* 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.

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SGH-E420
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.

Qualified service

Only qualified service personnel may repair your phone.

For more detailed safety information, see "Health and safety information" on page 78.

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, video, and audio.

- **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.

- **Mobile tracker**
  Trace your missing phone by checking the number from a tracking message.

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Overview of menu functions

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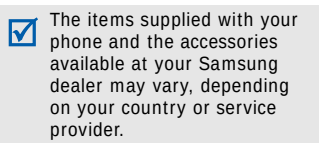
1. Shows only if supported by your SIM card.

Unpack

Make sure you have each item

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

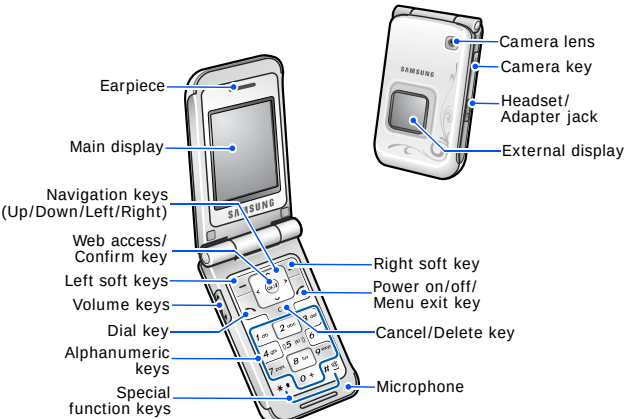
You can obtain various accessories from your local Samsung dealer.



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

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.

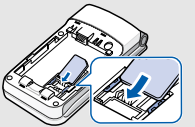
Install and charge the phone

1 Remove the battery cover.

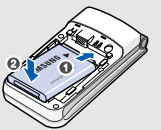
☑ If the phone is already on, first turn it off by pressing and holding [ ].

2 Insert the SIM card.

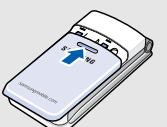
☑ Make sure that the gold-coloured contacts on the card are face down.



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 [ ].
Do not turn on the phone when mobile phone use is prohibited.	3. If necessary, enter the PIN and press <**OK**>.

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

Keys and display

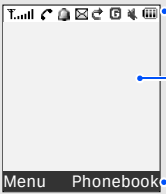
Keys

	Perform the function indicated on the bottom line of the display.
	In Idle mode, access the following menus directly: • Up: **Camera** • Down: **Find name** • Left: **Create** in **Short messages** • Right: **Calendar** In Menu mode, scroll through menu options.

OK/i	In Idle mode, launch the web browser. In Menu mode, select the highlighted menu options or confirm input.
	Make or answer a call. In Idle mode, retrieve numbers recently dialled, missed, or received.
C	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.
1 ⋮ 0 +	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[1]

- Received signal strength
- Call in progress
- Out of your service area; you cannot send or receive calls
- Home Zone, if you have registered for the appropriate service
- Office Zone, if you have registered for the appropriate service
- Alarm set ▶ p. 62
- New SMS message
- New MMS message
- Call diverting feature active ▶ p. 37
- GPRS network
- Call ringer type ▶ p. 40
  - None: Melody or Light only
  - : :Vibration
  - : :Vibration then melody

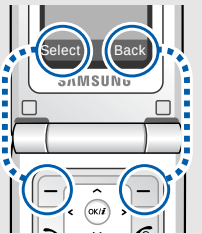
	Silent mode (Mute)
	Silent mode (Vibration)
	Battery power level

1. Depending on your country or service provider, the icons shown on the display may vary.

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/*i*] 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** → **Text 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 ringtones** or **My sounds**.

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** → **Wallpaper**.
2. Select an image category, **Default wallpapers**, **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 the default password, **00000000**, and press <**OK**>.

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

Make/Answer calls

Make a call

1. 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 [Up] or [📷] to turn on the camera.
2. Aim the lens at the subject and make any desired adjustments.
3. Press [OK/i] or [📷] to take a photo. The photo is saved automatically.
4. Press <**Camera**> to take another photo.

View a photo

1. In Idle mode, [Up] and select **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 [OK/i].

Navigate the web

- To scroll through browser items, press [Up] or [Down].
- To select an item, press <**Select**> or [OK/*i*].
- 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 <**Save**> 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 <**Select**>.

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 [OK/*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. Press <**Opt.**> and select **Done**.
8. When you have finished, press <**Opt.**> and select **Send**.
9. Select an empty location.
10. Select **Number** or **E-mail** and enter destination numbers or addresses and press <**OK**>.

    Otherwise, select **Phonebook** to retrieve one from your Phonebook and press <**OK**>.
11. 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.

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

Access your schedule

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

Enter text

ABC, T9, Number, and Symbol modes

You can enter text for some features such as Messages, Phonebook, or Organiser, using ABC mode, T9 mode, Number mode, and Symbol mode.

Changing the text input mode

- Press the right soft key and select the mode you want.
- Press and hold [#] to switch to Number mode.
- Press and hold [*] to switch to Symbol mode.

Using ABC mode

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

Key	Characters in order displayed	
	Upper case	Lower case
1	. , - ? ! @ : ( ) / 1	
2	A B C 2	a b c 2
3	D E F 3	d e f 3
4	G H I 4	g h i 4
5	J K L 5	j k l 5
6	M N O 6	m n o 6
7	P Q R S 7	p q r s 7
8	T U V 8	t u v 8
9	W X Y Z 9	w x y z 9
0	+ = < > € £ $ % & ¥ ¤ 0	

(Creating an SMS message with GSM-alphabet encoding)

Other ABC mode operations

- 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.
- Press [#] to insert a space.
- Press [*] to change case. Lower case (No indicator), Initial capital (⬆), and Capital lock (⬆) are available.
- Press the Navigation keys to move the cursor.
- Press [**C**] to delete characters one by one. Press and hold [**C**] to clear the display.

Using T9 mode

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

Entering a word in T9 mode

1. Press [**2**] to [**9**] to start entering a word. Press each key once for each letter.

   For example, press [**4**], [**3**], [**5**], [**5**], and [**6**] to enter *HELLO* in T9 mode.

   T9 predicts the word that 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.

   For example, *OF* and *ME* use [**6**] and [**3**].
4. Press [#] to insert a space and enter the next word.

Other T9 mode operations

- Press [**1**] to enter periods or apostrophes automatically.
- Press [#] to insert a space.
- Press [*] to change case. Lower case (No indicator), Initial capital (⬆), and Capital lock (⬆) are available.
- Press the Navigation keys to move the cursor.
- Press [**C**] to delete characters one by one. Press and hold [**C**] to clear the display.

Adding a new word to the T9 dictionary

This feature may not be available for some languages.

1. Enter the word that 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 ABC 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 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. 30

You can also use the speed dial feature to assign your most frequently called numbers to specific number keys. ▶ p. 32

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 [ ] and [▲/▼]. ▶ p. 74
- When **Active folder** is active, you can simply open the phone. ▶ p. 75
- Press [ ] to reject a call.
- Press and hold [▲/▼] to reject a call or mute the ringer, depending on the **Volume key** setting. ▶ p. 75

Viewing missed calls

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

1. Press <**Missed**>.
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. 39

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 In-call options

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

- **Speaker on**/**Normal**: turn on the speakerphone feature or switch back to Normal mode.
- **Voice clarity on**/**Voice clarity off**: remove extraneous noise and increases call quality so that the person with whom you are speaking can hear you clearly event if you are in a noisy place.
- **Hold**/**Retrieve**: place the current call on hold, or retrieve the call.
- **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.
- **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.
- **Mute**/**Unmute**: switch off the phone's microphone so that the other person on the phone cannot hear you, or switch it back on.

- **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.

- **Address book**: access the contact list.
- **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.
- **Short message**: access SMS messages in the Inbox or Outbox. You can also create and send a new SMS message.
- **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 call**: disconnect the call currently on hold.
- **Remove**: remove the selected participant.
- **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 (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. 73

Adding a contact

1. Press <**Options**> and select **Add**.
2. Enter your PIN2 supplied with your SIM card and press <**OK**>.
3. Enter information about the contact:
   - **Name**: assign a name.
   - **Phone number**: add a phone number.
   - **Location**: assign a location number.
4. Press <**Save**>.

Using contact options

From the FDN list, you can access the same contact options as in Phonebook by pressing <**Options**>. ▶ p. 30

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 <**OK**> or <**Select**>.

Storing a contact on the SIM card

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

Speed-dial list

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

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:

- **Ringtone**: 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. Enter the PIN2 code supplied with the SIM card and press <**OK**>.

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/*i*] 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**: 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.
- **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.
- **Reset timers**: reset the call timers. You need to enter the phone password.

☑ The password is preset to **00000000**. You can change this password. ▶ p. 73

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 ringer, message ringer, 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.

- **Default ringtones**: 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 Quiet 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, 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/*i*].

   > ☑
   > - 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.
- **Preset messages**: insert a text template into text.
- **Save message**: save the message in the **Outbox** folder.
- **Language select**: change the language to be used in T9 input mode.

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:

- **Replay**: reply to the sender.
- **Forward**: forward the message to other people.
- **Delete**: delete the message.
- **Call back**: dial the sender's phone number.
- **Move to Phone**/**Move to SIM**: move the message between the SIM card and the phone's memory.
- **Extract media**: save media items from the message to your phone's memory.
- **Extract address**: extract URL addresses, e-mail addresses, or phone numbers from the message.

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.
- **Extract address**: extract URL addresses, e-mail addresses, or phone numbers from the message.
- **Send**: send or resend the message.
- **Move to Phone**/**Move to SIM**: move the message between the SIM card and the phone's memory.

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

Using emoticon options

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

- **Edit**: edit the emoticon.
- **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.

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 **Done**.
6. Press <**Opt.**> and select **Send**.
7. Select an empty destination field.
8. 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.

9. 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.
- **Extract media**: save media items from the message to your phone's memory.

- **Extract 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.
- **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.

Preset 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.

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

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.

Broadcast *(Menu 5.6)*

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 5.7)*

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

Short messages *(Menu 5.7.1)*

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.
- **Character support**: select a character encoding type. When you select **Automatic**, the phone switches the encoding type from GSM-alphabet to Uni-code if you enter a Unicode character. Use of Unicode encoding will reduce the maximum number of characters in a message to about half. If this menu is not shown, your phone provides automatic character encoding by default.

Multimedia messages *(Menu 5.7.2)*

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 5.8)*

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.

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. You can also press [OK/*i*] in Idle mode.

Navigating the web browser

To	Press
scroll through browser items	[Up] or [Down].
select a browser item	<**Select**> or [OK/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.

Media box *(Menu 6.2)*

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

My photos *(Menu 6.2.1)*

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 6.2.2)*

Use this menu to access images 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 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 6.2.3)*

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 ringtone**: set the sound file as your rongtone.
- **Rename**: change the file name.
- **Delete**: delete the file.
- **Properties**: access the file properties.

Delete all *(Menu 6.2.4)*

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

Memory status *(Menu 6.2.5)*

Use this menu to check the total amount of memory for media items and the amount of memory currently in use in each media box.

JAVA world *(Menu 6.3)*

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

Downloads *(Menu 6.3.1)*

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 6.3.2)*

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 6.3.3)*

Use this menu to check the amount of memory currently being used and memory available for Java applications.

Organiser *(Menu 7)*

The **Organiser** 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 **Organiser**.

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 and hold [Up] or [Down] 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 5.
5. Enter the time for the item and press <**Set**>.
6. Press <**Yes**> to set an alarm.
7. Enter the time for the alarm to sound and press <**Set**>.
8. Press <**Yes**>.
9. 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 and hold [Up] or [Down] 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 <**Options**> 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 <**Options**> 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. Before setting the time and date, specify your time zone in **Set world time**.

- **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 <**Set**> and select **Set DST**.

- **Set format**: select 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 <**Set**>.
5. Press <**Options**> and select **Alarm Tone**.
6. Select an alarm tone.

Stopping an alarm

- For a non-wake-up alarm, press <**Confirm**>.
- For a wake-up alarm, press <**Confirm**> or [OK/*i*].

  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. A voice memo can be up to one hour long.

Record *(Menu 7.6.1)*

Use this menu to record a voice memo.

1. Select or [OK/i] 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.
	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.

Settings *(Menu 7.6.4)*

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 7.6.5)*

You can access memory information for voice memos.

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 <**Equal**> to view the result.
5. If necessary, repeat from step 2 to confirm the calculation.

Convertor *(Menu 7.8)*

Use this menu for common conversions, such as currency and 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 <**Equal**>.

   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 <**Set**>.
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**, or press [Up].

- 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 [📷] or [Up] in Idle mode.
2. Make any desired adjustments.
   - Press <🗀> to use camera options.
     ▶ p. 67
   - Use the keypad to change the camera settings or switch to other modes.
     ▶ p. 68
3. Press [OK/*i*] or [📷] to take a photo. The photo is saved in the **My photos** folder.
4. Press <**Camera**> or [**C**] to return to Capture mode.

   Press <**Options**> to access photo options.
   ▶ p. 68

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.
- **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 a photo. ▶ p. 69
- **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.
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. 69
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. 56

- **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. Press [▲] to flip the image vertically, or 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. 56

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.

Settings *(Menu 8.4)*

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 8.5)*

Use this menu to check the amount of memory currently being used and memory available for the camera.

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 *(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.
- **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.

- **Mode**: select a keypad light mode.

  Use at any time: the keypad light is always used.

  Use at night time: the keypad light is used only between 5:00 PM and 9:00 AM.

  Use at custom time: the keypad light is used at a specified time period.
- **Set time**: specify the length of time when the keypad light is used. This option is available when **Use at custom time** in the **Mode** option is selected.

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 and text input mode, separately.

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.

The password is preset to **00000000**. To change the password, use the **Change password** menu.

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.

Change PIN2 *(Menu 9.4.8)*

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

Mobile tracker *(Menu 9.4.9)*

When someone tries to use your phone with another SIM card, the phone will automatically send the preset tracking message to your family or friends. You can check the phone number from which the messages are sent and then track your phone. This feature is useful when the phone is stolen or lost.

> ☑ Sending of the tracking message will be billed to the user of the unauthorised SIM card. To use your phone with any other SIM card, you must first deactivate the Mobile tracker feature.

1. Enter the phone password and press <**OK**>.
2. Press <**Confirm**>.
3. Specify the following options:
   - **Mobile tracker**: activate the Mobile tracker feature.
   - **Recipients**: specify phone numbers to which you want to send the tracking messages.
   - **Sender**: enter the sender's name.
   - **Message**: check the preset tracking message text.

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 [ ]. 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 9.10)*

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**>.

> ☑ The password is preset to **00000000**. You can change this password. ▶ p. 73

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.

"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 dialled

- 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.

Exposure to Radio Frequency (RF) Signals

Certification Information (SAR)

Your wireless phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the exposure limits for radio frequency (RF) energy set by the Federal Communications Commission (FCC) of the U.S. government. These FCC exposure limits are derived from the recommendations of two expert organizations, the National Counsel on Radiation Protection and Measurement (NCRP) and the Institute of Electrical and Electronics Engineers (IEEE). In both cases, the recommendations were developed by scientific and engineering experts drawn from industry, government, and academia after extensive reviews of the scientific literature related to the biological effects of RF energy.

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

SAR tests are conducted using standard operating positions accepted by the FCC with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

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

The highest SAR values for this model phone as reported to the FCC are:

GSM1900 Head: 0.997 W/Kg, Body-worn: 0.322 W/Kg.

For body worn operation, this model phone has been tested and meets the FCC RF exposure guidelines whenused with a Samsung accessory designated for this product or when used with an accessory that contains no metal and that positions the handset a minimum of 1.5 cm from the body.

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

SAR information on this and other model phones can be viewed on-line at www.fcc.gov/oet/fccid. This site uses the phone FCC ID number, A3LSGHE420. Sometimes it may be necessary to remove the battery pack to find the number. Once you have the FCC ID number for a particular phone, follow the instructions on the website and it should provide values for typical or maximum SAR for a particular phone. Additional product specific SAR information can also be obtained at www.fcc.gov/cgb/sar.

Consumer Information on Wireless Phones

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

What kinds of phones are the subject of this update?

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

Do wireless phones pose a health hazard?

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

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

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

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

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

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

- "National Institute for Occupational Safety and Health
- "Environmental Protection Agency
- "Federal Communications Commission
- "Occupational Safety and Health Administration
- "National Telecommunications and Information Administration

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

FDA shares regulatory responsibilities for wireless phones with the Federal Communications Commission (FCC). All phones that are sold in the United States must comply with FCC safety guidelines that limit RF

exposure. FCC relies on FDA and other health agencies for safety questions about wireless phones.

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

What are the results of the research done already?

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

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

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

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

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

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

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

FDA and Cellular Telecommunications & Internet Association (CTIA) have a formal Cooperative Research and Development Agreement (CRADA) to do research on wireless phone safety. FDA provides the scientific oversight, obtaining input from experts in government, industry, and academic organizations. CTIA-funded research is conducted through contracts

to independent investigators. The initial research will include both laboratory studies and studies of wireless phone users. The CRADA will also include a broad assessment of additional research needs in the context of the latest research developments around the world.

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

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

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

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

What about children using wireless phones?

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

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

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

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

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

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

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

claims. According to FTC, these defendants lacked a reasonable basis to substantiate their claim.

What about wireless phone interference with medical equipment?

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

FDA continues to monitor the use of wireless phones for possible interactions with other medical devices. Should harmful interference be found to occur, FDA will conduct testing to assess the interference and work to resolve the problem.

Additional information on the safety of RF exposures from various sources can be obtained from the following organizations:

- FCC RF Safety Program:
  http://www.fcc.gov/oet/rfsafety/
- Environmental Protection Agency (EPA):
  http://www.epa.gov/radiation/
- Occupational Safety and Health Administration's (OSHA):
  http://www.osha.gov/SLTC/radiofrequencyradiation/index.html

- National institute for Occupational Safety and Health (NIOSH):

  http://www.cdc.gov/niosh/emfpg.html

- World health Organization (WHO):

  http://www.who.int/peh-emf/

- International Commission on Non-Ionizing Radiation Protection:

  http://www.icnirp.de

- National Radiation Protection Board (UK):

  http://www.nrpb.org.uk

- Updated 4/3/2002: US food and Drug Administration

  http://www.fda.gov/cellphones

Road Safety

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

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

1. Get to know your wireless phone and its features, such as speed dial and redial. If available, these features help you to place your call without taking your attention off the road.
2. When available, use a hands-free device. If possible, add an additional layer of convenience and safety to your wireless phone with one of the many hands free accessories available today.

3. Position your wireless phone within easy reach. Be able to access your wireless phone without removing your eyes from the road. If you get an incoming call at an inconvenient time, let your voice mail answer it for you.
4. Let the person you are speaking with know you are driving; if necessary, suspend the call in heavy traffic or hazardous weather conditions. Rain, sleet, snow, ice and even heavy traffic can be hazardous.
5. Do not take notes or look up phone numbers while driving. Jotting down a “to do” list or flipping through your address book takes attention away from your primary responsibility, driving safely.
6. Dial sensibly and assess the traffic; if possible, place calls when you are not moving or before pulling into traffic. Try to plan calls when your car will be stationary. If you need to make a call while moving, dial only a few numbers, check the road and your mirrors, then continue.
7. Do not engage in stressful or emotional conversations that may be distracting. Make people you are talking with aware you are driving and suspend conversations that have the potential to divert your attention from the road.
8. Use your wireless phone to call for help. Dial 9-1-1 or other local emergency number in the case of fire, traffic accident or medical emergencies. Remember, it is a free call on your wireless phone!
9. Use your wireless phone to help others in emergencies. If you see an auto accident, crime in progress or other serious emergency where lives are in danger, call 9-1-1 or other local emergency number, as you would want others to do for you.
10. Call roadside assistance or a special non-emergency wireless assistance number when necessary. If you see a broken-down vehicle posing no serious hazard, a broken traffic signal, a minor traffic accident where no one appears injured, or a vehicle you know to be stolen, call roadside assistance or other special non-emergency number.

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

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

Provided by the Cellular Telecommunications & Internet Association

Operating Environment

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

As with other mobile radio transmitting equipment, users are advised that for the satisfactory operation of the equipment and for the safety of personnel, it is recommended that the equipment should only be used in the normal operating position (held to your ear with the antenna pointing over your shoulder).

Using Your Phone Near Other Electronic Devices

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

Pacemakers

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

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

Persons with pacemakers:

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

- should use the ear opposite the pacemaker to minimize potential interference.

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

Hearing Aids

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

Other Medical Devices

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

Vehicles

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

Posted Facilities

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

Potentially Explosive Environments

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

Users are advised to switch the phone off while at a refueling point (service station). Users are reminded of the need to observe restrictions on the use of radio equipment in fuel depots (fuel storage and distribution

areas), chemical plants or where blasting operations are in progress.

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

Emergency Calls

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

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

To make an emergency call:

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

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

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

Restricting Children's access to your Phone

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

FCC Notice and Cautions

FCC Notice

- This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
- This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

  -Reorient or relocate the receiving antenna.

  -Increase the separation between the equipment and receiver.

  -Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

  -Consult the dealer or an experienced radio/TV technician for help.

The phone may cause TV or radio interference if used in close proximity to receiving equipment. The FCC

can require you to stop using the phone if such interference cannot be eliminated.

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

Cautions

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

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

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

Other Important Safety Information

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

Product Performance

Getting the Most Out of Your Signal Reception

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

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

Understanding the Power Save Feature

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

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

Understanding How Your Phone Operates

Your phone is basically a radio transmitter and receiver. When it's turned on, it receives and transmits radio frequency (RF) signals. When you use your phone, the system handling your call controls the power level. This power can range from 0.006 watts to 0.2 watts in digital mode.

Maintaining Your Phone's Peak Performance

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

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

- Hold the phone with the antenna raised, fully-extended and over your shoulder.
- Try not to hold, bend or twist the phone's antenna.
- Don't use the phone if the antenna is damaged.
- Speak directly into the phone's receiver.

- Avoid exposing your phone and accessories to rain or liquid spills. If your phone does get wet, immediately turn the power off and remove the battery. If it is inoperable, call Customer Care for service.

Availability of Various Features/Ring Tones

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

Battery Standby and Talk Time

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

Battery Precautions

- Never use any charger or battery that is damaged in any way.
- Use the battery only for its intended purpose.
- If you use the phone near the network's base station, it uses less power; talk and standby time are greatly affected by the signal strength on the cellular network and the parameters set by the network operator.
- Battery charging time depends on the remaining battery charge and the type of battery and charger used. The battery can be charged and discharged hundreds of times, but it will gradually wear out. When the operation time (talk time and standby time) is noticeably shorter than normal, it is time to buy a new battery.
- If left unused, a fully charged battery will discharge itself over time.

- Use only Samsung-approved batteries and recharge your battery only with Samsung-approved chargers. When a charger is not in use, disconnect it from the power source. Do not leave the battery connected to a charger for more than a week, since overcharging may shorten its life.
- Extreme temperatures will affect the charging capacity of your battery: it may require cooling or warming first.
- Do not leave the battery in hot or cold places, such as in a car in summer or winter conditions, as you will reduce the capacity and lifetime of the battery. Always try to keep the battery at room temperature. A phone with a hot or cold battery may temporarily not work, even when the battery is fully charged. Li-ion batteries are particularly affected by temperatures below 0 °C (32 °F).
- Do not short-circuit the battery. Accidental short-circuiting can occur when a metallic object (coin, clip or pen) causes a direct connection between the + and - terminals of the battery (metal strips on the battery), for example when you carry a spare battery in a pocket or bag. Short-circuiting the terminals may damage the battery or the object causing the short-circuiting.
- Dispose of used batteries in accordance with local regulations. In some areas, the disposal of batteries in household or business trash may be prohibited. For safe disposal options for Li-Ion batteries, contact your nearest Samsung authorized service center. Always recycle. Do not dispose of batteries in a fire.

Care and Maintenance

Your phone is a product of superior design and craftsmanship and should be treated with care. The suggestions below will help you fulfill any warranty obligations and allow you to enjoy this product for many years.

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

- Use only the supplied or an approved replacement antenna. Unauthorized antennas or modified accessories may damage the phone and violate regulations governing radio devices.
- If the phone, battery, charger or any accessory is not working properly, take it to your nearest qualified service facility. The personnel there will assist you, and if necessary, arrange for service.

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