My files**.
- 2 Select a folder.
 - To move up one level in the file directory, select **Up**.
 - To return to the Home directory, select **Home**.
- 3 Select a file to open.

In a folder, press [F3] to use the following options:

- To send a file to others via multimedia message, email or the Bluetooth wireless feature, select **Share**.
- To create a new folder, select **Create folder**.
- To delete files or folders, select **Delete**.
- To change the view mode, select **View by**.
- To sort files or folders, select **List by**.
- To use additional features using a file, such as moving, copying or renaming option, select **More**.

SIM Toolkit

Use a variety of additional services offered by your service provider. Depending on your SIM or USIM card, this menu may be available but labelled differently.

In Idle mode, open the application list and select **SIM Toolkit**.

Task manager

With the task manager, you can view currently running applications, package size of applications, and memory information, and monitor the RAM memory.

- 1 In Idle mode, open the application list and select **Task manager**.
- 2 Use the following options:
 - **Active applications:** View the list of all the applications currently running on your device.
 - **Package:** View the package size of applications installed on your device.
 - **RAM:** Check and manage the RAM memory for your device.
 - **Summary:** View the used and available memory on your device and memory card.
 - **Help:** View help information about extending battery life.

ThinkFree Office

Learn to create and view document files on your device. If you have an account with the ThinkFree web service, you can manage documents online. This application supports the following file formats: doc, docx, rtf, txt, xls, xlsx, csv, ppt, pps, pot, pptx, ppsx, potx, pdf.

› Create a new document

- 1 In Idle mode, open the application list and select **ThinkFree Office**.
- 2 Select **Accept** to confirm, if you are launching this application for the first time.
- 3 Select **Activate now** → **Close** to activate ThinkFree Office.
- 4 Select **My Docs**.
- 5 Press [≡] → **New** → a document type.

- 6 Enter a name for the document and select **OK**.
- 7 Enter contents in the document by using the tools at the bottom of the screen.
- 8 When you are finished editing, select  on the toolbar or press [≡] → **File** → **Save**.

› View and edit a document on your device

- 1 In Idle mode, open the application list and select **ThinkFree Office**.
- 2 Select **My Docs** → a document.
- 3 Select a text encoding type (if necessary).
- 4 View and edit the document as desired.
 - To zoom in or out, use the two finger zoom; Place your two fingers on the screen and slowly pinch or spread apart.

- To open the toolbar to edit the document (word, text, or excel file), press [≡] → **Edit**.
- To search for text in the document, press [≡] → **Find**.

5 When you are finished editing, save the document.

➤ Manage documents online

- 1 In Idle mode, open the application list and select **ThinkFree Office**.
- 2 Select **Online**.
- 3 Enter your user name and password to access your account, and then select **Sign in**.
- 4 View and manage your documents on the server as desired.

Voice Search

Learn to use the voice command feature to dial a number, send a message, or search for locations and information by voice.



This feature may be unavailable depending on your region or service provider.

- 1 In Idle mode, open the application list and select **Voice Search**.
- 2 If you are launching this application for the first time, select **Agree** to use location information for your search, and then set whether or not to activate personalised recognition.
- 3 Select **Speak now** → **OK** (if necessary).
- 4 Say a command into the microphone.



To watch the video tutorial, select **Watch a video** from the help screen.

Settings

Access the Settings menu

- 1 In Idle mode, open the application list and select **Settings**.
- 2 Select a setting category and select an option.

Wireless and networks

Change the settings for wireless network connections.

› Flight mode

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

› Wi-Fi settings

- **Wi-Fi:** Turn the WLAN feature on or off. ► p. 82
- **Network notification:** Set the device to notify you when an open network is available.
- **Add Wi-Fi network:** Add WLAN APs manually.

› Bluetooth settings

- **Bluetooth:** Turn the Bluetooth wireless feature on or off. ► p. 80
- **Device name:** Set a Bluetooth name for your device.
- **Discoverable:** Set your device to be visible to other Bluetooth devices.
- **Scan devices:** Search for available Bluetooth devices.

› Tethering and portable hotspot

- **USB tethering:** Activate the USB tethering feature to share your device's mobile network connection with PCs via USB. When connected to a PC, your device is used as a wireless modem for a PC. ► p. 85

- **Mobile AP:** Activate the Portable WLAN hotspot feature to share your device's mobile network connection with PCs or other devices through the WLAN feature. ► p. 86
- **Mobile AP settings:** Configure network settings for your WLAN hotspot.

› VPN settings

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

► p. 87

› Mobile networks

- **Use packet data:** Set to allow packet switched data networks for network services.
- **Data roaming:** Set the device to connect another network when you are roaming or your home network is not available.
- **Access Point Names:** Set up access point names (APNs).

- **Use only 2G networks:** Set the device to connect only to a 2G network.
- **Network operators:** Search for available networks and select a network for roaming.

Call settings

Customise the settings for calling features.

› Fixed Dialing Numbers

- **Enable FDN:** Activate or deactivate FDN mode to restrict calls to numbers in the FDN list. You must enter the PIN2 supplied with your SIM or USIM card.
- **Change PIN2:** Change the PIN2, which is used to protect the primary PIN. If the SIM or USIM card is locked, this menu changes to **Unblock PIN2**.
- **FDN list:** Set up a list of contacts for fixed dialling.

› Voicemail service

Select your service provider's voicemail service. You can also select other voicemail services if you downloaded applications that support them.

› Voice mail number

Enter the number to access the voicemail service. You can obtain this number from your service provider.

› Call forwarding

Divert incoming calls to another number.

› Additional settings

- **Caller ID:** Display your caller ID to other parties for outgoing calls.
- **Call waiting:** Allow incoming call alerts when a call is in progress.
- **Turn on proximity sensor:** Set to turn on the proximity sensor during a call.

Sound

Change the settings for various sounds on your device.

- **Silent mode:** Activate the silent mode to mute all sounds except media sounds and alarm ringtones.
- **Vibrate:** Set when the device will vibrate for various events.
- **Volume:** Adjust the volume level for call ringtones, music and videos, alarm ringtones, system sound, and notification ringtones.
- **Phone ringtone:** Select a ringtone to alert you to incoming calls.
- **Notification ringtone:** Select a ringtone to alert you to events, such as incoming messages and missed calls.
- **Audible touch tones:** Set the device to sound when you touch the keys on the dialling screen.
- **Audible selection:** Set the device to sound when you select an application or option.
- **Screen lock sounds:** Set the device to sound when you lock or unlock the touch screen.

Display

Change the settings for the display.

- **Wallpapers:**
 - **Home screen wallpaper:** Select a background image for the idle screen.
 - **Lock screen wallpaper:** Select a background image for the screen lock.
- **Font style:** Change the font type for the display text. You can download fonts from Android Market by selecting **Get fonts online**.
- **Brightness:** Set the brightness of the display.
- **Auto-rotate screen:** Set whether or not to rotate the content automatically when the device is rotated.
- **Animation:** Set the device to display animation when you switch between windows.
- **Screen timeout:** Set the length of time the device waits before turning off the display's backlight.

- **Horizontal calibration:** Calibrate the accelerometer to adjust the horizontal axis of the device for better motion recognition.

Location and security

Change the settings for securing your device and the SIM or USIM card, and GPS functionality.

- **Use wireless networks:** Set to use WLAN and/or mobile networks for finding your location.
- **Use GPS satellites:** Set to use the GPS satellite for finding your location.
- **Set screen lock:** Set the unlock security code. When you have set your security code, this option changes to **Change screen lock**.
 - **None:** Disable the screen lock.
 - **Pattern:** Set an unlock pattern to unlock the screen.
 - **PIN:** Set a PIN (numeric) to unlock the screen.

- **Password:** Set a password (alphanumeric) to unlock the screen.
- **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.
- **Visible passwords:** Set the device to display your password as you enter.
- **Select device administrators:** View device administrators installed on your device. You can activate device administrators to apply new policies to your device.
- **Use secure credentials:** Use certificates and credentials to ensure secure use of various applications.
- **Install from SD card:** Install encrypted certificates that are stored on a memory card.

- **Set password:** Create and confirm a password for accessing credentials.
- **Clear storage:** Erase the credential contents from the device and reset the password.

Applications

Change the settings for managing installed applications.

- **Unknown sources:** Select to download applications from any source. If you do not select this option, you can download applications only from Android Market.
- **Manage applications:** Access the list of the applications installed on the device and check the application information.
- **Running services:** View the services you are using and access them to manage.
- **Memory usage:** View available memory and the memory used by applications on your device and memory card.

- **Battery use:** View the amount of power consumed by your device.
- **Development:**
 - **USB debugging:** This is for application development. When your device is connected to a PC with a PC data cable, the USB debugging mode will be activated and Samsung Kies will launch automatically.
 - **Stay awake:** Set the device's screen to stay on while charging the battery.
 - **Allow mock locations:** Allow mock locations and service information to be sent to a Location Manager service for testing. This is for application development.
- **Samsung Apps:** Select a network connection (WLAN or packet switched data network) to get application update notification from Samsung Apps.



This feature may be unavailable depending on your region or service provider.

Accounts and sync

Change the settings for the auto sync feature or manage accounts for synchronisation.

- **Background data:** Select this setting to use the auto sync feature. The auto sync will run in the background without opening applications and synchronise data.
- **Auto-sync:** Set the device to synchronise contact, calendar, and email data automatically.

Privacy

Change the settings for managing your settings and data.

- **Back up my data:** Back up your device's settings to the Google server.
- **Automatic restore:** Set the device to restore applications' data you backed up when they are installed in your device.

- **Factory data reset:** Reset your settings to the factory default values and delete all your data.

SD card and phone storage

Check memory information of memory cards and your device, and format a memory card.

Locale and text

Change the settings for text input.

› Select language

Select a display language for all menus and applications.

› Select input method

Select a default keyboard type for text input.

› Swype

- **Language:** Select a language for text input.



You cannot enter text in some languages. To enter text, you should change the writing language to one of the supported languages.

- **Audio feedback:** Set to alert you when there are no alternative words for your input if you double-tap a word.
- **Enable tip indicator:** Set to alert you to quick help by blinking the tip indicator.
- **Auto-spacing:** Set the device to automatically insert a space between words.
- **Auto-capitalization:** Set the device to automatically capitalise the first letter after a final punctuation mark, such as a period, question mark, or exclamation mark.
- **Show complete trace:** Set to display the trace of your dragging on the keyboard.

- **Speed vs. accuracy:** Set the balance for the speed and accuracy.
- **Swype help:** Access help information for using the Swype keyboard.
- **Tutorial:** Learn how to enter text faster with the Swype keyboard.
- **Version:** View version information.

» Samsung keypad

- **Portrait keypad types:** Select the default input method, such as the QWERTY keyboard, traditional keypad, or handwriting screen.
 - **Input languages:** Select languages for text input.
-  You cannot enter text in some languages. To enter text, you should change the writing language to one of the supported languages.
- **XT9:** Activate XT9 mode to enter text using Predictive input mode.

- **XT9 advanced settings:** Activate the advanced features of XT9 mode, such as auto completion, auto correction, or auto substitution, and set up your own word list.
- **Keypad sweeping:** Enable or disable the keypad sweeping feature for the text input mode. You can switch between input modes by scrolling left or right on the keypad.
- **Auto-capitalization:** Set the device to automatically capitalise the first letter after a final punctuation mark, such as a period, question mark, or exclamation mark.
- **Handwriting settings:** Customise the recognition time in Handwriting mode.
- **Voice input:** Activate the voice input feature to enter text by voice on the Samsung keypad.
- **Auto-full stop:** Set the device to insert a period when you double-tap the space bar.
- **Tutorial:** Learn how to enter text with the Samsung keypad.

Voice input and output

Change the settings for the voice recogniser and the text-to-speech feature.

› Voice recognition settings

- **Language:** Select a language for the Google voice recognition.
- **SafeSearch:** Set the device to filter explicit text and/or images from voice search results.
- **Block offensive words:** Hide offensive words your device recognised from voice search results.

› Text-to-speech settings

- **Listen to an example:** Listen to the spoken text for an example. Install voice data for using the text-to-speech feature.
- **Always use my settings:** Set the device to use the settings you specify in applications rather than the default settings.

- **Default engine:** Set the speech synthesis engine to be used for spoken text.
- **Install voice data:** Download and install voice data for the text-to-speech feature.
- **Speech rate:** Select a speed for the text-to-speech feature.
- **Language:** Select a language for the text-to-speech feature.
- **Engines:** View the text-to-speech engines downloaded from Android Market.

Accessibility

Change the settings for accessibility features.

- **Accessibility:** Activate an accessibility application you have downloaded, such as Talkback or Kickback, which provide voice, melody, or vibration feedback.
- **The power key ends calls:** Set the device to end a call when you press [⓪].

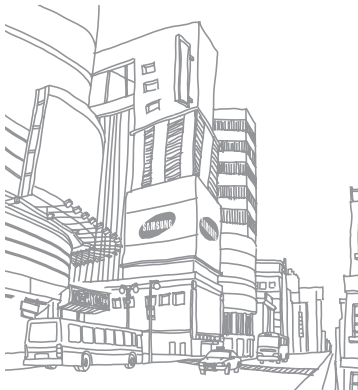
Date and time

Access and alter the following settings to control how time and date are displayed on your device:

- **Automatic:** Automatically update the time when you move across time zones.
- **Set date:** Set the current date manually.
- **Select time zone:** Set your home time zone.
- **Set time:** Set the current time manually.
- **Use 24-hour format:** Set to the time to be displayed in 24-hour format.
- **Select date format:** Select a date format.

About phone

Access information about your device, check the device's status, and learn how to use your device.



Menu	Description
Memory status	Check memory information for each items in the phone's memory or on a memory card.
Reset settings	Reset the phone's settings you have changed.
Key management	Manage the licence keys you have acquired to activate media files locked by DRM systems.

Health and safety

Exposure to Radio Frequency (RF) Signals

Certification Information (SAR)

Your wireless phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the exposure limits for radio frequency (RF) energy set by the Federal Communications Commission (FCC) of the U.S. government. These FCC exposure limits are derived from the recommendations of two expert organizations, the National Counsel on Radiation Protection and Measurement (NCRP) and the Institute of Electrical and Electronics Engineers (IEEE). In both cases,

the recommendations were developed by scientific and engineering experts drawn from industry, government, and academia after extensive reviews of the scientific literature related to the biological effects of RF energy.

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

SAR tests are conducted using standard operating positions accepted by the FCC with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is because the phone is designed to operate at

multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

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

For body worn operations, this model phone has been tested and meets the FCC exposure guidelines when used with a

Samsung accessory designated for this product or when used with an accessory that contains no metal and that positions the handset a minimum 1.0 cm from the body.

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

SAR information on this and other model phones can be viewed on-line at <http://www.fcc.gov/oet/ea/fccid>. This site uses the phone FCC ID number **A3LGTS5660V**.

Sometimes it may be necessary to remove the battery pack to find the number. Once you have the FCC ID number for a particular phone, follow the instructions on the website and it should provide values for typical or maximum SAR for a particular phone.

Additional product specific SAR information can also be obtained at www.fcc.gov/cgb/sar.

Consumer Information on Wireless Phones

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

What kinds of phones are the subject of this update?

The term wireless phone refers here to hand-held wireless phones with built-in antennas, often called “cell,” “mobile,” or “PCS” phones. These types of wireless phones can expose the user to measurable radio frequency energy (RF) because of the short distance between the phone and the user's head. These RF exposures are limited by Federal Communications Commission safety guidelines that were developed with

the advice of FDA and other federal health and safety agencies. When the phone is located at greater distances from the user, the exposure to RF is drastically lower because a person's RF exposure decreases rapidly with increasing distance from the source. The so-called “cordless phones,” which have a base unit connected to the telephone wiring in a house, typically operate at far lower power levels, and thus produce RF exposures well within the FCC's compliance limits.

Do wireless phones pose a health hazard?

The available scientific evidence does not show that any health problems are associated with using wireless phones. There is no proof, however, that wireless phones are absolutely safe. Wireless phones emit low levels of radio frequency energy (RF) in the microwave range while being used. They

also emit very low levels of RF when in the stand-by mode. Whereas high levels of RF can produce health effects (by heating tissue), exposure to low level RF that does not produce heating effects causes no known adverse health effects. Many studies of low level RF exposures have not found any biological effects. Some studies have suggested that some biological effects may occur, but such findings have not been confirmed by additional research. In some cases, other researchers have had difficulty in reproducing those studies, or in determining the reasons for inconsistent results.

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

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

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

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

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

- "National Institute for Occupational Safety and Health
- "Environmental Protection Agency

- "Federal Communications Commission
- "Occupational Safety and Health Administration
- "National Telecommunications and Information Administration

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

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

FCC also regulates the base stations that the wireless phone networks rely upon. While these base stations operate at higher power

than do the wireless phones themselves, the RF exposures that people get from these base stations are typically thousands of times lower than those they can get from wireless phones. Base stations are thus not the primary subject of the safety questions discussed in this document.

What are the results of the research done already?

The research done thus far has produced conflicting results, and many studies have suffered from flaws in their research methods. Animal experiments investigating the effects of radio frequency energy (RF) exposures characteristic of wireless phones have yielded conflicting results that often cannot be repeated in other laboratories. A few animal studies, however, have suggested that low levels of RF could

accelerate the development of cancer in laboratory animals. However, many of the studies that showed increased tumor development used animals that had been genetically engineered or treated with cancer-causing chemicals so as to be pre-disposed to develop cancer in absence of RF exposure. Other studies exposed the animals to RF for up to 22 hours per day. These conditions are not similar to the conditions under which people use wireless phones, so we don't know with certainty what the results of such studies mean for human health.

Three large epidemiology studies have been published since December 2000. Between them, the studies investigated any possible association between the use of wireless phones and primary brain cancer, glioma, meningioma, or acoustic neuroma, tumors

of the brain or salivary gland, leukemia, or other cancers. None of the studies demonstrated the existence of any harmful health effects from wireless phones RF exposures. However, none of the studies can answer questions about long-term exposures, since the average period of phone use in these studies was around three years.

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

A combination of laboratory studies and epidemiological studies of people actually using wireless phones would provide some of the data that are needed. Lifetime animal exposure studies could be completed in a few years. However, very large numbers of animals would be needed to provide reliable

proof of a cancer promoting effect if one exists. Epidemiological studies can provide data that is directly applicable to human populations, but ten or more years' follow-up may be needed to provide answers about some health effects, such as cancer. This is because the interval between the time of exposure to a cancer-causing agent and the time tumors develop - if they do - may be many, many years. The interpretation of epidemiological studies is hampered by difficulties in measuring actual RF exposure during day-to-day use of wireless phones. Many factors affect this measurement, such as the angle at which the phone is held, or which model of phone is used.

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

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

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

FDA and Cellular Telecommunications & Internet Association (CTIA) have a formal

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

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

If there is a risk from these products - and at this point we do not know that there is - it

is probably very small. But if you are concerned about avoiding even potential risks, you can take a few simple steps to minimize your exposure to radio frequency energy (RF). Since time is a key factor in how much exposure a person receives, reducing the amount of time spent using a wireless phone will reduce RF exposure.

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

Again, the scientific data do not demonstrate
72 that wireless phones are harmful. But if you

are concerned about the RF exposure from these products, you can use measures like those described above to reduce your RF exposure from wireless phone use.

What about children using wireless phones?

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

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

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

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

Since there are no known risks from exposure to RF emissions from wireless phones, there is no reason to believe that hands-free kits reduce risks. Hands-free kits can be used with wireless phones for convenience and comfort. These systems reduce the absorption of RF energy in the head because the phone, which is the source

of the RF emissions, will not be placed against the head. On the other hand, if the phone is mounted against the waist or other part of the body during use, then that part of the body will absorb more RF energy. Wireless phones marketed in the U.S. are required to meet safety requirements regardless of whether they are used against the head or against the body. Either configuration should result in compliance with the safety limit.

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

Since there are no known risks from exposure to RF emissions from wireless phones, there is no reason to believe that accessories that claim to shield the head from those emissions reduce risks. Some products that claim to shield the user from

RF absorption use special phone cases, while others involve nothing more than a metallic accessory attached to the phone. Studies have shown that these products generally do not work as advertised. Unlike “hand-free” kits, these so-called “shields” may interfere with proper operation of the phone. The phone may be forced to boost its power to compensate, leading to an increase in RF absorption. In February 2002, the Federal Trade Commission (FTC) charged two companies that sold devices that claimed to protect wireless phone users from radiation with making false and unsubstantiated claims. According to FTC, these defendants lacked a reasonable basis to substantiate their claim.

What about wireless phone interference with medical equipment?

Radio frequency energy (RF) from wireless phones can interact with some electronic devices. For this reason, FDA helped develop a detailed test method to measure electromagnetic interference (EMI) of implanted cardiac pacemakers and defibrillators from wireless telephones. This test method is now part of a standard sponsored by the Association for the Advancement of Medical instrumentation (AAMI). The final draft, a joint effort by FDA, medical device manufacturers, and many other groups, was completed in late 2000. This standard will allow manufacturers to ensure that cardiac pacemakers and defibrillators are safe from wireless phone EMI. FDA has tested wireless phones and helped develop a voluntary standard sponsored by the Institute of Electrical and Electronic Engineers (IEEE). This standard specifies test methods and performance

requirements for hearing aids and wireless phones so that no interference occurs when a person uses a compatible phone and a compatible hearing aid at the same time. This standard was approved by the IEEE in 2000.

FDA continues to monitor the use of wireless phones for possible interactions with other medical devices. Should harmful interference be found to occur, FDA will 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/emfpg.html>
- 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.nrpb.org.uk>
- Updated 4/3/2002: US Food and Drug Administration
<http://www.fda.gov/Radiation-EmittingProducts/RadiationEmittingProductsandProcedures/HomeBusinessandEntertainment/CellPhones/default.htm>

Road Safety

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

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

1. Get to know your wireless phone and its features, such as speed dial and redial. If available, these features help you to place your call without taking your attention off the road.
2. When available, use a hands-free device.

convenience and safety to your wireless phone with one of the many hands free accessories available today.

3. Position your wireless phone within easy reach. Be able to access your wireless phone without removing your eyes from the road. If you get an incoming call at an inconvenient time, let your voice mail answer it for you.
4. Let the person you are speaking with know you are driving; if necessary, suspend the call in heavy traffic or hazardous weather conditions. Rain, sleet, snow, ice and even heavy traffic can be hazardous.
5. Do not take notes or look up phone numbers while driving. Jotting down a "to do" list or flipping through your address book takes attention away from your primary responsibility, driving safely.
6. Dial sensibly and assess the traffic; if possible, place calls when you are not moving or before pulling into traffic. Try to plan calls when your car will be stationary. If you need to make a call while moving, dial only a few numbers, check the road and your mirrors, then continue.

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

“The wireless industry reminds you to use your phone safely when driving.”

For more information, please call 1-888-901-SAFE, or visit our web-site www.wow-com.com

Provided by the Cellular Telecommunications & Internet Association

Operating Environment

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

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

Using Your Phone Near Other Electronic Devices

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

Pacemakers

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

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

Persons with pacemakers:

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

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

Hearing Aids

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

Other Medical Devices

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

Vehicles

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

Posted Facilities

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

Potentially Explosive Environments

Switch your phone off when in any area with a potentially explosive atmosphere and obey all signs and instructions. Sparks in such

areas could cause an explosion or fire resulting in bodily injury or even death.

Users are advised to switch the phone off while at a refueling point (service station). Users are reminded of the need to observe restrictions on the use of radio equipment in fuel depots (fuel storage and distribution areas), chemical plants or where blasting operations are in progress.

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

area where you would normally be advised to turn off your vehicle engine.

Emergency Calls

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

Remember, to make or receive any calls the phone must be switched on and in a service area with adequate signal strength. Emergency calls may not be possible on all wireless phone networks or when certain

network services and/or phone features are in use. Check with local service providers.

To make an emergency call:

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

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

When making an emergency call, remember to give all the necessary information as accurately as possible. Remember that your

phone may be the only means of communication at the scene of an accident; do not cut off the call until given permission to do so.

Restricting Children's access to your Phone

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

FCC Notice and Cautions

FCC Notice

- This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
- This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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

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

Cautions

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

Only use approved batteries, antennas and chargers. The use of any unauthorized accessories may be dangerous and void the phone warranty if said accessories cause damage or a defect to the phone.

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

Other Important Safety Information

- Only qualified personnel should service the phone or install the phone in a vehicle. Faulty installation or service may be dangerous and may invalidate any warranty applicable to the device.
- Check regularly that all wireless phone equipment in your vehicle is mounted and operating properly.
- Do not store or carry flammable liquids, gases or explosive materials in the same compartment as the phone, its parts or accessories.
- For vehicles equipped with an air bag, remember that an air bag inflates with great force. Do not place objects, including both installed or portable

wireless equipment in the area over the air bag or in the air bag deployment area. If wireless equipment is improperly installed and the air bag inflates, serious injury could result.

- Switch your phone off before boarding an aircraft. The use of wireless phone in aircraft is illegal and may be dangerous to the aircraft's operation.
- Failure to observe these instructions may lead to the suspension or denial of telephone services to the offender, or legal action, or both.

Product Performance

Getting the Most Out of Your Signal Reception

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

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

Understanding the Power Save Feature

If your phone is unable to find a signal after 15 minutes of searching, a Power Save feature is automatically activated. If your phone is active, it periodically rechecks

service availability or you can check it yourself by pressing any key.

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

Maintaining Your Phone's Peak Performance

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

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

- Place the mobile phone's acoustic output next to your ear for proper orientation.
Do not tamper or alter the phone's antenna.

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

Availability of Various Features/ Ring Tones

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

Battery Standby and Talk Time

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

Battery Precautions

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

and the parameters set by the network operator.

- Battery charging time depends on the remaining battery charge and the type of battery and charger used. The battery can be charged and discharged hundreds of times, but it will gradually wear out. When the operation time (talk time and standby time) is noticeably shorter than normal, it is time to buy a new battery.
- If left unused, a fully charged battery will discharge itself over time.
- Use only Samsung-approved batteries and recharge your battery only with Samsung-approved chargers. When a charger is not in use, disconnect it from the power source. Do not leave the battery connected to a charger for more

than a week, since overcharging may shorten its life.

- Extreme temperatures will affect the charging capacity of your battery: it may require cooling or warming first.
- Do not leave the battery in hot or cold places, such as in a car in summer or winter conditions, as you will reduce the capacity and lifetime of the battery. Always try to keep the battery at room temperature. A phone with a hot or cold battery may temporarily not work, even when the battery is fully charged. Li-ion batteries are particularly affected by temperatures below 0 °C (32 °F).
- Do not short-circuit the battery. Accidental short-circuiting can occur when a metallic object (coin, clip or pen) causes a direct connection between the

+ and - terminals of the battery (metal strips on the battery), for example when you carry a spare battery in a pocket or bag. Short-circuiting the terminals may damage the battery or the object causing the short-circuiting.

- Dispose of used batteries in accordance with local regulations. In some areas, the disposal of batteries in household or business trash may be prohibited. For safe disposal options for Li-Ion batteries, contact your nearest Samsung authorized service center. Always recycle. Do not dispose of batteries in a fire.

Care and Maintenance

Your phone is a product of superior design and craftsmanship and should be treated

with care. The suggestions below will help you fulfill any warranty obligations and allow you to enjoy this product for many years.

- Keep the phone and all its parts and accessories out of the reach of small children.
- Keep the phone dry. Precipitation, humidity and liquids contain minerals that will corrode electronic circuits.
- Do not use the phone with a wet hand. Doing so may cause an electric shock to you or damage to the phone.
- Do not use or store the phone in dusty, dirty areas, as its moving parts may be damaged.
- Do not store the phone in hot areas. High temperatures can shorten the life of electronic devices, damage batteries, and warp or melt certain plastics.
- Do not store the phone in cold areas. When the phone warms up to its normal operating temperature, moisture can form inside the phone, which may damage the phone's electronic circuit boards.
- Do not drop, knock or shake the phone. Rough handling can break internal circuit boards.
- Do not use harsh chemicals, cleaning solvents or strong detergents to clean the phone. Wipe it with a soft cloth slightly dampened in a mild soap-and-water solution.
- Do not paint the phone. Paint can clog the device's moving parts and prevent proper operation.
- Do not put the phone in or on heating devices, such as a microwave oven, a

stove or a radiator. The phone may explode when overheated.

- When the phone or battery gets wet, the label indicating water damage inside the phone changes color. In this case, phone repairs are no longer guaranteed by the manufacturer's warranty, even if the warranty for your phone has not expired.
- If your phone has a flash or light, do not use it too close to the eyes of people or animals. This may cause damage to their eyes.
- Use only the supplied or an approved replacement antenna. Unauthorized antennas or modified accessories may damage the phone and violate regulations governing radio devices.
- If the phone, battery, charger or any accessory is not working properly, take it

to your nearest qualified service facility. The personnel there will assist you, and if necessary, arrange for service.

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