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

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User’s Guide





Important safety precautions

☑ Failure to comply with the following precautions may be dangerous or illegal.

Copyright information

- Bluetooth® is a registered trademark of the Bluetooth SIG, Inc. worldwide. Bluetooth QD ID: B013829
- Java™ is a trademark or registered trademark of Sun Microsystems, Inc.
- Windows Media Player® is a registered trademark of Microsoft Corporation.

Drive safely at all times

Do not use a hand-held phone while driving. Park your vehicle first.

Switch off the phone when refuelling

Do not use the phone at a refuelling point (service station) or near fuels or chemicals.

Switch off in an aircraft

Wireless phones can cause interference. Using them in an aircraft is both illegal and dangerous.

Switch off the phone near all medical equipment

Hospitals or health care facilities may be using equipment that could be sensitive to external radio frequency energy. Follow any regulations or rules in force.

Interference

All wireless phones may be subject to interference, which could affect their performance.

Be aware of special regulations

Meet any special regulations in force in any area and always switch off your phone whenever it is forbidden to use it, or when it may cause interference or danger.

Water resistance

Your phone is not water-resistant. Keep it dry.

Sensible use

Use only in the normal position (held to your ear). Avoid unnecessary contact with the antenna when the phone is switched on.

Emergency calls

Key in the emergency number for your present location, then press .

Keep your phone away from small children

Keep the phone and all its parts, including accessories, out of the reach of small children.

Accessories and batteries

Use only Samsung-approved batteries and accessories, such as headsets and PC data cables. Use of any unauthorised accessories could damage you or your phone and may be dangerous.

- The phone could explode if the battery is replaced with an incorrect type.
- Dispose of used batteries according to the manufacturer's instructions.



At very high volumes, prolonged listening to a headset can damage your hearing.

Qualified service

Only qualified service personnel may repair your phone.

For more detailed safety information, see "Health and safety information" on page 40.

About this Guide

This User's Guide provides you with condensed information about how to use your phone.

In this guide, the following instruction icons appear:

☑	Indicates that you need to pay careful attention to the subsequent information regarding safety or phone features.
→	Indicates that you need to press the Navigation keys to scroll to the specified option and then select it.
[ ]	Indicates a key on the phone. For example, [ ]
< >	Indicates a soft key, whose function is displayed on the phone screen. For example, <**Menu**>



- **Camera and camcorder**

  Use the camera module on your phone to take a photo or record a video.

Special features of your phone



- **Synchronisation with Windows Media Player**

  Transfer music files to your phone directly from the Windows Media Player.



- **Music player**

  Play music files using your phone as a music player. You can use other phone functions while listening to music.



- **Java**

  Enjoy Java-based embedded games and download new games.



- **Image editor**

  Edit or decorate your photos.



- **FM radio**

  Listen to your favourite radio stations anytime, anywhere.



- **Offline mode**

  Switch your phone to Offline mode to use its non-wireless functions while on an airplane.



- **Bluetooth**

  Transfer media files and personal data, and connect to other devices using wireless Bluetooth technology.



- **SOS message**

  Send SOS messages to your family or friends for help in an emergency.



- **Voice recorder**

  Record memos or sounds.

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Overview of menu functions

To access Menu mode, press <**Menu**> in Idle mode.

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8 Browser settings
9 Music player settings[3]
10 Network settings
11 Security settings
12 Setup wizard
13 Memory settings
14 Reset settings

1. Available only if supported by your SIM card.
2. Available only if a memory card is inserted.
3. Depending on your service provider, **Media player settings** may be displayed instead of this menu.

Unpack

Make sure you have each item

- Phone
- Travel adapter
- Battery
- User's Guide

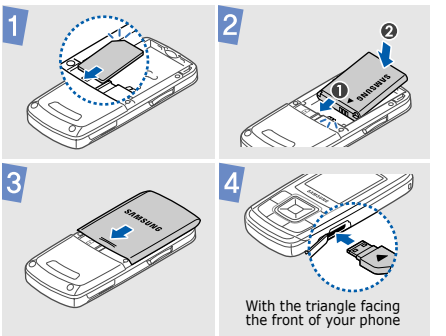
You can obtain various accessories from your local Samsung dealer.

The items supplied with your phone and the accessories available at your Samsung dealer may vary, depending on your country or service provider.

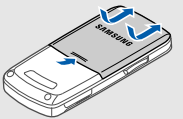
Get started

First steps to operating your phone

Assemble and charge the phone



Removing the battery cover

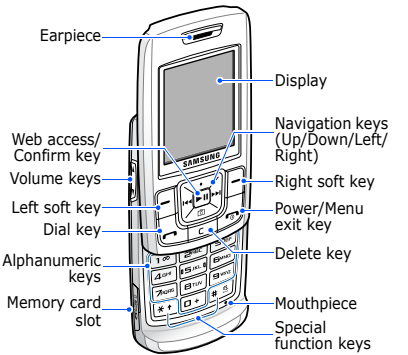


Power on or off

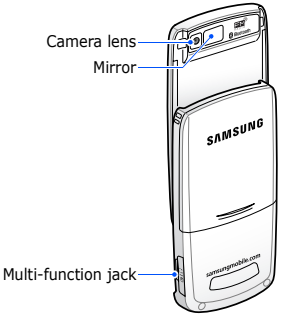
Switch on	1. Open the phone. 2. Press and hold [☎]. 3. If necessary, enter the PIN and press <**OK**>. 4. When the setup wizard opens, customise your phone according to your preferences.
Switch off	1. Open the phone. 2. Press and hold [☎].

Phone layout

Front view



Rear view



When you close the phone, it locks the exposed keys to avoid accidental key presses. To unlock the keypad, press <**Unlock**> and then <**OK**>.

Keys and icons

Keys

	Perform the function indicated on the bottom line of the display.
	In Idle mode, access the following menus directly: • Up: My menu mode • Down: launch the camera • Left/Right: your favourite menus In Menu mode, scroll through menu options.

	In Idle mode, launch the web browser. In Menu mode, select the highlighted menu option or confirm input.
	Make or answer a call. In Idle mode, retrieve the numbers recently dialled, missed, or received.
	Delete characters from the display or items in an application.
	Press and hold to switch the phone on or off. End a call. In Menu mode, cancel input and return the phone to Idle mode.
	Enter numbers, letters, and some special characters. In Idle mode, press and hold [**1**] to access your voice mail server. Press and hold [**0**] to enter an international call prefix.
	Enter special characters or perform special functions. In Idle mode, press and hold [#] to activate or deactivate the Silent profile. Press and hold [*] to enter a pause between numbers.
	Adjust the phone volume.

Icons

The following icons may appear on the screen to indicate your phone's status. Depending on your country or service provider, the icons shown on the display may vary.

	Signal strength
	Call in progress
	Out of your service area or Offline mode
	SOS message feature active
	Alarm set
	GPRS (2.5G) network status
	EDGE network status
	Browsing Internet

	Connected to secured web page
	Call diverting active
	Home Zone
	Office Zone
	Bluetooth active
	Bluetooth hands-free car kit or headset connected
	One of the message Inboxes is full
	New message: • : Text message • : Multimedia message • : Email • : Voice mail

	Memory card inserted
	Music playback in progress
	Music playback paused
	FM radio on
	Profile settings: •  : Normal •  : Silent •  : Driving •  : Meeting •  : Outdoor •  : Offline •  : User created
	Battery power level

Access menu functions

Select an option	1. Press a desired soft key. 2. Press the Navigation keys to move to the next or previous option. 3. Press <**Select**> or [►II] to confirm the function displayed or option highlighted. 4. Press <**Back**> to move up one level. Press [☎] to return to Idle mode.
Use menu numbers	Press the number key corresponding to the option you want.

Enter text

Change the text input mode	• Press and hold [*] to switch between T9 mode and ABC mode. • Press [*] to change case or switch to Number mode. • Press and hold [#] to switch to Symbol mode.
ABC mode	To enter a word: Press the appropriate key until the character you want appears on the display.
T9 mode	To enter a word: 1. Press [**2**] to [**9**] to start entering a word. 2. Enter the whole word before editing or deleting characters. 3. When the word displays correctly, press [#] to insert a space. Otherwise, press [**0**] to display alternative word choices.
Number mode	Press the keys corresponding to the digits you want.

Symbol mode	Press the keys corresponding to the symbols you want.
Other operations	• Press [**1**] to enter punctuation marks or special characters. • Press [**#**] to insert a space. • Press the Navigation keys to move the cursor. • Press [**C**] to delete characters one by one. • Press and hold [**C**] to clear the entire display.

Customise your phone

Display language

1. In Idle mode, press <**Menu**> and select **Settings** → **Phone settings** → **Language**.
2. Select a language.

Call ringer melody

To change the profile properties:

1. In Idle mode, press <**Menu**> and select **Settings** → **Phone settings** → **Phone profiles**.
2. Scroll to the profile you are using.
3. Press <**Options**> and select **Edit**.

4. Select **Voice call ringtone**.
5. Press [Left] or [Right] to select a ringtone category.
6. Select a ringtone.
7. Press <**Options**> and select **Save profile**.

To change the sound profile:

1. In Idle mode, press <**Menu**> and select **Settings** → **Phone settings** → **Phone profiles**.
2. Select the profile you want.

Key tone volume

In Idle mode, press [Volume] to adjust the key tone volume.

Idle mode wallpaper

1. In Idle mode, press <**Menu**> and select **Settings** → **Display settings** → **Home screen** → **Wallpaper**.
2. Select an image category.
3. Select an image.
4. Press <**Select**> and then <**Save**>.

Themes for the display

1. In Idle mode, press <**Menu**> and select **Settings** → **Display settings** → **My theme**.
2. Select a colour pattern.

Menu shortcuts

1. In Idle mode, press <**Menu**> and select **Settings** → **Phone settings** → **Shortcuts**.
2. Select a key.
3. Select a menu to be assigned to the key.

Silent profile

You can activate the Silent profile to avoid disturbing other people. In Idle mode, press and hold [**#**].

Phone lock

1. In Idle mode, press <**Menu**> and select **Settings** → **Security settings** → **Phone lock**.
2. Select **On**.
3. Enter a new 4- to 8-digit password and press <**OK**>.
4. Enter the new password again and press <**OK**>.

Step outside the phone

Begin with call functions, camera, music player, web browser and other special features

Make or answer calls

Make a call

1. In Idle mode, enter an area code and phone number.
2. Press [ ].
   Press [Volume] to adjust the volume.
3. Press [ ] to end the call.

Answer a call

1. When the phone rings, open the phone. If the phone is already open, press [ ].
2. Press [ ] to end the call.

Use the speakerphone feature

During a call, press [►II] and then <**Yes**> to activate the speaker.

Press [►II] again to switch back to the earpiece.

Make a multi-party call

1. During a call, call the second participant.
   The first call is put on hold.
2. Press <**Options**> and select **Join**.
3. Repeat step 1 and 2 to add more participants.
4. During a multi-party call:
   - Press <**Options**> and select **Split** to have a private conversation with one participant.

- Press <**Options**> and select **Remove** to drop one participant.

5. Press [☎] to end the multi-party call.

Use the camera

Take a photo

1. In Idle mode, press and hold [📷] to turn on the camera.
2. Aim the lens at the subject and make any desired adjustments.
3. Press [▶II] to take a photo. The photo is saved automatically.
4. Press <**Back**> to take another photo.

View a photo

1. In Idle mode, press <**Menu**> and select **My files** → **Images** → **My photos**.
2. Select the photo you want.

Record a video

1. In Idle mode, press and hold [📷] to turn on the camera.
2. Press [**1**] to switch to Recording mode.

3. Press [►II] to start recording.
4. Press [►II] or <▣> to stop recording. The video is saved automatically.
5. Press <↩> to record another video.

View a video

1. In Idle mode, press <**Menu**> and select **My files** → **Videos** → **My video clips**.
2. Select the video you want.

Play music

Prepare music files

Use these methods:

- Download from the wireless web.
- Download from a computer using the optional Samsung PC Studio. See Samsung PC Studio User's Guide.
- Receive via Bluetooth.
- Copy to a memory card. See the next section.
- Synchronise music files with Windows Media Player. See p. 19.

- You cannot change the file format by editing the file name or extension.
- If the extension is different from the file format, the file will not be added to your playlist.

Copy music files to the phone

1. Insert a memory card into the phone.
2. In Idle mode, press <**Menu**> and select **Settings** → **Phone settings** → **PC connections** → **Mass storage**.
3. Connect your phone and PC with an optional PC data cable.
4. Select **Open folder to view files** when a pop-up window appears on your PC.
5. Copy files from the PC to the memory card.
6. When you have finished, disconnect the phone from the PC.

Synchronise with Windows Media Player

You can copy music files to the memory card by synchronising with Windows Media Player 11.

1. In Idle mode, press <**Menu**> and select **Settings** → **Phone settings** → **PC connections** → **Media player**.

2. Connect your phone and PC with an optional PC data cable.
3. Select **Sync digital media files to this device** when a pop-up window appears on your PC.
4. Enter the name of your phone and click **Finish**.
5. Select and drag the music files you want to the sync list.
6. Click **Start Sync**.
7. When synchronisation is finished, disconnect the phone from the PC.

Play music files

1. In Idle mode, press <**Menu**> and select **Music**.
2. Select a music category → a music file.
3. During playback, use the following keys:
   - ►II: pause or resume playback.
   - Left: restart playback. Press to return to the previous file within 3 seconds after the playback has started. Press and hold to scan backward in a file.
   - Right: skip to the next file. Press and hold to scan forward in a file.

- Up: open the playlist.
- Volume: adjust the volume.

4. Press [Down] to stop playback.

Create a playlist

You can create a playlist of your favourite music on a memory card.

1. From the music player screen, press <**Options**> and select **Open playlist** → **All** → **Playlists**.
2. Press <**Options**> and select **Create playlist**.
3. Enter the title of the playlist and press [►II].
4. Select the added playlist.
5. Press <**Options**> and select **Add** → a source.
6. Select a playlist, or select the files you want and press <**Add**>.
7. Press [►II] to play music.

Listen to the FM radio

Listen to the radio

1. Plug the connecter of the headset into the multi-function jack on the phone.
2. In Idle mode, press <**Menu**> and select **Applications** → **FM radio**.

3. Press [►II] to turn on the radio.
4. When you turn on the FM radio for the first time, press <**Yes**> to start automatic tuning.
   Available radio stations are automatically saved.
5. Press [Up] or [Down] to select a stored radio station.
   Alternatively, press [Left] or [Right] to find the radio station you want.
6. Press [►II] to turn off the radio.

Store radio stations

By automatic tuning:

1. From the radio screen, press <**Options**> and select **Self-tuning**.
2. Press <**Yes**> to confirm.
   Available radio stations are automatically saved.

By manual setup:

1. From the radio screen, press [Left] or [Right] to find the radio station you want.
2. Press <**Options**> and select **Add to Favourites**.

Browse the web

Launch the web browser

In Idle mode, press [▶II]. The homepage of your service provider opens.

Navigate the web

- To scroll through browser items, press [Up] or [Down].
- To select an item, press <✓> or [▶II].
- To return to the previous page, press <**Back**> or [**C**].
- To return to the homepage, press and hold [**C**].
- To access browser options, press <**Options**>.

Use Phonebook

Add a contact

1. In Idle mode, enter a phone number and press <**Options**>.
2. Select **Save** → a memory location → **New**.
3. For **Phone**, select a number type.
4. Specify contact information.
5. Press <**Save**> or [▶II] to save the contact.

Find a contact

1. In Idle mode, press <**Contacts**>.
2. Enter the first few letters of the name you want.

3. Select a contact.
4. Scroll to a number and press [↩] to dial, or press [▶II] to edit contact information.

Send messages

Send a text message

1. In Idle mode, press <**Menu**> and select **Messages** → **Create new message** → **Text message**.
2. Enter the message text.
3. Press <**Options**> and select **Send only** or **Save and send**.
4. Enter destination numbers.
5. Press [▶II] to send the message.

Send a multimedia message

1. In Idle mode, press <**Menu**> and select **Messages** → **Create new message** → **Multimedia message**.
2. Select **Subject**.
3. Enter the message subject and press [▶II].
4. Select **Image or video** and add an image or a video clip.
5. Select **Music or sound** and add a music or a sound clip.

6. Select **Text**.
7. Enter the message text and press [►II].
8. Press <**Options**> and select **Send**.
9. Enter destination numbers or email addresses.
10. Press [►II] to send the message.

Send an email

1. In Idle mode, press <**Menu**> and select **Messages** → **Create new message** → **Email**.
2. Select **Subject**.
3. Enter the email subject and press [►II].
4. Select **Message**.
5. Enter the email text and press [►II].
6. Select **File attach**.
7. Add image, video, sound, music, or document files.
8. Press <**Options**> and select **Send**.
9. Enter email addresses.
10. Press [►II] to send the email.

View messages

View a text message

1. In Idle mode, press <**Menu**> and select **Messages** → **My messages** → **Inbox**.
2. Select a text message.

View a multimedia message

1. In Idle mode, press <**Menu**> and select **Messages** → **My messages** → **Inbox**.
2. Select a multimedia message.

View an email

1. In Idle mode, press <**Menu**> and select **Messages** → **My messages** → **Email inbox**.
2. Select **Check new mail**.
3. Select an email or a header.
4. If you selected a header, press <**Options**> and select **Retrieve** to view the body of the email.

Use Bluetooth

Your phone is equipped with Bluetooth technology, enabling you to connect the phone wirelessly to other Bluetooth devices and exchange data with them, talk hands-free, or control the phone remotely.

Turn on Bluetooth

1. In Idle mode, press <**Menu**> and select **Applications** → **Bluetooth** → **Activation** → **On**.
2. Select **My phone's visibility** → **On** to allow other devices to locate your phone.

Search for and pair with a Bluetooth device

1. In Idle mode, press <**Menu**> and select **Applications** → **Bluetooth** → **My devices** → **Search new device**.
2. Select a device.
3. Enter a Bluetooth PIN or the other device's Bluetooth PIN, if it has one, and press <**OK**>.
4. When the owner of the other device enters the same code, pairing is complete.

Send data

1. Access an application, such as **Phonebook**, **My files**, **Calendar**, or **Memo**.
2. Select an item.
3. Press <**Options**> and select **Send via** → **Bluetooth**.

4. For sending a contact, select which data you want to send.
5. Search for and select a device.
6. If necessary, enter a Bluetooth PIN and press <**OK**>.

Receive data

1. If necessary, enter the Bluetooth PIN and press <**OK**>.
2. Press <**Yes**> to confirm that you are willing to receive.

Menu functions

All menu options listed

This section provides brief explanations of menu functions on your phone.

Call log

Menu	Description
Recent contacts, Missed calls, Dialled calls, Received calls	Check the most recent calls dialled, received, or missed.
Delete all	Delete all of the records in each call type.
Call manager → Call time	Check the time record for calls made and received.
Call manager → Call costs	Check the cost of your calls, if supported by your SIM card.
Call manager → Reject list	Make a list of the phone numbers of callers to reject.

Phonebook

Menu	Description
Contact list	Search for contact information stored in Phonebook.

Menu	Description
FDN contacts	Create a list of contacts to be used in FDN (Fixed Dialling Number) mode, in which the phone allows outgoing calls only to the specified phone numbers, if your SIM card supports this feature.
Create contact	Add a new contact to Phonebook.
Group	Organise your contacts in caller groups.
Speed dial	Assign a speed dial number for your most frequently dialled numbers.

Menu	Description
My namecard	Create a name card and send it to other people.
Own number	Check your phone numbers, or assign a name to each of the numbers.
Management	Manage contacts in Phonebook or change the default settings for Phonebook.
Service number	View the SDN (Service Dialling Number) list assigned by your service provider, if supported by your SIM card.

Music

Access and listen to all music files by criteria. You can also make your own music playlists.

Browser

Menu	Description
Home	Connect your phone to the network and load the homepage of the wireless web service provider.
Bookmarks	Save URL addresses in order to quickly access web pages.
Enter URL	Enter a URL address and access the associated web page.
Clear cache	Clear the cache, which is a temporary memory site that stores recently accessed web pages.
Profile settings	Set up connection profiles for the web browser.
Current profile	Select a connection profile to be used for accessing the wireless web.

Messages

Menu	Description
Create new message	Create and send text, multimedia, or email messages.
My messages	Access messages that you have received, sent, or that have failed during sending.
Templates	Make and use templates of frequently used messages or passages.
Delete by folder	Delete messages in each message folder all at once.
Settings	Set up various options for using the messaging services.
SOS messages	Specify options for sending and receiving an SOS message. You can send an SOS message by pressing [Volume] 4 times when the phone is closed and the exposed keys are locked.
Broadcast messages	Access the received broadcast messages or change the settings for receiving broadcast messages.
Memory status	Check information about the memory currently in use.

My files

Menu	Description
Images, Videos, Music, Sounds, Other files	Access media files and other files.
Games & more	Access the embedded Java games.
Memory card	Access the files stored on a memory card. This menu is only available when you insert a memory card into the phone.
Memory status	Check information about the memory currently in use.

Applications

Menu	Description
Alarms	Set a wake-up call to wake you up in the morning or an alarm to alert you to an event at a specific time.
Calendar	Keep track of your schedule.
Voice recorder	Record voice memos and any other sounds.
FM radio	Listen to music or news via the FM radio on your phone.
Image editor	Edit your photos using various editing tools.
Bluetooth	Connect the phone wirelessly to other Bluetooth devices.

Menu	Description
Memo	Make memos for things that are important and manage them.
World clock	Set your local time zone and find out the current time in another part of the world.
Calculator	Perform arithmetic functions.
Converter	Do conversions, such as length and temperature.
Timer	Set a period of time for the phone to count down.
Stopwatch	Measure elapsed time.

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

Camera

Use the camera embedded in your phone to take photos and record videos.

Settings

Menu	Description
Phone settings → Phone profiles	Change the sound settings of the phone for different events or situations.

Menu	Description
Phone settings → Language	Select a language for the display text.
Phone settings → Shortcuts	Use the Navigation keys as shortcuts to access specific menus directly from Idle mode. [Up] is fixed as a shortcut to My menu mode.
Phone settings → Time and date	Change the time and date displayed on your phone.
Phone settings → Volume key	Set how the phone reacts if you press and hold [Volume] when a call comes in.
Phone settings → Show caller information	Set the phone to display or block caller information on all missed calls and incoming messages.

Menu	Description
Phone settings → My menu	Set up a menu of your own using your favourite menu items, which can be easily accessed by pressing [Up] in Idle mode.
Phone settings → Slide settings	Set how the phone reacts when you open it for an incoming call, and when you close it while using a function.
Phone settings → PC connections	Select a USB mode that will be used when you connect your phone to another device via USB interface.
Light settings → Backlight time	Select the length of time the backlight or display stays on when the phone is not used.

Menu	Description
Light settings → Brightness	Adjust the brightness of the display for varying lighting conditions.
Light settings → Keypad light	Set how the phone controls the use of the keypad light.
Display settings → Home screen	Set up the idle screen on the main display.
Display settings → My theme	Select a skin colour pattern for Menu mode.
Display settings → Text display	Change the display settings for the text displayed on the idle screen.

Menu	Description
Display settings → Pop up list menu	Display the pop-up list that shows the menu options.
Display settings → Dialling display	Customise the settings for the display while dialling.
Display settings → Greeting message	Enter the greeting that is displayed briefly when the phone is switched on.
Display settings → Menu transition effect	Select a transition when you move between menus in Menu mode.

Menu	Description
Message settings	Set up various options for using the messaging services.
Call settings	Set options for call functions.
Phonebook settings → Speed dial	Assign speed dial numbers for your most frequently dialled numbers.
Phonebook settings → Save new contacts to	Select a default memory location for saving contacts.
Phonebook settings → Own number	Check your phone numbers, or assign a name to each of the numbers.

Menu	Description
Calendar settings → Starting day	Select which day of the week the calendar starts with.
Calendar settings → Default view by	Select the default calendar view mode.
Browser settings	Create and customise the profiles containing the settings for connecting your phone to the network.

Menu	Description
Music player settings/Media player settings	Depending on your service provider, you may have one of these menus: • **Music player settings**: change the default settings for playing music. • **Media player settings**: change the default settings for playing music. Also, select a connection profile for accessing a video streaming server.
Network settings → Select network	Select the network to be used while roaming outside of your home area, or let the network be chosen automatically.
Network settings → Network mode	Change to an appropriate band when you travel abroad.
Security settings → Phone lock	Activate your phone password to protect your phone against unauthorised use.
Security settings → SIM lock	Set the phone to work only with the current SIM card by assigning a SIM lock password.
Security settings → PIN lock	Activate your PIN to protect your SIM card against unauthorised use.

Menu	Description
Security settings → Privacy lock	Lock access to call logs, contacts, messages, or files.
Security settings → Fixed dialling mode	Set the phone to restrict calls to a limited set of phone numbers, if supported by your SIM card.
Security settings → Change password	Change the phone password.
Security settings → Change PIN code	Change the PIN.

Menu	Description
Security settings → Change PIN2 code	Change your current PIN2, if supported by your SIM card.
Security settings → Mobile tracker	Set the phone to send the preset tracking message to your family or friends when someone tries to use your phone with another SIM card. This feature may be unavailable due to certain features supported by your service provider.

Menu	Description
Setup wizard	Quickly customise basic settings of your phone. Select the option you want for each setting by following the onscreen instructions.
Memory settings	Change the settings related with the memory and check information about the memory currently in use. You can also clear the memory.
Reset settings	Reset the phone's settings you have changed.

Health and safety information

SAR certification information

This phone meets European Union (EU) requirements concerning exposure to radio waves.

Your mobile phone is a radio transmitter and receiver. It is designed and manufactured to not exceed the limits for exposure to radio-frequency (RF) energy, as recommended by the EU Council. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines were developed by independent scientific organisations through the periodic and thorough evaluation of scientific studies. The limits include a substantial safety margin designed to ensure the safety of all persons, regardless of age and health.

The exposure standard for mobile phones employs a unit of measurement known as Specific Absorption Rate (SAR). The SAR limit recommended by the EU Council is 2.0 W/kg.[1]

The highest SAR value for this model phone was 0.954 W/kg.

SAR tests are conducted using standard operating positions 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 base station, the lower the power output of the phone.

Before a new model phone is available for sale to the public, compliance with the European R&TTE Directive must be shown. This directive includes as one of its essential requirements the protection of the health and safety of the user and any other person.

1. The SAR limit for mobile phones used by the public is 2.0 watts/kilogram (W/kg) averaged over ten grams of body tissue. The limit incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in measurements. The SAR values may vary, depending on national reporting requirements and the network band.

Precautions when using batteries

- Never use a 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 service provider.
- Battery charging time depends on the remaining battery charge, the type of battery, and the charger used. The battery can be charged and discharged hundreds of times, but it will gradually wear out. When the operation 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. Disconnect the charger from the power source when it is not in use. 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 because the capacity and lifetime of the battery will be reduced. Try to keep the battery at room temperature. A phone with a hot or cold battery may not work temporarily, 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 like a coin, clip or pen causes a direct connection between the + and – terminals of the battery (metal strips on the battery). For example, do not carry a spare battery in a pocket or bag where the battery may contact metal objects. Short-circuiting the terminals may damage the battery or the object causing the short-circuiting.
- Dispose of used batteries in accordance with local regulations. Always recycle. Do not dispose of batteries in a fire.

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 you are driving a car, driving is your first responsibility. When using your wireless phone while driving, follow local regulations in the country or region you are in.

Operating environment

Remember to follow any special regulations in force in the area you are in, and always switch off your phone 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 (held to your ear with the antenna pointing over your shoulder).

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. If you have any reason to suspect that interference is taking place, switch off your phone 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 off your phone in health care facilities when regulations posted in these areas instruct you to do so.

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

Potentially explosive environments

Switch off your phone 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 off the phone while at a refuelling 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 the areas below decks 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 like medical emergencies.

To make or receive 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. Switch on the phone.
2. Key in the emergency number for your present location. Emergency numbers vary by location.
3. Press [ ].

Certain features like Call Barring may need to be deactivated before you can make an emergency call. Consult this document and your local cellular service provider.

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 installed or portable wireless equipment, in the area over the air bag or in the air bag deployment area. Improperly installed wireless equipment could result in serious injury if the air bag inflates.
- Switch off your phone before boarding an aircraft. It is dangerous and illegal to use wireless phones in an aircraft because they can interfere with the operation of the aircraft.
- Failure to observe these instructions may lead to the suspension or denial of telephone services to the offender, or legal action, or both.

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 your phone and all its parts and accessories out of the reach of small children and pets. They may accidentally damage these things or choke on small parts.
- Keep the phone dry. Precipitation, humidity, and liquids contain minerals that 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.
- 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, stove, or radiator. The phone may explode when overheated.
- When the phone or battery gets wet, the label indicating water damage inside the phone changes colour. 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. Unauthorised 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.

SAMSUNG ELECTRONICS

Declaration of Conformity (R&TTE)

We, **Samsung Electronics**

declare under our sole responsibility that the product

GSM Mobile Phone : SGH-E251

to which this declaration relates, is in conformity with the following standards and/or other normative documents.

SAFETY	**EN 60950- 1 : 2001 +A11:2004**
EMC	**EN 301 489- 01 V1.5.1 (11-2004)** **EN 301 489- 07 V1.2.1 (08-2002)** **EN 301 489- 17 V1.2.1 (08-2002)**
SAR	**EN 50360 : 2001** **EN 62209-1 : 2006**
RADIO	**EN 301 511 V9.0.2 (03-2003)** **EN 300 328 V1.7.1 (10-2006)**

We hereby declare that [all essential radio test suites have been carried out and that] the above named product is in conformity to all the essential requirements of Directive 1999/5/EC.

The conformity assessment procedure referred to in Article 10 and detailed in Annex[IV] of Directive 1999/5/EC has been followed with the involvement of the following Notified Body(ies):

BABT, Balfour House, Churchfield Road,
Walton-on-Thames, Surrey, KT12 2TD, UK*
Identification mark: 0168

The technical documentation kept at :

CE 0168

Samsung Electronics QA Lab.

which will be made available upon request.
(Representative in the EU)

Samsung Electronics Euro QA Lab.
Blackbushe Business Park, Saxony Way,
Yateley, Hampshire, GU46 6GG, UK*

2008.03.19 — **Yong-Sang Park / S. Manager**

(place and date of issue) — (name and signature of authorised person)

*** It is not the address of Samsung Service Centre. For the address or the phone number of Samsung Service Centre, see the warranty card or contact the retailer where you purchased your phone.**