



SGH-E428 User's Guide





Important safety precautions



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

Drive safely at all times

Do not use a hand-held phone while driving. Park the 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 the ear). Avoid unnecessary contact with the antenna when the phone is switched on.

Emergency call

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.

Use of authorised software

Use only Samsung-authorized software. The use of any unauthorised software could damage your phone.

Qualified service








Only qualified service personnel may repair your phone.

For more detailed safety information, see "Health and safety information" on page 82.

About this Guide

This User's Guide provides you with condensed information about how to use your phone. To quickly learn the basics for your phone, please refer to "Get started" and "Step outside the 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 can get more information on the referenced page.
-  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**
Use the camera module on your phone to take a photo.

Special features of your phone



- **Web browser**
Access the wireless web to get up-to-the minute information and a wide variety of media content.



- **Phonebook**
Store home, office, or cellular phone numbers for your contacts.



- **Multimedia Message Service (MMS)**
Send and receive MMS messages with a combination of text, images and audio.



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



- **Java**
Enjoy Java™-based embedded games and download new games.



- **Organiser**
Keep track of your daily, weekly, and monthly schedule.



- **Voice recorder**
Record memos or sounds.



- **Alarm**
Use your phone as an alarm clock to wake you up in the morning or notify you of an impending event.

Contents

Unpack 6

Make sure you have each item

Your phone 6

Keys, features, and locations

Get started 7

First steps to operating your phone

Install and charge the phone 7

Power on or off..... 9

Keys and display..... 9

Access menu functions 12

Customise your phone..... 13

Make/Answer calls 15

Step outside the phone 16

Begin with your camera, the web, and other special features

Use the camera 16

Browse the web 16

Use Phonebook 17

Send messages 18

View messages 20

Send an SOS message 21

Manage your schedule 22

Enter text 23

Pinyin, stroke, English, Quick English, Number, and Symbol modes

Call functions 28

Advanced calling features

Menu functions 33

All menu options listed

Solve problems 79

Help and personal needs

Health and safety information 82

Overview of menu functions

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

1 SIM-AT MENU	p.38	4 Sound settings (continued)		7 Organizer	p.63	9 Phone settings (continued)	
2 Call log	p.38	3 Power on/off	p.44	1 New memo	p.63	4 Security	p.76
1 Missed calls	p.38	4 Connection tone	p.44	2 Calendar	p.64	5 Auto redial	p.78
2 Received calls	p.39	5 Keypad tone	p.44	3 To do list	p.65	6 Voice clarity	p.78
3 Dialed calls	p.39	6 Minute minder	p.44	4 Clock	p.65	7 Anykey answer	p.78
4 Delete all	p.39	7 Silent mode	p.45	5 Alarm	p.66	8 Active folder	p.78
5 Call time	p.39	8 Alerts on call	p.45	6 Voice recorder	p.67	9 Volume key	p.78
6 Call costs ¹	p.40	5 Messages	p.45	7 Calculator	p.69	0 Reset settings	p.79
3 Network services	p.41	1 Short messages	p.45	8 Converter	p.69		
1 Call diverting	p.41	2 Multimedia	p.48	9 Timer	p.70		
2 Call barring	p.41	messages		0 Stopwatch	p.70		
3 Call waiting	p.42	3 Push messages	p.51	8 Camera	p.70	Phonebook	p.33
4 Network selection	p.42	4 Preset messages	p.52	1 Take photos	p.71	1 Find name	p.33
5 Caller ID	p.43	5 Voice mail	p.52	2 My photos	p.73	2 FDN list ¹	p.34
6 Band selection	p.43	6 SOS messages	p.53	3 Delete all	p.73	3 Add entry	p.34
7 Active line ¹	p.43	7 Broadcast	p.53	4 Group delete	p.73	4 Group search	p.35
4 Sound settings	p.43	8 Settings	p.54	5 Settings	p.74	5 Speed-dial list	p.35
1 Incoming calls	p.43	9 Memory status	p.56	6 Memory status	p.74	6 Information	p.36
2 Messages	p.44	6 Fun box	p.56	9 Phone settings	p.74	7 Own number	p.36
		1 WWW services	p.56	1 Display settings	p.74	8 Group setting	p.37
		2 Fun club	p.60	2 Greeting message	p.76	9 Management	p.37
		3 Media box	p.60	3 Language	p.76	0 Service directory ¹	p.38
		4 JAVA world	p.62				

Press <Phonebook> in Idle mode.

1. Shows only if supported by your SIM card.

Unpack

Make sure you have each item

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

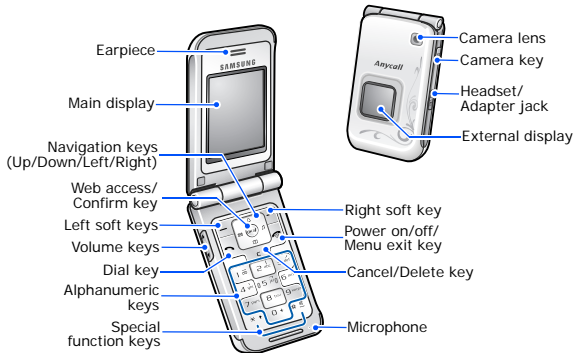
You can obtain various accessories from your local Samsung dealer.



- The items supplied with your phone and the accessories available at your Samsung dealer may vary, depending on your country or service provider.
- Use the purchased accessories with only Samsung-authorized devices. The use of these accessories with other devices could cause problems and any repair costs would not be covered by the warranty.

Your phone

Keys, features, and locations



Get started


First steps to operating your phone

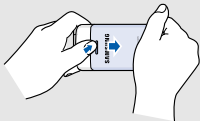
SIM card information

When you subscribe to a cellular network, you receive a plug-in SIM (Subscriber Identity Module) card loaded with your subscription details, such as your PIN, and available optional services.

Install and charge the phone

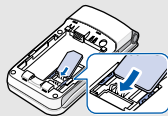
- 1 Remove the battery cover.

- ✓ If the phone is already on, first turn it off by pressing and holding [].



- 2 Insert the SIM card.

- ✓ Make sure that the gold-coloured contacts on the card are face down.



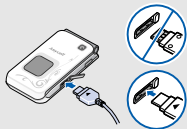
- 3 Install the battery.



- 4 Reattach the battery cover.



- 5 Plug the travel adapter into the phone.



- 6 Plug the adapter into a standard AC wall outlet.


- 7 When the phone is completely charged (the battery icon becomes still), unplug the adapter from the wall outlet.

- 8 Remove the adapter from the phone.



Low battery indicator


When the battery is low:

- a warning tone sounds,
- the battery low message displays, and
- the empty battery icon  blinks.

If the battery level becomes too low, the phone automatically turns off. Recharge your battery.


Power on or off

Switch on

1. Open the phone.
2. Press and hold [].
3. If necessary, enter the PIN and press <OK>.

Do not turn on the phone when mobile phone use is prohibited.

Switch off

1. Open the phone.
2. Press and hold [].

Keys and display

Keys



Perform the function indicated on the bottom line of the display.



In Idle mode, access the following menus directly:

- Up: **Alarm**
- Down: **Calendar**
- Left: **Create** in **Short messages**
- Right: **Default ring tones** and **My sounds** in **Incoming calls**

In Menu mode, scroll through menu options.



In Idle mode, access the **WWW services** or **Fun club** menu.

In Menu mode, select the highlighted menu options or confirm input.



Make or answer a call.
In Idle mode, retrieve numbers recently dialed, missed, or received.



Delete characters from the display.
In Menu mode, return to the previous menu level.
In Idle mode, enter the **New memo** menu when held down.



Press and hold to switch the phone on and 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 voicemail server. Press and hold [0] to enter an international call prefix.



Enter special characters.
In Idle mode, press and hold [#] to activate or deactivate Silent mode. Press and hold [*] to enter a pause between numbers.



Adjust the phone volume.
In Idle mode, with the phone open, adjust the key tone volume. With the phone closed, turn on the external display when held down.

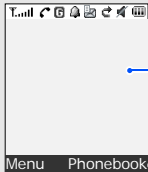


In Idle mode, press and hold to turn on the camera.

In Capture mode, take a photo.

Display

Layout











Icons
display various icons.

Text and graphics
display messages, instructions, and information you enter.

Soft key function indicators
show the current functions assigned to the soft keys.

Icons

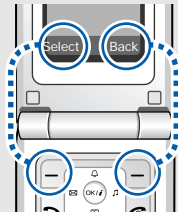
- Received signal strength
- Call in progress
- Out of your service area; you cannot send or receive calls
- SOS message feature active
▶ p. 53
- GPRS network
- Home Zone, if you have registered for the appropriate service
- Office Zone, if you have registered for the appropriate service
- Alarm set ▶ p. 66
- New SMS message

-  New MMS message
-  Call diverting feature active
▶ p. 41
-  Call ringer type ▶ p. 44
 -  None: Melody or Light only
 -  : Vibration
 -  : Vibration then melody
-  Silent mode
-  Battery power level

Access menu functions

Use the soft keys

The roles of the soft keys vary depending on the function you are using. The bottom line of the display indicates their current role.



Press the left soft key to select the highlighted option.

Press the right soft key to return to the previous menu level.

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 [OK/✓] to confirm the function displayed or option highlighted.
4. To exit, choose either of the following methods:
 - Press <**Back**> or [C] to move up one level.
 - Press [⏪] to return to Idle mode.

Use shortcuts

Press the number key corresponding to the option you want.

Customise your phone

Display language

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

Call ringer melody

1. In Idle mode, press <**Menu**> and select **Sound settings** → **Incoming calls**.
2. Select a ringtone category, **Default ring tones** or **My sounds**.

Call ringer melody
(continued)

3. Select a ringtone.
4. Press <Yes>.

Idle mode wallpaper

You can set wallpaper for the idle screen on the display.

1. In Idle mode, press <Menu> and select **Phone settings** → **Display settings** → **Wallpaper**.
2. Select an image category, **Default wallpapers**, **My photos**, or **Downloaded images**.
3. Select an image.
4. Press <Yes>.

Silent mode

You can switch the phone to Silent mode to avoid disturbing other people with your phone sounds.

Press and hold [#] in Idle mode.

Phone lock



You can protect the phone against unauthorised use with a phone password. The phone will require the password on power-up.

1. In Idle mode, press <Menu> and select **Phone settings** → **Security** → **Change password**.



-
2. Enter a new 4- to 8- digit password and press <OK>.
 3. Enter the new password again and press <OK>.
 4. Select **Phone lock**.
 5. Select **Enable**.
 6. Enter the password and press <OK>.

Make/Answer calls


Make a call

1. In Idle mode, enter an area code and phone number.
2. Press [].
3. To end the call, press [].

Answer a call

1. When the phone rings, press [].
2. To end the call, press [].

Adjust the volume during a call




Press [].

Step outside the phone

Begin with your camera, the web, and other special features

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 [/i] or [>] to take a photo. The photo is saved automatically.
4. Press [C] to take another photo.

View a photo

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


Browse the web

Using a built-in web browser, you can easily access the wireless web to get a variety of up-to-date services and information and to download web content.

Launch the web browser

In Idle mode, press [/i], and select **WWW services** or **Fun club**.

Navigate the web

- To scroll through browser items, press [Up] or [Down].
- To select an item, press <Select> or [OK/↵].
- To return to the previous page, press [C].
- To use options, select  on the top of the screen.
- To access other phone menus, press [#].

Use Phonebook

Add a contact

To the phone's memory:

1. In Idle mode, enter a phone number and press <Save>.
2. Select **Phone** → a number type.
3. Enter a name and press <OK> to save the contact.
4. To save additional information, press <Options> and select **Edit number**, press <Edit>, or press <Options> in each field.

Add a contact
(continued)

5. Enter a number or e-mail address, or select a ringtone or caller ID image.

6. Press <**OK**> or <**Save**>.

To the SIM card:

1. In Idle mode, enter a phone number and press <**Save**>.

2. Select **SIM** or **SIM (FDN)**.

3. Enter a name and press <**Save**>.

4. If necessary, change a location number.

5. Press <**Save**> to save the contact.

Find a contact

1. In Idle mode, press <**Phonebook**> and select **Find name**.

2. Enter the first few letters of the name you want.

3. Select a contact.

4. Press [] to dial.

Send messages

Send a text message (SMS)

1. In Idle mode, press <**Menu**> and select **Messages** → **Short messages** → **Create**.

2. Enter the message text.

3. Press [/i].

4. Select a destination field.

5. Enter a destination number and press <**OK**>.
6. Press <**Send**> to send the message.

Send a multimedia message (MMS)

1. In Idle mode, press <**Menu**> and select **Messages** → **Multimedia messages** → **Create**.
2. Select **Subject**.
3. Enter the message subject and press <**Save**>.
4. Select **Picture** and add an image file.
5. Select **Sound** and add a sound file.

6. Select **Message** and enter the message text.
7. When you have finished, press <**Opt.**> and select **Send**.
8. Select an empty location.
9. Select **Number** or **E-mail** and enter destination numbers or addresses. Press <**OK**>. Otherwise, select **Phonebook** to retrieve one from your Phonebook and press <**OK**>.
10. Press <**Send**> to send the message.

View messages

View a text message

When a notification appears:

1. Press <**View**>.
2. Select the message from the Inbox.

From the Inbox:

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

View a multimedia message

When a notification appears:

1. Press <**View**>.
2. Press <**Options**> and select **Retrieve**.
3. Select the message from the Inbox.

From the Inbox:

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

Send an SOS message

You can send an SOS message to your family or friends for help in an emergency.

Set up SOS message options

1. In Idle mode, press <Menu> and select **Messages** → **SOS messages**.
2. Select **Recipients**.
3. Select a destination field → **Edit number**.
4. Enter the phone number to which you want to send the SOS message and press <OK>.
5. Select **Change name**.
6. Enter a name and press <OK>.

7. Press <Back> twice to return to the SOS message screen.
8. Select **Message sending** → **On**.

Send the SOS message

In Idle mode, with the phone closed, press [▲/▼] 4 times.
The phone sends the SOS message.

Manage your schedule

Create a memo

1. In Idle mode, press and hold [C].
2. Enter the memo contents and press <Save>.
3. Select a memo type.
4. Select a date from the calendar.
5. For **Call**, enter a phone number you need to dial and press <OK>. For **Anniversary**, skip to step 7.
6. Enter the time for the memo and press <OK>.

-
7. Press <Yes> to set an alarm.
 8. Enter the time for the alarm to sound and press <OK>.
 9. Select an alarm tone. The memo is saved.

Access your schedule

-
1. In Idle mode, press [Down].
 2. Select a date.
 3. Press [Left] or [Right] to access the other items scheduled for the selected day.

Enter text

Pinyin, stroke, English, Quick English, Number, and Symbol modes

You can enter text in some features, such as Messages, Phonebook, or Calendar, by using Pinyin, and Stroke modes for Chinese, and Quick English and English modes for English. You can also enter numbers and symbols.

Changing the text input mode

- Press the right soft key and select the text input mode you want.

Pinyin (**PY**)

CHN S Stroke (**S STR**)

CHN T Stroke (**T STR**)

Number (**1 NUM**)

Symbolic (No indicator)

Quick English (**T9 ENG**)

English (**A ABC**)

- Press and hold [*****] to quickly switch to Symbol mode.

Using Chinese Pinyin mode

Pinyin is a system to enter Chinese words by spelling them phonetically (how they sound) using the Latin alphabet. With the Pinyin input method, you can enter Chinese characters by entering their Pinyin string using the phone's keypad.

Entering characters in Pinyin mode

1. Press the keys corresponding to the phonetic spelling of the character you want, referring to the letters printed on the keys.
2. Press [Left] or [Right] to select alternative pinyins for the keys you have pressed.
3. If you cannot find the character you want from the display, press [Up] or [Down] to scroll through the word choices.

- Press [1] to activate the character selection field.
A number, from 1 to 5, is added to each character.
- Press the number key corresponding to the character you want.

Other Pinyin mode operations

- Press [#] to insert a space.
- Press [Left] or [Right] to move the cursor.
- Press [C] to delete characters one by one.
- Press and hold [C] to clear the entire display.

Using Chinese Stroke mode

This mode allows you to enter individual Chinese strokes, in written order, from top to bottom, and from left to right.

The Chinese strokes are classified into five basic categories; heng, shu, pie, dian, and zhe. The basic strokes are printed on keys [1] to [5] on the keypad.

Refer to the following table:

Category	Key	Strokes in each category
—	1	— 丿
	2	丨
ノ	3	ノ ㇇ ㇈
丶	4	丶 丶 丶 丶
→	5	㇇ ㇈ ㇉ ㇊ ㇋ ㇌ ㇍ ㇎ ㇏ ㇐ ㇑ ㇒ ㇓ ㇔ ㇕ ㇖ ㇗ ㇘ ㇙ ㇚ ㇛ ㇜ ㇝ ㇞ ㇟

Entering strokes and characters in Stroke mode

1. Press the keys corresponding to a character's component strokes. Press keys in the order that you would write the strokes, using one press per stroke.

If you are uncertain of the stroke order, press [6] in place of each questionable stroke. Continue entering strokes until the character displays.

2. Press [Up] or [Down] to scroll through the choices.
3. Press the corresponding key, [7] to [0], to select a character and add it to your text.

Other Stroke mode operations

- Press [#] to insert a space.
- Press [Left] or [Right] to move the cursor.

- Press [C] to delete characters one by one. Press and hold [C] to clear the entire display.

Using English mode

Press the appropriate key until the character you want appears on the display.

To enter the same letter twice or to enter a different letter on the same key, wait for the cursor to move to the right automatically or press [Right]. Then, enter the next letter.

Other English mode operations

- Press [1] to enter special characters.
- Press [*] to change case. Initial capital, Capital lock, and Lower case are available.
- 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.

Using Quick English mode

T9 is a predictive text input mode that allows you to enter any character using single keystrokes.

Entering a word in Quick English mode

1. Press [2] to [9] to start entering a word.
Press each key once for each letter.
T9 predicts the word you are typing, and it may change with each key that you press.
2. Enter the whole word before editing or deleting characters.
3. When the word displays correctly, go to step 4. Otherwise, press [0] to display alternative

word choices for the keys that you have pressed.

4. Press [#] to insert a space and enter the next word.

Other Quick English operations

- Press [1] to enter periods or apostrophes automatically.
- Press [*] to change case. Initial capital, Capital lock, and Lower case are available.
- 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.

Adding a new word to the T9 dictionary

This feature may not be available for some languages.

1. Enter the word you want to add.
2. Press [**0**] to display alternative words for your key presses. When there are no more alternative words, **Spell** appears on the bottom line.
3. Press <**Spell**>.
4. Enter the word you want using English mode and press <**OK**>.

Using Number mode

Number mode enables you to enter numbers. Press the keys corresponding to the digits you want.

Using Symbol mode

Symbol mode enables you to insert symbols.

To	Press
display more symbols	[Up] or [Down].
select a symbol	the corresponding number key.
clear the entered symbols	[C].
insert the symbols	< OK >.

Call functions

Advanced calling features

Making a call

1. In Idle mode, enter the area code and phone number.



- Press [C] to clear the last digit or press and hold [C] to clear the whole display. You can move the cursor to edit an incorrect digit.
- Press and hold [*] to enter a pause between numbers.

2. Press [↵].
3. To end the call, press [☎].

Making an international call

1. In Idle mode, press and hold [0]. The + character appears.

2. Enter the country code, area code, and phone number, then press [↵].

Redialling recent numbers

1. In Idle mode, press [↵] to display the list of recent numbers.
2. Scroll to the number you want and press [↵].

Making a call from Phonebook

Once you have stored a number in Phonebook, you can dial the number by selecting it from Phonebook. ▶ p. 33

You can also use the speed dial feature to assign your most frequently called numbers to specific number keys. ▶ p. 35

You can quickly dial a number from the SIM card using its location number assigned when stored.

1. In Idle mode, enter a location number and press [#].
2. Scroll through other numbers, if necessary.
3. Press <Dial> or [↩] to dial the number you want.

Answering a call

When you receive a call, the phone rings and displays the incoming call image.

Press <Accept> or [↩] to answer the call.

Tips for answering a call

- When **Anykey answer** is active, you can press any key to answer a call, except for [⏏], right soft key and [▲/▼]. ▶ p. 78
- When **Active folder** is active, you can simply open the phone. ▶ p. 78
- Press [⏏] to reject a call.

- Press and hold [▲/▼] to reject a call or mute the ringer, depending on the **Volume key** setting. ▶ p. 78

Viewing missed calls

If you have missed calls, the screen displays how many calls you have missed.

1. Press <View>.
2. If necessary, scroll through the missed calls.
3. Press [↩] to dial the number you want.

Using the headset

Use the mono headset to make or answer calls without holding the phone.

Connect the headset to the jack on the right side of the phone. The button on the headset works as follows:

To	Press
redial the last call	and hold the button twice.
answer a call	and hold the button.
end a call	and hold the button.

Options during a call

You can access a number of functions during a call.


Adjusting the volume during a call

Use [▲/▼] to adjust the earpiece volume during a call.

Press [▲] to increase the volume level and [▼] to decrease the volume level.

Making a second call

You can make another call if your network supports this function.

1. Press <**Options**> and select **Hold** to put the call on hold.
2. Make the second call in the normal way.
3. Press <**Options**> and select **Swap** to switch between the calls.
4. Press <**Options**> and select **End held call** to end the call on hold.
5. To end the current call, press [].

Answering a second call

You can answer an incoming call while already on the phone, if your network supports this function and you have activated the call waiting feature. ► p. 42

1. Press [] to answer the call. The first call is automatically put on hold.
2. Press <**Options**> and select **Swap** to switch between the calls.
3. Press <**Options**> and select **End held call** to end the call on hold.
4. To end the current call, press [].

Using the speakerphone feature

Use your phone as a speaker phone to talk and listen with the phone a short distance away.

Press <**Spk. on**>, and then press <**Yes**> to activate the speakerphone feature. Press <**Spk. off**> to switch back to the earpiece.

Using In-call options

Press <**Options**> to access the following options during a call:

- **Hold:** place the current call on hold.
- **Swap:** switch between the current call and a call on hold during a multi-party call.
- **Join:** set up a multi-party call by adding a caller on hold to a currently active call. You can include up to 5 people on a multi-party call.
- **Whisper mode on/Whisper mode off:** turn on or off Whisper mode. Whisper mode automatically increases the microphone's sensitivity to allow the other person to hear your voice even though you may be whispering.
- **Split:** have a private conversation with one multi-party call participant. The other participants can converse with each other. After the private conversation, select **Join** to return both private participant to the multi-party call.
- **Transfer:** transfer the currently active call to a caller on hold. The two callers can talk

to each other, but you are disconnected from the call.

- **End held multiparty:** disconnect the call currently on hold.
- **Remove:** remove the selected participant.
- **Mute/Unmute:** switch off the phone's microphone so that the other person on the phone cannot hear you, or switch it back on.
- **New call:** make a new call.
- **Phonebook:** access the contact list.
- **Short message:** access SMS messages in the Inbox or Outbox. You can also create and send a new SMS message.
- **Mute keys/Send keys:** switch the key tones off or on.



To communicate with answering machines or computerised telephone systems, **Send keys** must be selected.

- **Send DTMF:** send the DTMF (Dual tone multi-frequency) tones as a group. The DTMF tones are the tones used in phones for tone dialling, sounding when you press the number keys. This option is helpful for entering a password or an account number when you call an automated system, like a banking service.
- **SIM AT:** access additional services provided by your SIM card, such as news, weather forecast, sports, entertainment, and location services. This option is available if you use a SIM card supporting SIM Application Toolkit menus.

Menu functions

All menu options listed

Phonebook


You can store phone numbers on your SIM card and in your phone's memory. The SIM card and phone's memory are physically separate, but they are used as a single entity called Phonebook.

To access this menu, press <**Phonebook**> in Idle mode.

Find name

Use this menu to search for numbers in Phonebook.

Finding a contact

1. Enter the first few letters of the name that you want to find.
2. Select the name from the list.
3. Scroll to a number and press [>] to dial.

Using Phonebook options

While viewing contact details, press <**Options**> to access the following options:

- **Edit number**: edit contact information.
- **Edit name**: change the contact name.
- **Send message**: send an SMS or MMS message to the selected number.
- **Assign speed dial**: set the number as a speed dial number.
- **Copy to Phone**: copy the selected number to the phone's memory.
- **Copy to SIM**: copy the selected number to the SIM card.

- **Copy to SIM (FDN):** copy the selected number to the FDN list.
- **Delete entry:** delete the contact.

FDN list

Use this menu to 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. This menu is available if your SIM card supports the FDN feature.

You can activate FDN mode in the **FDN mode** menu. ▶ p. 77

Adding a contact

1. In idle mode, press <**Phonebook**> and select **Add entry** → **SIM(FDN)**.
2. Enter your PIN2 supplied with your SIM card and press <**OK**>.

3. Enter a phone number and press <**Save**>.
4. Enter a name and press <**Save**>.
5. If necessary, change a location number.
6. Press <**Save**> to save the contact.

Using contact options

From the FDN list, you can access the same contact options as in Phonebook by pressing <**Options**>. ▶ p. 33

Add entry

Use this menu to add a new contact to Phonebook.

Storing a contact in the phone's memory

1. Select **Phone** → a number type.
2. Enter a phone number and press <**Save**>.

3. Enter a name and press **<OK>**.
4. To save additional information, press [Left] or [Right] to scroll to the field you want.
5. Enter information or change settings.
 - **Mobile/Home/Office/FAX/Other:** press **<Options>** and select **Edit number** and add a number in any category.
 - **E-Mail:** press **<Edit>** and assign an e-mail address.
 - **Note:** press **<Edit>** and add a memo about the person.
 - **Group:** press **<Options>** and assign the contact to a caller group.
 - **Graphic:** press **<Options>** and assign an image as a caller ID image to alert you to a call from the person.
 - **Alert:** press **<Options>** and assign a ringtone to alert you to a call from the person.
6. Press **<Select>** or **<Save>**.

Storing a contact on the SIM card

1. Select **SIM** or **SIM (FDN)**.
If you select **SIM(FDN)**, enter your PIN2 supplied with your SIM card and press **<OK>**.
2. Enter a phone number and press **<Save>**.
3. Enter a name and press **<Save>**.
4. If necessary, change a location number.
5. Press **<Save>** to save the contact.

Group search

Use this menu to check the members stored in a caller group.

Speed-dial list

Use this menu to assign speed dial numbers (2 to 9) for eight of your most frequently dialed numbers.

Assigning speed dial entries

1. Select a key location from [2] to [9]. Key [1] is reserved for your voicemail server.
2. Select **Edit number**.
3. Enter a phone number and press <**Save**>.

Managing speed dial entries

From the Speed-dial list screen, press <**Select**> to access the following options:

- **Edit number**: enter a number or assign a different number to a key.
- **Edit name**: change the contact name.
- **Delete**: clear the speed dial setting for a key.

Dialling speed dial numbers

In Idle mode, press and hold the appropriate key.

Information

Use this menu to find city and country codes.

1. Select **City code** or **Country code**.
2. Enter the first few letters of the city or country you want, or select the city, country, or province you want.

Own number

Use this feature to check your phone numbers or to assign a name to each of the numbers. Changes made here do not affect the actual subscriber numbers on your SIM card.

Group setting

Use this menu to change the properties of caller groups.

From each caller group, the following options are available:

- **Ring tone:** select a ringtone to alert you when a call comes in from a member of the group.
- **Edit name:** change the group name.
- **View image:** check the group ID image to alert you to a call from a member of the group.

Management

Use this menu to manage contacts stored in Phonebook.

Copy all to phone

Use this menu to copy all of the contacts stored on the SIM card to the phone's memory.

Delete all

Use this menu to delete all contacts stored on the SIM card or in the phone's memory.

1. Press <**Select**> to select the memory locations to be cleared.
2. Press <**Delete**>.
3. Press <**Yes**> to confirm the deletion.
4. For **All** or **SIM(FDN)**, enter the PIN2 code supplied with the SIM card and press <**OK**>. For **Phone** or **SIM**, enter the phone password and press <**OK**>.




You can set the phone's password the first time you access a menu requiring the password. You can change the phone's password. ► p. 77

Memory status

Use this menu to check the number of contacts you have stored in the phone's memory and on the SIM card.

Service directory

Use this menu to view the list of Service Dialling Numbers (SDN) assigned by your service provider, including emergency numbers and numbers for directory enquiries. This menu is available if your SIM card supports SDN.

Scroll to the number you want and press <Dial> or [].

SIM-AT MENU *(Menu 1)*

This menu is available if you use a SIM card that supports SIM Application Toolkit menus and provides additional services, such as news, weather, sports, entertainment, and location

services. Available services may vary, depending on your service provider's plans.

For details, see your SIM card instructions or contact your service provider.

Call log *(Menu 2)*

Use this menu to view the calls you have dialled, received, or missed, and the length of the calls. You can also check the cost of your calls, if your SIM card supports this function.

To access this menu, press <Menu> in Idle mode and select **Call log**.

Missed calls *(Menu 2.1)*

This menu displays the most recent calls that you did not answer.

Accessing a call record

1. Press [Up] or [Down] to scroll through the call list.
2. Press [OK/⌵] to view the details of a call, press [↶] to dial a number.

Using call record options

While viewing call details, press <Options> to access the following options:

- **Call back:** dial the selected number.
- **Send message:** send an SMS or MMS message to the selected number.
- **Edit:** edit the number.
- **Delete number:** delete the selected number.

Received calls *(Menu 2.2)*

This menu displays the most recent calls you have received.

Dialled calls *(Menu 2.3)*

This menu displays the most recent calls you have dialled.

Delete all *(Menu 2.4)*

Use this menu to delete all of the records in each call type.

1. Press <Select> to select the call types to be cleared.
2. Press <Delete>.
3. Press <Yes> to confirm the deletion.

Call time *(Menu 2.5)*

This menu displays the time log for calls made and received. The actual time invoiced by your service provider will vary.

- **Last call time:** check the length of your last call.

Menu functions

- **Total sent:** check the total length of all the calls you have dialled.
- **Total received:** check the total length of all the calls you have received.
- **Total call time:** check the total length of all the calls you have dialled and received.
- **Reset timers:** reset the call timers. You need to enter the phone password.



You can set the phone's password the first time you access a menu requiring the password. You can change the phone's password. ► p. 77

Call costs *(Menu 2.6)*

This network feature displays the cost of calls. This menu is available only if supported by your SIM card. Note that this is not intended to be used for billing purposes.

- **Last call cost:** check the cost of your last call.
- **Total cost:** check the total cost of all of your calls. If the total cost exceeds the maximum cost set in **Set max cost**, you must reset the counter before you can make another call.
- **Max cost:** check the maximum cost limit set in **Set max cost**.
- **Reset counters:** reset the cost counters.
- **Set max cost:** set the maximum cost authorised for your calls.
- **Price/Unit:** set the price per unit that is applied when the cost of your calls is calculated.

Network services *(Menu 3)*

Use this menu to access network services. Please contact your service provider to check their availability and subscribe to them, if you wish.

To access this menu, press <**Menu**> in Idle mode and select **Network services**.

Call diverting *(Menu 3.1)*

This network service reroutes incoming calls to a phone number that you specify.

1. Select a call diverting option:
 - **Divert always**: divert all calls.
 - **Busy**: divert calls when you are on another call.
 - **No reply**: divert calls when you do not answer the phone.

- **Unreachable**: divert calls when you are not in an area covered by your service provider or when your phone is switched off.
- **Cancel all**: cancel all call diverting options.

2. Select the type of calls to be diverted.
3. Press <**Activate**>. To deactivate call diverting, press <**Remove**>.
4. Enter the number to which calls are to be diverted and press <**OK**>.
5. If you selected **No reply**, select the length of time the network delays before diverting a call and press <**Select**>.

Call barring *(Menu 3.2)*

This network service allows you to restrict your calls.

1. Select a call barring option:

- **All outgoing:** prohibit all outgoing calls.
 - **International:** prohibit international calls.
 - **International except to home:** only allow calls to numbers within the current country when you are abroad, and to your home country.
 - **All incoming:** prohibit all incoming calls.
 - **Incoming while abroad:** prohibit incoming calls when you use your phone outside of your home service area.
 - **Cancel all:** cancel all call barring settings, allowing to be sent and received normally.
 - **Change barring password:** change the call barring password obtained from your service provider.
2. Select the type of calls to be barred.
 3. Press <**Activate**>. To deactivate call barring, press <**Deactivate**>.

4. Enter the call barring password supplied by your service provider and press <**OK**>.

Call waiting *(Menu 3.3)*

This network service informs you when someone is trying to reach you while you are on another call.

1. Select the type of calls to which the call waiting option will apply.
2. Press <**Activate**>. To deactivate call waiting, press <**Deactivate**>.

Network selection *(Menu 3.4)*

This network service allows you to manually select the network to be used while roaming outside of your home area, or to let the network be chosen automatically.

You can select a network other than your home network only if there is a valid roaming agreement between the two.

Caller ID *(Menu 3.5)*

This network service allows you to hide your phone number from the person you are calling.

If you select **Default**, the phone will use the default setting provided by the network.



Some networks may not allow you to change this setting.

Band selection *(Menu 3.6)*

For the phone to make and receive phone calls, it must register with an available network. Your phone can handle any of the following types of networks: GSM 1900, Combined GSM 900/1800, and Triple band (GSM 900/1800/1900).

The country where you purchased your phone determines the default band that it uses. When you travel abroad, you may need to change to an appropriate band.

Active line *(Menu 3.7)*

Some SIM cards may be used with two subscriber numbers. If your SIM card supports this function, use this menu to select the line that is used to make calls. Calls can be answered on both lines, regardless of the selected line.

Sound settings *(Menu 4)*

Use this menu to customise various sound settings, such as the call ringtone, message ringtone, and alert sounds to be used in various situations.

To access this menu, press **<Menu>** in Idle mode and select **Sound settings**.

Incoming calls *(Menu 4.1)*

Use this menu to change the sound settings for incoming calls.

Menu functions

- **Default ring tones:** select one of the default melodies to be used as your ringtone.
- **My sounds:** select a downloaded melody to be used as your ringtone.
- **Ring volume:** select a ringtone volume.
- **Alert type:** specify how you are to be informed of incoming calls.

Messages *(Menu 4.2)*

Use this menu to change the sound settings for incoming messages.

- **Tone:** select one of the several message tones.
- **Alert type:** specify how you are to be informed of incoming messages.
- **Repetition:** specify how often the phone informs you of a new message.

Power on/off *(Menu 4.3)*

Use this menu to turn on or off the melody that the phone sounds when it is switched on or off.

Connection tone *(Menu 4.4)*

Use this menu to set the phone to beep when an outgoing call is connected to the system.

Keypad tone *(Menu 4.5)*

Use this menu to select the tone that the phone sounds when you press a key.



You can adjust the key tone volume using [▲/▼] in Idle mode.

Minute minder *(Menu 4.6)*

Use this menu to set the phone to beep every minute during a call to keep you informed of the length of your call.

Silent mode *(Menu 4.7)*

Use this menu to set how the phone acts to alert you to a specific event while in Silent mode.

Alerts on call *(Menu 4.8)*

Use this menu to set the phone to beep when you receive a new message or when the time for an alarm comes during a call.

Messages *(Menu 5)*

Use the **Messages** menu to send and receive text messages or multimedia messages. You can also access push messages, voicemails, SOS messages, and broadcast messages.

To access this menu, press <**Menu**> in Idle mode and select **Messages**.

Short messages *(Menu 5.1)*

Short Message Service (SMS) allows you to send or receive text messages including pictures, audio clips, and animated images.

Create *(Menu 5.1.1)*

Use this menu to create and send an SMS message.

- You can quickly access this menu by pressing [Left] in Idle mode.

Creating and sending and SMS message

1. Enter your message and press [OK/⌂].

- The maximum number of characters allowed in a message varies by service provider. If your message exceeds the maximum number of characters, the phone will split the message.
- You can use various options by pressing <**Options**>. ▶ next section

2. Select a destination field.
3. Enter a destination number or press <OK>. To send the message to more than one recipient, fill in additional destination fields.
4. Press <Send> to send the message.

Using options while composing an SMS message

- **Send:** send the message.
- **Text:** change the text attributes.
- **Add media/Add emoticon:** add a picture, animated image, a melody, or emoticon into text.
- **Add from phonebook:** add a Phonebook entry.
- **Add from bookmarks:** add a bookmarked URL address to text.
- **Preset messages:** insert a text template into text.

- **Save message:** save the message in the **Outbox** folder.

Inbox (Menu 5.1.2)

Use this menu to access SMS messages you have received.

While viewing a message, press <Options> to access the following options:

- **Reply:** reply to the sender.
- **Reply and delete:** reply to the sender and delete the message from the Inbox.
- **Forward:** forward the message to other people.
- **Delete:** delete the message.
- **Call back:** dial the sender's phone number.
- **Transfer:** move the message between the SIM card and the phone's memory.

- **Cut address:** extract URL addresses, e-mail addresses, or phone numbers from the message.
- **Protection:** lock the message to prevent it from being deleted, or unlock the message.
- **Save Media:** save media items from the message to your phone's memory.
- **Register to blacklist:** add the sender's number to the block list to reject the messages from the sender.

Outbox *(Menu 5.1.3)*

Use this menu to access SMS messages you have sent or saved to send at a later time.

While viewing a message, press <**Options**> to access the following options:

- **Delete:** delete the message.
- **Cut address:** extract URL addresses, e-mail addresses, or phone numbers from the message.

- **Send:** send or resend the message.
- **Transfer:** move the message between the SIM card and the phone's memory.
- **Protection:** lock the message to prevent it from being deleted, or unlock the message.

Emoticon templates *(Menu 5.1.4)*

Your phone provides preset emoticons so that you can retrieve and insert them when composing an SMS message. Use this menu to create or edit emoticons.

Creating an emoticon

1. Select **My emoticons**.
2. Press <**Options**> and select **Add**.
3. Enter an emoticon and press <**OK**>.

Using emoticon options

From the **My emoticons** screen, press <**Options**> to access the following options:

- **Edit:** edit the emoticon.

Menu functions

- **Send:** create and send an SMS message using the emoticon.
- **Delete:** delete the emoticon.

Delete all (Menu 5.1.5)

Use this menu to delete all of your messages in each message box.

1. Press <**Select**> to select the message boxes to be cleared.
2. Press <**Delete**>.
3. Press <**Yes**> to confirm the deletion.

Group delete (Menu 5.1.6)

Use this menu to delete all messages in the Inbox or Outbox.

1. Select a message box.
2. Press <**Select**> to check the messages to be deleted.
3. Press <**OK**>.

4. Press <**Yes**> to confirm the deletion.

Multimedia messages (Menu 5.2)

Multimedia Message Service (MMS) delivers messages containing a combination of text, image, and audio from phone to phone or from phone to e-mail.

Create (Menu 5.2.1)

Use this menu to create and send an MMS message.

Creating and sending and MMS message

1. Select the **Subject** line.



You can use various options by pressing <**Options**>. ► next section

2. Enter the message subject and press <**Save**>.

3. Select the **Picture** or **Sound** line and add an image or sound file.



- The maximum size allowed for a message can differ, depending on your service provider.
- Depending on the file type or DRM (Digital Rights Management) system, some files may not be able to be forwarded.

4. Select the **Message** line and enter the message text.
5. Press <**Opt.**> and select **Send**.
6. Select an empty destination field.
7. Select **Number** or **E-mail** to enter a phone number or e-mail address. Otherwise, select **Phonebook** to select one from your Phonebook.
To send the message to more than one recipient, fill in additional destination field.
8. Press <**Send**> to send the message.



Using options while composing an MMS message

Press <**Opt.**> to access the following options:

- **Preview:** view the message as it will be shown on the recipient's phone.
- **Send:** send the message.
- **Add page:** add pages. Move to each page by pressing [Left] or [Right] on the message screen.
- **Page timing:** change the duration of page display. After the specified time, the display automatically scrolls to the next page.
- **Text effect:** change the text attributes.
- **Clear subject/Clear picture/Clear sound/Clear message:** remove an added item.
- **Delete page:** delete a page.
- **Save message:** save the message in another message folder.

Inbox (Menu 5.2.2)

Use this menu to access MMS messages that you have received. The following icons may appear on the message list to show the message status:

-  MMS notification
-  MMS message

While viewing a message, press <**Opt.**> to access the following options:






- **Delete**: delete the message.
- **Replay**: replay the message.
- **Reply**: reply to the sender.
- **Reply all**: send a reply to the sender and all other recipients.
- **Forward**: forward the message to other people.
- **Call back**: dial the sender's phone number.
- **Cut Media**: save media items from the message to your phone's memory.

- **Cut address**: extract URL addresses, e-mail addresses, or phone numbers from the message.
- **Properties**: access the message properties.
- **Move to My folder**: move the message to the **My folder** folder.

Outbox (Menu 5.2.3)

Use this menu to access MMS messages that the phone has sent or has failed to send.

The following icons are available to show the message status:

-  currently being sent
-  sent
-  retry sending
-  sending failed
-  opened by the recipient

While viewing a message, press <**Opt.**> to access the following options:

- **Delete:** delete the message.
- **Replay:** replay the message.
- **Send:** resend the message.
- **Properties:** access the message properties.
- **Move to My folder:** move the message to the **My folder** folder.

Draft (Menu 5.2.4)

Use this menu to access MMS messages you have saved to send at a later time.

While viewing a message, press <**Opt.**> to access the following options:

- **Send:** send the message.
- **Replay:** replay the message.
- **Delete:** delete the message.
- **Properties:** access the message properties.

My folder (Menu 5.2.5)

Use this menu to view the messages you have moved to this folder using the **Move to My folder** option while viewing a message.

Delete all (Menu 5.2.6)

Use this menu to delete all of the messages in each message box.

1. Press <**Select**> to select the message boxes to be cleared.
2. Press <**Delete**>.
3. Press <**Yes**> to confirm the deletion.

Push messages (Menu 5.3)

Use this menu to access messages received from the web server.

- **Inbox:** access push messages you have received.

Menu functions

- **Setting:** determine whether or not your phone receives push messages.
Always: the phone receives push messages.
Never: the phone rejects push messages.
Optional: the phone receives push messages from the specified web server.
- **Delete all:** delete all of the push messages.

Presets messages *(Menu 5.4)*

Use this menu to make text templates of frequently used messages so that you can retrieve and insert them when composing a message.

Creating a template

1. Select an empty location.
2. Select **Edit**.
3. Enter a message and press **<Save>**.

Using template options

From the Preset message screen, press **<Select>** to access the following options:

- **Edit:** edit the template.
- **Send message:** send the template via SMS or MMS.
- **Delete:** delete the template.

Voice mail *(Menu 5.5)*

Use this menu to set the number of the voicemail server and access your voicemails.



You must enter the voicemail server number before accessing the server. Your service provider can give you the number.



- **Connect to voice mail:** connect to the voicemail server to allow you to listen to your messages.
- **Voice server number:** change or delete the voicemail server name and number.

SOS messages (Menu 5.6)

In an emergency, you can send an SOS message to your family or friends for help. You can also receive an SOS message from other people who are in an emergency. Use this menu to specify options for sending and receiving an SOS message.

- **Message sending:** activate or deactivate the SOS message feature. To send an SOS message, press [▲/▼] 4 times in Idle mode, with the phone closed.



While the phone is attempting to send an SOS message,  turns to red and you cannot access menu functions in this mode. To use the phone as normal, press [@] when the icon turns to blue.

- **Recipients:** specify the phone numbers to which you want to send an SOS message.
- **Repeat sending:** set the number of times the phone resends the SOS message.

- **Incoming SOS alert:** set whether or not the phone uses the preset alert type (siren and alert message) for incoming SOS messages. If you select **Off**, the phone uses the message ringer setting.
- **Text:** check the preset SOS message text.
- **Help:** view the onscreen help.

Broadcast (Menu 5.7)

The Cell Broadcast (CB) service delivers SMS messages on various topics, such as the weather or traffic.

Use this menu to change the settings for the service and to access broadcast messages.

- **Read:** access broadcast messages you have received.

The **Temporary** box saves network messages until the phone is switched off. Press <**Options**> and select **Save** when a text notification appears to save to the **Archive** box.

The **Archive** box saves network messages indefinitely.

- **Receive:** select to receive broadcast messages, or not.
- **Channel:** indicate the channels from which you wish to receive broadcast messages. Please contact your service provider for further details.
- **Language:** select the preferred languages in which broadcast messages display.

Settings *(Menu 5.8)*

Use this menu to set up various options for using messaging services.

Short messages *(Menu 5.8.1)*

You can configure default SMS settings.

- **Service centre:** store or change the number of your SMS server.

- **Validity period:** set the length of time your messages are stored in the SMS server.
- **Message type:** set the default message type. The network can convert the messages into the selected format.
- **Reply path:** allow recipients to reply to you through your SMS server.
- **Delivery report:** set the network to inform you when your messages have been delivered.
- **Set blacklist:** specify phone numbers from which you want to reject messages and activate the message blocking feature.

Multimedia messages *(Menu 5.8.2)*

You can configure default MMS settings.

- **Send settings:** set up the options for sending MMS messages:
 - Priority:** set the priority level of messages.

Validity period: set the length of time messages are stored in the MMS server.

Delivery after: set a time delay before messages are sent.

Address hiding: set your address to be hidden from the recipient's phone.

Delivery report: set the network to inform you when your messages have been delivered.

Read reply: send a read-reply request along with your messages.

- **Receive settings:** set up the options for receiving MMS messages.

Msg. reception: set how you receive a message.

- **Manual:** the phone downloads new messages from the MMS server by using the **Retrieve** option.
- **Automatic:** the phone automatically downloads new messages from the MMS server.

- **Reject:** the phone rejects new messages.

Anonymous reject: reject messages from unknown senders.

Adverts reject: reject advertisements.

Report allowed: set the network to inform the sender when a message has been delivered to you.

- **MMS profiles:** configure required network settings for MMS.



Check with your service provider before you change any MMS settings on your phone.

Current profile: select a profile.

Profile setting: customise the options for each profile:

- **Profile name:** assign a name to the MMS profile.
- **Server URL:** enter the address of your MMS server.

- **Proxy use:** activate or deactivate the proxy server.
- **GPRS setting:** customise the settings required for connecting to the GPRS network.

When **Proxy use** is set to **Enable**:

IP address: enter the gateway address.

IP port: enter the port number.

APN: enter the access point name of the GPRS network gateway.

Login ID: enter the user ID.

Password: enter the password.

When **Proxy use** is set to **Disable**:

DNS1: enter the primary DNS address.

DNS2: enter the secondary DNS address.

APN: enter the access point name of the GPRS network gateway.

Login ID: enter the user ID.

Password: enter the password.

Memory status *(Menu 5.9)*

Use this menu to access memory information for SMS and MMS messages.

Fun box *(Menu 6)*

The **Fun box** menu allows you to use the web browser, play Java games and access images and sounds stored in the phone's memory.

To access this menu, press <**Menu**> in Idle mode and select **Fun box**.

WWW services *(Menu 6.1)*

The Wireless Application Protocol (WAP) browser on your phone allows you to access the wireless web. From the wireless web, you can access up-to-date information and a wide variety of media content, such as games, wallpapers, and ringtones. You can also press [OK/⌂] in Idle mode.


Home (Menu 6.1.1)

Use this menu to connect your phone to the network and load the homepage of the wireless web service provider.

Navigating the web browser

To	Press
scroll through browser items	[Up] or [Down].
select a browser item	< Select > or [OK/ <i>i</i>].
return to the previous page	[C].

Using browser options

From any web, select  on the top of the screen to access the following options:

- **Back:** return to the previous page.
- **Home:** return to the homepage.


- **Exit:** exit the web browser.
- **Reload:** reload the current page with updated information.
- **Show URL:** display the URL address of the current web page. You can also set the current page as the homepage for the web browser.
- **About ...:** access version and copyright information about the browser.

Accessing other phone menus

From any web page, press [#] to access the following options:

- **Go to URL:** enter a URL address manually.
- **Bookmarks:** switch to the **Bookmarks** menu.
- **Messages:** access SMS messages stored in the phone memory. You can also create and send a new SMS message.
- **Media box:** switch to the **Media box** menu.

Exiting the web browser

Press [] to end the network connection and exit the browser.

Bookmarks *(Menu 6.1.2)*

Use this menu to save URL addresses in order to quickly access web pages.

Adding a bookmark

1. Select an empty location.
2. Enter a URL address and press <**Save**>.
3. Enter a title for the bookmark and press <**OK**>.

Using bookmark options

After saving an item, press <**Select**> to access the following options:

- **Go**: access the bookmarked web page.
- **Edit**: edit the URL address and title of the bookmark.

- **Delete**: delete the bookmark.

Go to URL *(Menu 6.1.3)*

Use this menu to manually enter a URL address and access the associated web page.

Clear cache *(Menu 6.1.4)*

Use this menu to clear the cache. A cache is a temporary memory that stores recently accessed web pages.

Proxy settings *(Menu 6.1.5)*

Use this menu to set up connection profiles to be used for the web browser. The profile accessed last is automatically activated for accessing the wireless web.

- Check with your service provider before you change any browser settings on your phone.

For each server, set the following parameters:

- **Profile name:** enter a profile name.
- **Home URL:** enter the URL address of the page to be used as your homepage.
- **Bearer:** select the network bearer type.
- **Proxy use:** activate or deactivate the proxy server.
- **GPRS setting:** customise the following GPRS network settings:

*When **Proxy use** is set to **Enable**:*

IP address: enter the IP address of the proxy server.

IP port: enter the port number.

APN: enter the access point name of the GPRS network gateway.

Login ID: enter the user ID.

Password: enter the password.

*When **Proxy use** is set to **Disable**:*

DNS1: enter the primary DNS address.

DNS2: enter the secondary DNS address.

APN: enter the access point name of the GPRS network gateway.

Login ID: enter the user ID.

Password: enter the password.

- **GSM setting:** customise the following GSM network settings:

*When **Proxy use** is set to **Enable**:*

IP address: enter the IP address of the proxy server.

IP port: enter the port number.

Dial number: enter the PPP phone number.

Login ID: enter the user ID.

Password: enter the password.

Data call type: select a call type for data transmission.

*When **Proxy use** is set to **Disable**:*

DNS1: enter the primary DNS address.

DNS2: enter the secondary DNS address.

Dial Number: enter the PPP phone number.

Login ID: enter the user ID.

Password: enter the password.

Data call type: select a call type for data transmission.

Current proxy *(Menu 6.1.6)*

Use this menu to activate one of the proxy servers you have set up.

Fun club *(Menu 6.2)*

Use this menu to access Samsung Fun Club, the preset website providing Samsung mobile phone users with attractive download services of up-to-date ringtones and wallpapers.

SFC home

Selecting this menu loads the Samsung Fun Club homepage.

Service area

Each time you go to China or Hong Kong, you need to change this setting to use the SFC service, according to the area where you are.

Media box *(Menu 6.3)*

Use this menu to access images, voice memos, and sound clips stored in your phone's memory.

My photos *(Menu 6.3.1)*

Use this menu to access photos you have taken. While viewing a file, press **<Options>** to access the following options:

- **Send:** send the file via MMS.
- **Rename:** change the file name.
- **Delete:** delete the file.
- **Set as:** set the image as wallpaper for the idle screen or as a caller ID image for a Phonebook entry.

- **Protection:** lock the file to prevent it from being deleted, or unlock the file.
- **Properties:** access the file properties.

Downloaded images *(Menu 6.3.2)*

Use this menu to access images you have downloaded from the wireless web or received in messages.

While reviewing a file, press <**Opt.**> to access the following options:

- **Send:** send the file via MMS.
- **Set as wallpaper:** set the image as wallpaper for the idle screen.
- **Rename:** change the file name.
- **Delete:** delete the file.
- **Properties:** access the file properties.

Sounds *(Menu 6.3.3)*

Use this menu to access voice memos you have recorded, or sound clips you have downloaded from the wireless web or received in messages.

While reviewing a file, press <**Options**> to access the following options:

- **Send:** send the file via MMS.
- **Set as ring tone:** set the sound file as your ringtone.



Your phone does not support *.amr, *.mmf and *.imy files for use as ringtone.

- **Rename:** change the file name.
- **Delete:** delete the file.
- **Properties:** access the file properties.

Delete all *(Menu 6.3.4)*

Use this menu to delete all media items in each media box.

Group delete (Menu 6.3.5)

Use this menu to delete unwanted items from each media box.

Memory status (Menu 6.3.6)

Use this menu to check the total amount of memory for the items you have added and the amount of memory currently in use in the phone's system. You can also check the amount of memory used for stored MMS message.

JAVA world (Menu 6.4)

Use this menu to access and play Java games and to change the network settings required for accessing the Java server.

Downloads (Menu 6.4.1)

Use this menu to access the embedded Java games or downloaded Java applications.

Accessing an embedded game

Select a game from the game list and follow the onscreen instructions. The procedure may differ from game to game.

Using Java application options

From the application list, press <**Options**> to access the following options:

- **Launch:** launch the selected application.
- **Delete:** delete the selected application.
- **Properties:** access the application properties.

Internet settings (Menu 6.4.2)

Use this menu to set up the network settings required for accessing the Java server.

- **APN:** enter the access point name.
- **Login ID:** enter the user ID.
- **Password:** enter the password.
- **DNS settings:** enter a DNS address.

Memory status *(Menu 6.4.3)*

Use this menu to check the total amount of memory for the items you have added and the amount of memory currently in use in the phone's system. You can also check the amount of memory used for stored MMS message.

Organizer *(Menu 7)*

The **Organizer** feature enables you to keep track of your schedule, make a list of tasks, or set alarms. You can also use the phone as a voice recorder, world clock, calculator, converter, timer, and stopwatch.

To access this menu, press <**Menu**> in Idle mode and select **Organizer**.

New memo *(Menu 7.1)*

Use this menu to create a new item.



You can quickly access this menu by pressing and holding [**C**] in Idle mode.

1. Enter the content and press <**Save**>.
2. Select an item type.
3. Select a date on the calendar.
 - Press [Left] or [Right] to move by day.
 - Press [Up] or [Down] to move by week.
 - Press [**▲/▼**] to move by month.
 - Press and hold [Left] or [Right] to move by year.
4. For **Call**, enter a phone number you need to dial and press <**OK**>. For **Anniversary**, skip to step 6.
5. Enter the time for the item and press <**OK**>.
6. Press <**Yes**> to set an alarm.
7. Enter the time for the alarm to sound and press <**OK**>.
8. Select an alarm tone.

Calendar (Menu 7.2)

Use this menu to keep track of your monthly schedule.

Selecting a day on the calendar




When you access this menu, the calendar in Month view appears with today's date indicated by a blue box.

- Press [Left] or [Right] to move by day.
- Press [Up] or [Down] to move by week.
- Press [▲/▼] to move by month.
- Press and hold [Left] or [Right] to move by year.

Consulting the calendar

Once you have created items, the following icons and the number of items for a specific day appear at the bottom of the calendar.

-  Scheduled items

-  Tasks
-  Calls
-  Anniversaries

1. Select a date on the calendar to display the items for the day.
2. Press [Left] or [Right] to access the other items scheduled for the selected day.

While viewing an item, press <**Opt.**> to access the following options:

- **Add:** add a new item.
- **Delete:** delete the item.
- **Edit:** edit the item.
- **Move:** move the item to a different date.
- **Copy:** copy the item to a different date.

Using calendar options

On the calendar, press <**Options**> to access the following options:



- **Add Memo:** add a new item.

- **Go to Date:** enter the date you want to access.
- **View all:** view all items stored on the calendar. Press [Left] or [Right] to scroll through the items.
- **Delete day:** delete the items stored for the currently selected date.
- **Delete all:** delete all items on the calendar.

To do list (Menu 7.3)

Use this menu to access tasks you have created on the calendar.

The following icons on the list indicate the task status:

-  Uncompleted task
-  Completed task

While viewing a task, press <**Opt.**> to access the following options:

- **Add:** add a new task.

- **Mark:** change the task status.
- **Edit:** edit the task.
- **Move:** move the task to another date.
- **Copy:** copy the task to another date.
- **Delete:** delete the task.
- **Delete all:** delete all tasks.

Clock (Menu 7.4)

Use this menu to change the time and date displayed on your phone.

- **Set time:** enter the current time.
- **Set date:** enter the current date.
- **Set world time:** set your local time zone and find out what time it is in another part of the world.



To apply daylight saving time to time zones, press <**Options**> and select **Set DST**.

- **Set format:** select a time and date format.

- **Auto update:** activate the auto time update feature. Your phone will read the MCC (Mobile Country Code) from the network and automatically update the current time for the country that you are in when you travel abroad.

Time information may not be updated when you move to one time zone to another within a country.

Alarm (Menu 7.5)

Use this menu to set alarms. The alert type for a normal alarm corresponds to the call alert type settings. A wake-up alarm is not affected by your sound profiles.

Setting an alarm

1. Select the type of alarm.
2. Press <**Options**> and select **Alarm Day**.
3. Press <**Select**> to select the days on which the alarm sounds and press <**Save**>.
4. Enter the time for the alarm to sound and press <**OK**>.
5. Press <**Options**> and select **Alarm Tone**.
6. Select an alarm tone.

Stopping an alarm

- For a non-wake-up alarm, press any key.
- For a wake-up alarm, press <**Confirm**> or [OK/⏏].
Press <**Snooze**> to cause it to sound again after 5 minutes. You can do this a maximum of 5 times.

Deactivating an alarm

1. Select the alarm you want to deactivate.
2. Press <**Options**> and select **Remove alarm**.

Setting alarms to sound when the phone is off

From the Alarm screen, select **Auto power** → **On**.




If the phone is off when it is time for the alarm to sound, the phone switches on and sounds the alarm.



Voice recorder *(Menu 7.6)*

Use this menu to record voice memos and review them.

Record *(Menu 7.6.1)*

Use this menu to record a voice memo.


1. Select  or [OK/⌂] to start recording.
2. Speak into the microphone.
 - Select  to pause the recording.
 - Select  to resume the recording.

3. When you have finished, select . The voice memo is automatically saved.
4. Select  to review the voice memo.

Voices *(Menu 7.6.2)*




Use this menu to access the list of voice memos you have recorded.



Playing a voice memo

1. From the list, select a voice memo.
2. Select  to play the voice memo.

During playback:

- Use the following buttons on the display:

Buttons	Function
	Pauses playback.
	Resumes playback.
	Moves backward.

Buttons	Function
	Moves forward in a file.
	Stops playback in a file.

- Press [Up] or [Down], or [▲/▼] to adjust the volume.

Using voice memo options

While playing a file, press <Options> to access the following options:

- **Send:** send the file via MMS.
- **Rename:** change the file name.
- **Delete:** delete the file.
- **Properties:** access the file properties.

Delete all (Menu 7.6.3)

Use this menu to delete all voice memos in the phone's memory.

Group delete (Menu 7.6.4)

Use this menu to delete the voice memos you want.

Settings (Menu 7.6.5)

Use this menu to configure settings for recording voice memos:

- **Recording time:** select a voice recording mode.
Normal: you can record a voice memo within the limit of the currently available memory.
Limit size(for MMS): you can record a voice memo for adding to an MMS message.
- **Volume:** select a volume level for recording a voice memo.
- **Default name:** change the default prefix for file names.

Memory status *(Menu 7.6.6)*

Use this menu to check the total amount of memory for the items you have added and the amount of memory currently in use in the phone's system. You can also check the amount of memory used for stored MMS message.

Calculator *(Menu 7.7)*

Use this menu to perform basic arithmetic functions such as addition, subtraction, multiplication, and division.

1. Enter the first number.
Press [*****] to insert a decimal point or press [**#**] until a bracket displays.
2. Press [**#**] to select the math function you want.
3. Enter the second number.
4. Press <**OK**> to view the result.

5. If necessary, repeat from step 2 to confirm the calculation.

Converter *(Menu 7.8)*

Use this menu for common conversions, such as temperature.

1. Select a converter.
2. Enter the value to be converted and press [Down].
 - Press [*****] to insert a decimal point.
 - Press [**#**] to change the temperature to above zero or below zero (-).
3. Press [Left] or [Right] to select the original unit and press [Down].
4. Press [Left] or [Right] to select the unit to which you want to convert.
5. Press <**OK**>. The equivalent value for the amount you entered displays.

Timer (Menu 7.9)

Use this menu to set a period of time for the phone to count down. The phone will sound an alarm when the specified period of time has expired.

Starting the timer

1. Press <**Set**>.
2. Enter the length of time you want to count down and press <**OK**>.
3. Press <**Start**> to start counting down.

Stopping the timer

- Press any key to stop the timer when it sounds.
- Press <**Stop**> on the timer screen to stop the timer before it sounds.

Stopwatch (Menu 7.0)

Use this menu to measure elapsed time. The maximum measurement time is 10 hours.

1. Press <**OK**> to start the timer.
2. Press <**OK**> to check an interval. You can repeat this step for a total of 4 intervals.

Camera (Menu 8)

You can use the camera module embedded in your phone to take photos.

To access this menu, press <**Menu**> in Idle mode and select **Camera**.





- Do not take photos of people without their permission.
- Do not take photos in a place where cameras are not allowed.
- Do not take photos in a place where you may interfere with another person's privacy.



Take photos (Menu 8.1)

You can take photos in various modes. The camera produces jpeg photos.


- ☑ When you take a photo in direct sunlight or in bright conditions, shadows may appear on the photo.

Taking a photo with the phone open

1. Access the **Take photos** menu to turn on the camera and switch the phone to Capture mode. You can also press and hold [] in Idle mode.
2. Make any desired adjustments.
 - Press <> to use camera options.
 - ▶ p. 71
 - Use the keypad to change the camera settings or switch to other modes.
 - ▶ p. 72

3. Press [] or [] to take a photo. The photo is saved in the **My photos** folder.
4. Press <**Options**> to access photo options.
 - ▶ p. 73.
 - Press [**C**] to return to Capture mode.

Using camera options in Capture mode

In Capture mode, press <> to access the following options:

- **Mode:** take a photo in the following modes:
 - Normal shot:** take a photo in Normal mode.
 - Night mode:** take a high quality photo in low lighting conditions.
 - Capture only:** set the phone to automatically return to Capture mode after taking a photo.
- **Effects:** change the colour tone or apply a special effect.

Menu functions

- **Rotation:** show the mirror image or flip the image vertically.
- **Timer:** set a time delay before the camera takes a photo.
- **Settings:** change the default settings for taking photos. ► p. 74
- **Help:** view the functions of the keys you can use in Capture mode.

Using the keypad in Capture mode

You can use the keypad to customise your camera settings in Capture mode.

Key	Function
Left/Right	Adjusts the brightness.
Up/Down	Zooms in or out.
▲	Flips the image vertically.
▼	Shows the mirror image.

Key	Function
1	Changes the preview screen.
2	Changes the image size.
3	Changes the image quality.
4	Changes the shooting mode.
5	Changes the colour tone or applies a special effect.
6	Changes the default camera settings. ► p. 74
7	Sets the timer.
8	Accesses the My photos folder.
9	Accesses the functions of the keys you can use in Capture mode.

Using photo options

After saving a photo, press <**Options**> to access the following options:

- **Send:** send the file via MMS.
- **Rename:** change the file name.
- **Go to my photos:** access the **My photos** folder. ▶ p. 60
- **Set as:** set the photo as wallpaper for the idle screen or as a caller ID image for a Phonebook entry.
- **Protection:** lock the file to prevent it from being deleted, or unlock the file.
- **Properties:** access the file properties.

Taking a photo with the phone closed

1. Press and hold [].
2. Make any desired adjustments.
 - Press [] to flip the image vertically.
 - Press [] to view the mirror image.

3. Press [] to take a photo. The photo is automatically saved.

My photos *(Menu 8.2)*

Use this menu to access photos you have taken.
▶ p. 60

Delete all *(Menu 8.3)*

Use this menu to delete photos in each folder and all photos at one time.

1. Press <**Select**> to select the photo categories to be cleared.
2. Press <**OK**>.
3. Press <**Yes**> to confirm the deletion.

Group delete *(Menu 8.4)*

Use this menu to delete the photos you want.

Settings *(Menu 8.5)*

Use this menu to change the default settings for taking photos.

- **Photo size:** select an image size.
- **Photo quality:** select an image quality.
- **Shutter sound:** select the sound that you hear when you press the shutter release.
- **Default name:** set the default prefix for file names.

Memory status *(Menu 8.6)*

Use this menu to check the total amount of memory for the items you have added and the amount of memory currently in use in the phone's system. You can also check the amount of memory used for stored MMS message.

Phone settings *(Menu 9)*

Use this menu to customise your phone settings. You can also reset the settings to their default values.

To access this menu, press <**Menu**> in Idle mode and select **Phone settings**.

Display settings *(Menu 9.1)*

Use this menu to change settings for the display and backlight.

Wallpaper *(Menu 9.1.1)*

You can set up the idle screen on the display.

- **Default wallpapers:** select one of the default images to be displayed.
- **My photos:** select one of the photos you have taken.
- **Downloaded images:** select a downloaded image to be displayed.

- **Text position:** select a text position. If you do not want text to display in Idle mode, select **Off**.
- **Text style:** select a font style or colour.

Front LCD (Menu 9.1.2)

Use this menu to select a clock type to be displayed on the external display.

Backlight time (Menu 9.1.3)

You can select the length of time the backlight or display stays on.

- **On:** select the length of time the backlight stays on.
- **Dim:** select the length of time the display stays on in Dim mode after the backlight turns off. After a specified time, the display turns off.

Brightness (Menu 9.1.4)

You can adjust the brightness of the display for varying lighting conditions.

Dialing font colour (Menu 9.1.5)

Use this menu to select a font colour for the numbers entered while dialling.

Keypad light (Menu 9.1.6)

You can set how the phone controls the use of the keypad light.

- **Use at any time:** the keypad light is always used.
- **Use at night time:** the keypad light is used only between 17:00 and 09:00.
- **Use at custom time:** specify the time period that the keypad light is used.

Service light (Menu 9.1.7)

Use this menu to activate or deactivate the use of the service light on the front of the phone. The service light blinks at regular intervals when your network is available.

Greeting message (Menu 9.2)

Use this menu to enter the greeting that is displayed briefly when the phone is switched on.

Language (Menu 9.3)

Use this menu to select a language for the display text.

Security (Menu 9.4)

Use this menu to protect the phone against unauthorised use by managing the several access codes of your phone and SIM card.

- If you enter an incorrect PIN/PIN2 three times in succession, the SIM card is blocked. To unblock it, you need to enter your PUK/PUK2 (Personal Unblocking Key). The codes are supplied by your service provider.

PIN check (Menu 9.4.1)

The 4- to 8-digit PIN (Personal Identification Number) protects your SIM card against unauthorised use. When this feature is enabled, the phone requires your PIN each time it is switched on.

Change PIN (Menu 9.4.2)

Use this menu to change your PIN. The PIN check feature must be enabled to change the PIN.

Phone lock (Menu 9.4.3)

Use this menu to lock the phone from unauthorised use. When this feature is enabled, you must enter a 4- to 8-digit phone password each time the phone is switched on.



You can set the phone's password the first time you access a menu requiring the password. You can change the phone's password. ► p. 77

Change password (Menu 9.4.4)

Use this menu to change your phone password.

Privacy (Menu 9.4.5)

Use this menu to lock access to call logs, Phonebook entries, messages, and files. When a privacy option is enabled, you must enter the phone password to access the locked items or functions.

SIM lock (Menu 9.4.6)

This menu allows your phone to work only with the current SIM card by assigning a SIM lock code. You must enter the SIM lock code to use a different SIM card.

FDN mode (Menu 9.4.7)

If supported by your SIM card, Fixed Dialling Number (FDN) mode restricts your outgoing calls to a limited set of phone numbers. When this feature is enabled, you can make calls only to phone numbers stored on the SIM card.

Menu functions

Change PIN2 (Menu 9.4.8)

If supported by your SIM card, use this menu to change your current PIN2.

Auto redial (Menu 9.5)

Use this menu to set the phone to make up to 10 attempts to redial a phone number after an unsuccessful call.

Voice clarity (Menu 9.6)

Use this menu to increase the microphone's sensitivity to allow the other person on the phone to hear your voice clearly, even though you may be whispering.

Anykey answer (Menu 9.7)

Use this menu to answer an incoming call by pressing any key, except [▲/▼] and [Ⓜ]. When this option is set to **Off**, you must press <Accept> or [↶] to answer a call.

Active folder (Menu 9.8)

Use this menu to answer an incoming call by opening the phone.

Volume key (Menu 9.9)

Use this menu to set whether the phone mutes the call ringer or rejects a call if you press and hold [▲/▼] when a call comes in.

Reset settings *(Menu 9.0)*

Use this menu to reset the phone settings, and sound settings individually. You can also reset all settings in your phone at the same time.

1. Select the setting category to be reset.
2. Press <Yes>.
3. Enter the phone password and press <OK>.



You can set the phone's password the first time you access a menu requiring the password. You can change the phone's password. ► p. 77

Solve problems

Help and personal needs

To save the time and expense of an unnecessary service call, perform the simple checks in this section before contacting a service professional.

When you switch on your phone, the following messages may appear:

"Insert SIM"

- Be sure that the SIM card is correctly installed.

"Phone lock"

- The automatic locking function has been enabled. You must enter the phone's password before you can use the phone.

Solve problems

“Enter PIN”

- You are using your phone for the first time. You must enter the PIN supplied with the SIM card.
- The PIN check feature is enabled. Every time the phone is switched on, the PIN has to be entered. To disable this feature, use the **PIN check** menu.

“Enter PUK2”


- The PIN has been entered incorrectly three times in succession, and the SIM card is now blocked. Enter the PUK supplied by your service provider.

“No service,” “Network failure,” or “Not done” displays


- The network connection has been lost. You may be in a weak signal area. Move and try again.

- You are trying to access an option for which you have no subscription with your service provider. Contact the service provider for further details.

You have entered a number but it was not dialed

- Be sure that you have pressed [].
- Be sure that you have accessed the right cellular network.
- Be sure that you have not set an outgoing call barring option.

Your correspondent cannot reach you

- Be sure that your phone is switched on. ([] pressed for more than one second.)
- Be sure that you have accessed the right cellular network.
- Be sure that you have not set an incoming call barring option.

Your correspondent cannot hear you speaking

- Be sure that you have switched on the microphone.
- Be sure that you are holding the phone close enough to your mouth. The microphone is located at the bottom of the phone.

The phone starts beeping and “Low battery” flashes on the display

- Your battery is insufficiently charged. Recharge the battery.

The audio quality of the call is poor

- Check the signal strength indicator on the display (📶). The number of bars indicates the signal strength from strong (📶) to weak (📶).
- Try moving the phone slightly or moving closer to a window if you are in a building.

No number is dialled when you re-call a Phonebook entry

- Use the **Find name** menu to ensure the number has been stored correctly.
- Re-store the number, if necessary.

The battery does not charge properly or the phone sometimes turns itself off

- Wipe the charging contacts both on the phone and on the battery with a clean soft cloth.

If the above guidelines do not help you to solve the problem, take note of:

- The model and serial numbers of your phone
- Your warranty details
- A clear description of the problem

Then contact your local dealer or Samsung after-sales service.

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 2.0W/kg.¹

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

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.

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.

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 network operator.
- 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 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 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, 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.

Health and safety information

- 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.

- * Depending on the software installed or your service provider or country, some of the descriptions in this guide may not match your phone exactly.
- * Depending on your country, your phone and accessories may appear different from the illustrations in this guide.

SAMSUNG ELECTRONICS



World Wide Web
<http://www.samsungmobile.com>

Printed in Korea
Code No.:GH68-12448A
English. 11/2006. Rev. 1.1