

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

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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 calls

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

Keep your phone away from small children

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

Accessories and batteries

Use only Samsung-approved accessories and batteries. Use of any unauthorised accessories could damage 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.

Qualified service

Only qualified service personnel may repair your phone.

For more detailed safety information, see "Health and safety information" on page 77.

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, [OK/↵]
- < > Indicates a soft key, whose function is displayed on the phone screen. For example, <Menu>



- **Camera and camcorder**
Use the camera module on your phone to take a photo or record a video.

Special features of your phone



- **MP3 player**
Play MP3 music files using your phone as a MP3 player.



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

- **Voice clarity**

Use the voice clarity feature to increase the volume and clarity of an incoming call, even in the midst of a crowd.



- **Get personal with photo caller ID**

See who's calling you when their very own photo displays.



- **Name card**

Create name cards with your number and profile. Whenever introducing yourself to others, use this convenient electronic name card.

- **Multimedia Message Service (MMS)**

Send and receive MMS messages with a combination of text, images, video, and audio.

- **E-mail**

Send and receive e-mails with images, video, and audio attachments.



- **Java**

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



- **Calendar**

Keep track of your daily, weekly, and monthly schedule.



- **Voice recorder**

Record memos or sounds.

Contents

Unpack 6

Make sure you have each item

Your phone 6

Buttons, features, and locations

Get started 7

First steps to operating your phone

Install and charge the phone 7

Power on or off 9

Keys and display 9

Access menu functions 12

Customize your phone 13

Make/Answer calls 15

Step outside the phone 23

Begin with your camera, music, and other special features

Use camera 23

Play MP3s 24

Browse the web 25

Use Phonebook 25

Send messages 26

View messages 28

Use Bluetooth 29

Enter text 31

ABC, T9, Number, and Symbol mode

Call functions 33

Menu functions 37

All menu options listed

Solve problems 92

Help and personal needs

Health and safety information 94

Index 101

Overview of menu functions

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

1 Voice notes	▶ p.33	5 Messages	▶ p.37	7 Get More Help	▶ p.60	Phonebook	▶ p.29
2 Call records	▶ p.33	1 Create new	▶ p.37	8 Camera	▶ p.60	1 Add new contact	▶ p.29
1 All calls	▶ p.34	2 Inbox	▶ p.40	9 Settings	▶ p.66	2 Contact list	▶ p.30
2 Missed calls	▶ p.34	3 Sentbox	▶ p.41	1 Wi-Fi	▶ p.66	3 Group	▶ p.31
3 Incoming calls	▶ p.34	4 Outbox	▶ p.42	2 Time & Date	▶ p.66	4 Speed dial	▶ p.31
4 Outgoing calls	▶ p.34	5 Draft	▶ p.42	3 Phone settings	▶ p.66	5 My name card	▶ p.32
5 Delete all	▶ p.34	6 Templates	▶ p.42	4 Display settings	▶ p.67	6 Own number	▶ p.32
6 Call time	▶ p.34	7 Voice mail	▶ p.43	5 Sound settings	▶ p.68	7 FDN list	▶ p.32
3 t-zones	▶ p.35	8 Delete all	▶ p.43	6 Network services	▶ p.69	8 Management	▶ p.33
4 Instant messaging	▶ p.37	9 Settings	▶ p.43	7 Bluetooth	▶ p.71		
		10 Broadcast message	▶ p.49	8 Security	▶ p.73		
		11 Memory status	▶ p.49	9 Memory status	▶ p.75		
		6 Fun & Apps	▶ p.49	10 Reset settings	▶ p.75		
		1 File manager	▶ p.49				
		2 MP3 player	▶ p.53				
		3 Voice recognition	▶ p.55				
		4 Games	▶ p.56				
		5 Image editor	▶ p.58				
		6 Organizer	▶ p.58				

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 at your Samsung dealer may vary, depending on your country or service provider.

Your phone

Buttons, 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

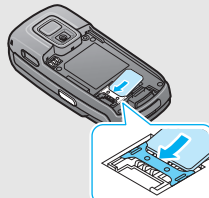
1 Remove the battery.



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

2

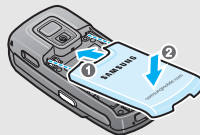
Insert the SIM card.



Make sure that the gold-coloured contacts on the card face down into the phone.

2

Install the battery.



- 4** Plug the travel adapter into the phone.



- 5** Plug the adapter into a standard AC wall outlet.

- 6** When the phone is completely charged (the battery icon becomes still), unplug the adapter from the power outlet.

- 7** 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 [] to turn on the phone.
	3. If necessary, enter the PIN and press <OK>.
Do not turn on the phone when mobile phone use is prohibited.	
Switch off	1. Open the phone.
	2. Press and hold [].

Keys and display

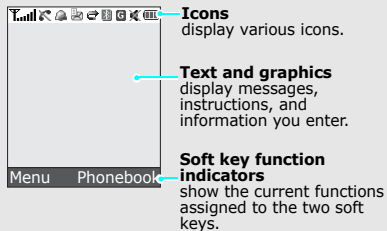
Key(s)	Description
	Perform the function indicated on the bottom line of the display.
	In Idle mode, access your favourite menus, directly. ► p. 66 In Menu mode, scroll through the menu options.
	In Idle mode, launch the web browser. In Menu mode, select the highlighted menu option.
	Delete characters from the display. In Menu mode, return to the previous menu level.
	Send or answer a call. In Idle mode, retrieve the recent numbers dialled, missed, or received.

Key(s)	Description
	End a call. Press and hold to switch the phone on and off. In Menu mode, cancel input and return the phone to Idle mode.
 ⋮ 	Enter numbers, letters, and some special characters. In Idle mode, press and hold [1] to access your voicemail server. Press and hold [0] to enter the international call prefix.
 	Enter special characters. In Idle mode, press and hold [*] to enter a pause between numbers. Press and hold [#] to activate or deactivate Quiet mode.

Key(s)	Description
	Adjust the phone volume. In Idle mode, with the phone open, adjust the keypad tone volume. With the phone closed, press and hold to activate the external display.
	In Idle mode, with the phone open, press and hold to turn on the camera. With the phone closed, press and hold to initiate the Movement Recognition feature. In Camera mode, take a photo or record a video.

Display

Layout



Icons*

	Received signal strength
	Call in progress
	Out of your service area; you cannot send or receive calls
	Alarm set
	New text message
	New multimedia message
	New voicemail
	New e-mail

Icons

(continued)

	One of the message Inbox is full
	SOS message ▶ p. 49
	Call diverting feature is active ▶ p. 69
	Bluetooth feature is active ▶ p. 71
	Connected to hands-free car kit or headset
	GPRS network
	Home Zone, if you have registered for the appropriate service
	Office Zone, if you have registered for the appropriate service
	Call ringer set to vibrate ▶ p. 68
	Quiet mode is active ▶ p. 69
	Battery power level

* The icons shown on the display may vary, depending on your country or service provider.

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 access Menu mode.

Press the right soft key to access **Phonebook**.

Select an option

1. Press the appropriate soft key.
2. Press the Navigation keys to move to the next or previous option.
3. Press **<Select>**, **<OK>**, or [OK/✓] to confirm the function displayed or option highlighted.
4. To exit, choose either of the following methods.
 - Press **<Back>** or [C] to move up one level.
 - Press [⏮] to return to Idle mode.

Use shortcuts

Press the number key corresponding to the option you want. For the index numbers 10 and 11, press [0] and [*], respectively.

Customize your phone

Display language

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

Call ringer melody

1. In Idle mode, press <Menu> and select **Settings** → **Sound settings** → **Incoming call** → **Ring tone**.
2. Select a ringtone category.
3. Select a ringtone.
4. Press <Save>.

Idle mode wallpaper

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

1. In Idle mode, press <Menu> and select **Settings** → **Display settings** → **Wallpaper** → **Main display** or **Cover display**.
2. Select an image category.
3. Select an image.

Menu mode skin colour

You can change the colour for the display components, such as title bars and highlight bars.

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

Menu shortcuts

You can use the Navigation keys as shortcut keys to access specific menus directly from Idle mode.

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

Quiet mode

You can switch to Quiet mode to avoid disturbing other people.
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 **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. In Idle mode, enter an area code and phone number.
2. Press [].
3. To end the call, press [].

Answer a call

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

Adjust the volume during a call

Press [ / ].

Step outside the phone

Begin with your camera, music, and other special features

Use camera

Take a photo

1. Open the phone.
2. In Idle mode, press and hold  to turn on the camera.
3. Aim the lens at the subject and adjust the image.
4. Press  to take a photo. The photo is saved automatically.
5. Press [OK/✓] to take another photo.

View a photo

1. In Idle mode, <Menu> and select **File manager** → **Images** → **Photos**.
2. Select the photo you want.

Record a video

1. In Idle mode, press and hold  to turn on the camera.
2. Press [1] to switch to Record mode.
3. Press  to start recording.
4. Press  to stop recording. The video is saved automatically.
5. Press the right soft key to return to Record mode.

Play a video

1. In Idle mode, <Menu> and select **File manager** → **Videos** → **Videos**.
2. Select the video you want.

Play MP3s

Copy MP3 files to the phone

Use these methods:

- Download from the wireless web ► p. 35
- Download from a computer using Samsung PC Studio
 - Samsung PC Studio User's Guide
- Receive via Bluetooth ► p. 73

Create a play list

1. In Idle mode, press **<Menu>** and select **Applications** → **MP3 Player**.
2. Press **<Options>** and select **Add to list** → **Add all** or **Add a file**.
3. For **Add a file**, press [OK/↵] to check the files you want and press **<Add>**.
4. Press **<Back>** to return to the MP3 player screen.

Play MP3 file

1. From the MP3 player screen, press [OK/↵].
2. During playback, use the following keys:
 - OK/↵: pauses or resumes playback.
 - Left: moves back to the previous file. Moves backward in a file when held down.
 - Right: skips to the next file. Skips forward in a file when held down.
 - Up: opens the play list.
 - ▲/▼: adjusts the volume.
 - Down: stops playback.

Browse the web

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

Launch the web browser

In Idle mode, press [OK/⏏].

Navigate the web

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

Use Phonebook

Add an entry

To the phone's memory:

1. In Idle mode, enter a phone number and press [OK/⏏].
2. Select **Phone** → a number type.
3. Specify the contact information: First name, Last name, Mobile, Home, Office, Fax, Other, Email, Graphic ID, Alert, Group, and Notes.
4. Press <Save> to save the entry.

To the SIM card:

1. In Idle mode, enter a phone number and press [OK/⏏].
2. Select **SIM**.
3. Enter a name.
4. Press [OK/⏏] to save the entry.

Find an entry

1. In Idle mode, press <**Contacts**>.
2. Select an entry.
3. Scroll to a number and press [↵] to dial, or press [OK/↵] to edit contact information.

Create and send a name card

1. In Idle mode, press <**Menu**> and select **Phonebook** → **My name card**.
2. Specify your contact information.
3. Press <**Save**> to save the name card.
4. To send the name card to other people, press <**Options**> and select **Send via** → a sending method.

Send messages**Send a text message (SMS)**

1. In Idle mode, press <**Menu**> and select **Messages** → **Create new message** → **Text message**.
2. Enter the message text and press [OK/↵].
3. Enter destination numbers.
4. Press [OK/↵] to send the message.

Send a multimedia message (MMS)

1. In Idle mode, press <**Menu**> and select **Messages** → **Create new message** → **Multimedia messages**.
2. Select **Subject**.
3. Enter the message subject and press [OK/↵].

4. Select **Picture & Video** or **Sound**.
5. For **Picture & Video**, select **Pictures** or **Videos** and add an image or a video clip.
For **Sound**, select one of the sound options and add a sound clip.
6. Select **Message**.
7. Enter the message text and press [OK/↵].
8. Press <**Options**> and select **Send**.
9. Enter destination numbers or e-mail addresses.
10. Press [OK/↵] to send the message.

Send an e-mail

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

View messages

View a text message

When a notification appears:

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

From the Inbox:

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

View a multimedia message

When a notification appears:

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

From the Inbox:

1. In Idle mode, press <**Menu**> and select **Messages** → **My messages** → **Inbox**.
2. Select an MMS message (📎).

View an e-mail

1. In Idle mode, press <**Menu**> and select **Messages** → **My messages** → **Email box**.
2. Select **Check new mail** to retrieve an e-mail or a header.
3. Select an e-mail or a header.
4. If you selected a header, press <**Options**> and select **Retrieve**.

Use Bluetooth

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

Turn on Bluetooth

In Idle mode, press <Menu> and select **Settings** → **Bluetooth** → **Activation** → **On**.

Search for and pair with a Bluetooth device

1. In Idle mode, press <Menu> and select **Settings** → **Bluetooth** → **My devices** → **Search new device**.
2. Select a device.
3. Enter a Bluetooth PIN code or the other device's Bluetooth PIN code, if it has one, and press <OK>.

When the owner of the other device enters the same code, pairing is complete.

Send data

1. Access an application, **Phonebook**, **File manager**, or **Calendar**.
2. Scroll to an item.
3. Press <Options> and select **Send via** → **Bluetooth**.
4. Select a device.
5. If necessary, enter the Bluetooth PIN and press <OK>.

Receive data

To receive data via Bluetooth, your phone's Bluetooth feature must be active.

If necessary, press <Yes> to confirm the reception.

Enter text

ABC, T9, Number, and Symbol mode

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

Changing the text input mode

- Press the right soft key to change the text input mode. Or, press and hold the right soft key and select the mode you want.

 **Eng**: ABC mode

 **Eng**: T9 mode

 **Eng**: Number mode

 **Eng**: Symbol mode

- Press and hold [**#**] to switch between T9 and ABC modes.
- Press and hold [*****] to switch to Symbol mode.

Using ABC mode

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

Keys	Characters in order displayed	
	Upper case	Lower case
1	: ; ' ! " /	. , ? ! 1 - ' @ :
2	A B C 2 Ä Å Æ Æ	a b c 2 à ä æ å ç
3	D E F 3 É Δ	d e f 3 é è
4	G H I 4 Θ	g h i 4 ì
5	J K L 5 Λ	j k l 5
6	M N O 6 Ñ Ò Ø Æ	m n o 6 ñ ò ö ø
7	P Q R S 7 Π Σ	p q r s 7 β
8	T U V 8 Ü Φ	t u v 8 ù ü
9	W X Y Z 9 Ψ Ω	w x y z 9
0	0 * < > % # £	0 + () & _ \$

Tips for using ABC mode

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

Tips for using T9 mode

- Press [1] to enter periods or apostrophes automatically.
- Press [✖] to change case. Lower case (No indicator), Initial capital (⬆), and Capital lock (⬆) are available.
- Press [#] to insert a space.
- Press the Left or Right 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 entered symbol(s)	[C].
insert the symbol(s)	< OK >.

Call functions

Advanced calling features

Making a call

1. In Idle mode, enter the area code and phone number.
2. Press [↵].

- ☒ • 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.

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. 31

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

1. In Idle mode, enter the location number for the phone number you want and press [#].
2. Press [Left] or [Right] to scroll through other numbers.
3. Press <**Dial**> or [↶] to dial the number you want.

Ending a call

Close the phone or press [⏏].

Answering a call

When you receive an incoming 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, except for <**Reject**>, [⏏], and [▲/▼]. ► p. 67
- When **Active folder** is active, you can simply open the phone. ► p. 67
- Press <**Reject**> or [⏏] to reject a call.
- Press and hold [▲/▼] to reject a call or mute the ringer, depending on the **Volume key** setting. ► p. 67

Viewing missed calls

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

1. Press <**View**>.
2. If necessary, scroll through the missed calls.

3. Press [↶] to dial the number you want.

Using the headset

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

Connect the headset to the jack on the left side of the phone.

The button on the headset works as listed below:

To	Press
redial the last call	the button and then press and hold it again.
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.

Placing a call on hold/Retrieving

Press <**Hold**> or <**Retrieve**> to place a call on hold or retrieve the call.

Making a second call

You can make another call if your network supports it.

1. Press <**Hold**> to put the call on hold.
2. Make the second call in the normal way.
3. Press <**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 it and you have activated the call waiting feature. ► p. 70

Call functions

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

Using the Speakerphone feature

Use the speakerphone feature to talk and listen with the phone a short distance away.

Press [OK/ ] to activate the Speakerphone feature. Press the key again to switch back to the earpiece.

Using In-call options

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

- **Voice clarity on/Voice clarity off:** increase the microphone's sensitivity so that the other person on the phone can hear you more clearly even though you may be whispering.

- **Mute/Unmute:** switch off the phone's microphone so that the other person on the phone cannot hear you, or switch it back on.
- **Phonebook:** access the contact list.
- **Mute keys/Send keys:** switch the key tones on or off.



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

- **Send DTMF:** send the DTMF (Dual tone multi-frequency) tones as a group. The DTMF tones are the tones used in phones for tone dialling, sounding when you press the number keys. This option is helpful for entering a password or an account number when you call an automated system, like a banking service.
- **Message:** read an incoming message and send a new message. ► p. 60
- **Switch to headset/Switch to phone:** switch the call to a Bluetooth headset or hands-free car kit or back to the phone.

- **SIM service:** access special services, such as news, weather forecasts, entertainment, and location services, provided by your SIM card. This option is available when you use a SIM card supporting SIM AT menus.
- **Join:** set up a multi-party call by adding a caller on hold to a currently active call. You can include up to five people on a multi-party call.
- **Private:** 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 to the multi-party call.
- **Remove:** disconnect one multi-party call participant.

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 <**Menu**> in Idle mode and select **Phonebook**.

Add new contact *(Phonebook 1)*

Use this menu to add a new contact to Phonebook.

Storing a number in the phone's memory

1. Select **Phone**.
2. Change the settings or enter information about the contact.
 - **First name/Last name:** assign a name.

- **Mobile/Home/Office/Fax/Other:** add a number in any category.
 - **Email:** assign an e-mail address.
 - **Graphic ID:** assign an image as a caller ID image to alert you to a call from the person.
 - **Alert:** assign a ringtone to alert you to a call from the person.
 - **Group:** assign the person to a caller group.
 - **Notes:** add a memo about the person.
3. Press **<Save>** to save the contact.

Storing a number on the SIM card

1. Select **SIM**.
2. Enter information about the contact:
 - **Name:** assign a name.
 - **Phone number:** add a number.
 - **Location:** assign a location number.



To assign a caller ID image, ringtone, or group, the contact must be saved to the phone's memory.

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

Contact list *(Phonebook 2)*

Use this menu to search for numbers in Phonebook.

Finding an entry

1. Enter the first few letters of the name that you want to find.
2. Select the name you want from the list.
3. Press [↶] to dial the number, or [OK/↵] to edit the contact information.

Using Phonebook options

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

- **Edit:** edit contact information.
- **Send message:** send an SMS, MMS, or e-mail message.
- **Copy:** copy the selected number to the phone's memory, the SIM card, or the FDN list.
- **Send via:** send the contact via SMS, MMS, e-mail, or Bluetooth.
- **Delete:** delete the selected contact.

- **Print via Bluetooth:** print contact information by connecting the phone to a printer via Bluetooth.

Group *(Phonebook 3)*

Use this menu to organise your contacts in caller groups.

Adding members to a caller group

1. Select a group.
2. Press **<Add>**.
3. Select the contact you want.
4. To add more members, press **<Options>** and select **Add**. Repeat steps 3 and 4.

Managing caller groups

While viewing the group list, press **<Options>** to access the following options:

- **View:** display the members of the selected group.
- **Add:** add a new group.
- **Edit:** edit the properties of the selected group.

- **Send message:** send an SMS, MMS, or e-mail message to the members you want.
- **Delete:** delete the selected group. Group members, however, are not deleted from Phonebook.

Speed dial *(Phonebook 4)*

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

Assigning speed dial numbers

1. Select a key location from **2** to **9**. Key **1** is reserved for your voicemail server.
2. Select a contact from the contact list or the FDN list.
3. Scroll to a number, if the contact has more than one number.
4. Press **<Select>**.

Managing speed dial entries

From the Speed dial screen, press **<Options>** to access the following options:

- **Add:** assign a number to an unassigned key.
- **View:** display the name and number assigned to a key.
- **Change:** assign a different number to a key.
- **Remove:** clear the speed dial setting for a key.

Dialling speed dial entries

Press and hold the appropriate key in Idle mode.

My name card *(Phonebook 5)*

Use this menu to create your name card and send it to other people.

Saving your name card

The procedure for creating your name card is the same as the one for saving a phone number in the phone's memory. ► p. 29

Using name card options

After saving your name card, press <**Options**> to access the following options:

- **Edit:** edit the name card.

- **Send via:** send the name card via SMS, MMS, e-mail, or Bluetooth.
- **Exchange namecard:** exchange name cards with another person via Bluetooth.
- **Remove:** delete the name card.
- **Print via Bluetooth:** print name card information by connecting the phone to a printer via Bluetooth.

Own number *(Phonebook 6)*

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 in your SIM card.

FDN list *(Phonebook 7)*

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, if your SIM card supports this feature. You can activate FDN mode in the **FDN mode** menu. ► p. 74

Adding a contact

1. From the FDN list, press <**Options**> and select **Add**.
2. Enter your PIN2 and press <**OK**>.
3. Enter information about the contact.
 - **Name**: assign a name.
 - **Phone number**: add a number.
 - **Location**: assign a location number.
4. Press <**Save**> to save the contact.

Using Phonebook options

You can access contact options by pressing <**Options**> in Contact list.

Management *(Phonebook 9)*

Use this menu to manage Phonebook.

- **Default saving**: select a default memory location to save contacts. If you select **Ask on saving**, the phone will ask you to select a memory location when saving a number.

- **Copy all to phone**: copy all of the contacts stored on the SIM card to the phone's memory.
- **Sort by contacts**: sort your contacts by the first name or last name.
- **Delete all**: delete all of the contacts from your phone's memory, your SIM card, or the FDN list.
- **Memory status**: display the number of contacts you have stored in the phone's memory, the SIM card, and the FDN list.

Voice note *(Menu 1)*

Call records *(Menu 2)*

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

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

All calls (Menu 2.1)

This menu displays the most recent calls dialled, received, or missed.

Accessing a call record

1. Press [Left] or [Right] to select a call type.
2. Press [Up] or [Down] to scroll to a call record.
3. Press [OK/↵] to view the details of a call, or [↶] to dial the number.

Using call record options

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

- **Save as contacts:** save the phone number to Phonebook.
- **Send message:** send an SMS or MMS message.
- **Delete:** delete the selected call record or all records.

Missed calls (Menu 2.2)

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

Incoming calls (Menu 2.3)

This menu displays the most recent calls you have received.

Outgoing calls (Menu 2.4)

This menu displays the most recent calls you have dialled.

Delete all (Menu 2.5)

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

1. Press [OK/↵] to check the call records to be cleared.
2. Press <Delete>.
3. Press <Yes> to confirm the deletion.

Call time (Menu 2.6)

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. 74

Call costs (Menu 2.7)

This network feature displays the cost of calls. This menu is available only if your SIM card supports this feature. 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.

t-zone (Menu 3)

The Wireless Application Protocol (WAP) browser on your phone allows you to access the wireless web. Using the web browser, you can access up-to-date information and a wide variety of media content, such as wallpapers, ringtones, and music files.

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

Home (Menu 3.1)

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/↵] in Idle mode.

Navigating the web browser

To	Press
scroll through browser items	[Up] or [Down].
select a browser item	<✓>.
return to the previous page	< Back > or [C].

Using browser menu options

From any web page, select  or press [✱].

- **Back**: go back to the previous page.
- **Home**: go back to the homepage.
- **Exit**: exit the web browser.
- **Reload**: reload the current page.
- **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 information and copyright for your web browser.

Using web page options

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

- **Go to URL**: enter a URL address manually.
- **Bookmarks**: switch to the **Bookmarks** menu. ▶ p. 36
- **Messages**: check the messages stored in the **My messages** folder. You can also create and send a new SMS message. ▶ p. 40
- **File manager**: switch to the **File manager** menu. ▶ p. 60

Exiting the web browser

Press [] to exit the browser.

Bookmarks *(Menu 3.2)*

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

Adding a bookmark

1. Select an empty location.
2. Enter a name for the bookmark and press [Down].
3. Enter a URL address and press [OK/✓].

Accessing a bookmarked page

Scroll to a bookmark item and press [OK/↵].

Using bookmark options

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

- **Go**: access the bookmarked website.
- **Edit**: edit the bookmark.
- **Delete**: delete the selected bookmark or all bookmarks.

Go to URL (Menu 3.3)

Use this menu to manually enter the URL address of a website and access the website.

Clear cache (Menu 3.4)

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

Instant messaging (Menu 4)

Messages (Menu 5)

Use the **Messages** menu to send and receive text messages, multimedia messages, and e-mails. You can also use push message and cell broadcast message features.

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

Create new (Menu 5.1)

Use this menu to create and send SMS, MMS, or e-mail messages.

Text message (Menu 5.1.1)

Short Message Service (SMS) allows you to send or receive text messages that may include pictures, animated images, and melodies.

1. Enter your message.

- ☒ The maximum number of characters allowed in a text message varies by your service provider. If your message exceeds the maximum number of characters, the phone will split the message.

2. Press **<Options>** to access the following options for creating a message:
 - **Insert:** add a template, Phonebook entry, or bookmark.
 - **Add picture/Add animation/Add melody:** attach a simple image, animated image, or melody.
 - **Attach:** attach a name card or calendar data as a data format attachment.
 - **Text style:** change the text attributes.
3. When you finish, press **<Options>** and select **Save and send** or **Send only**.
4. Enter a destination number.

To send the message to more than one recipient, fill in additional destination fields.
5. Press [OK/↵] to send the message.

Multimedia messages (Menu 5.1.2)

Multimedia Message Service (MMS) allows you to send or receive multimedia messages containing a combination of text, image, video, and audio, from phone to phone or from phone to e-mail.

1. Select the **Subject** line.
2. Enter the message subject and press [OK/↵].
3. Select the **Picture & Video** or **Sound** line and add an image, a video, or a sound file.

- ✓ • The maximum size allowed for an MMS message can differ depending on the country.
 - 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.
5. Enter the message text and press [OK/↵].
6. Press **<Options>** to access the following options for editing the message:
 - **Edit:** edit the subject or text of your message.
 - **Change image/Change video/Change sound:** replace an added item.
 - **Add page:** add pages. Move to each page by pressing [Left] or [Right] on the message screen.
 - **Delete page:** delete an added page.

- **Edit page:** set the page duration or move the current page to the next or previous page.
 - **Attach:** attach a Phonebook entry as name cards or calendar data as a data format attachment.
 - **Remove subject/Remove message/Remove media/Remove sound:** remove an added item.
7. When you finish, press <**Options**> and select **Send**.
 8. Enter a phone number or e-mail address.
To send the message to more than one recipient, fill in additional destination fields.
 9. Press [OK/↵] to send the message.

Email (Menu 5.1.3)

You can send e-mails that include text and media files, such as images, videos, and audio. To use this feature, you need to subscribe to an e-mail service and set up your e-mail account and profile. ► p. 47

1. Select the **Subject** line.
2. Enter the subject of your e-mail and press [OK/↵].

3. Select the **Message** line.
 4. Enter the e-mail text and press [OK/↵].
 5. Select the **File attach** line and select one of the following options to add files.
 - **Add image/Add videos/Add sounds/Add music:** add media files stored in the phone's memory.
- ☒ Depending on the file type or DRM (Digital Rights Management) system, some files may not be able to be forwarded.
- **Other files:** add document files stored in the **Other files** folder.
 - **Attach:** attach name cards or calendar data as data format attachments.
 6. Press <**Options**> to access the following options to edit the e-mail:
 - **Edit:** edit the subject or text.
 - **Remove subject/Remove message:** clear the subject or text.
 - **Remove:** delete the selected attachment or all attachments.

- **Remove all attachments:** delete all attachments.
7. When you finish, press <**Options**> and select **Send**.
 8. Enter an e-mail address.
To send the e-mail to more than one recipient, fill in additional destination fields.
 9. Press [OK/↵] to send the e-mail.

Inbox (Menu 5.2)

This folder stores all types of the messages you have received, except for e-mails.

Viewing a message

The following icons may appear on the message list to show the message type:

-  SMS
-  MMS
-  MMS notification (📶: Being retrieved, ✖: Failed to retrieve)

-  Push messages



- Depending on the DRM (Digital Rights Management) system, messages having web content may not be able to be forwarded.
- An ! icon next to a message means that the message is of high priority. A grey-coloured message icon indicates low priority.
- If you receive vcards or vcalendar data as an SMS message from another manufacturer's phone, the message will not display correctly.

Using message options

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

SMS messages

- **Reply via:** send a reply message via SMS or MMS.
- **Forward:** forward the message to other people.
- **Delete:** delete the message.
- **Move to phone/Move to SIM:** move the SMS message to the phone's memory or the SIM card.
- **Add to block list:** add the sender's number to the Block number list.

- **Cut address:** extract URLs, e-mail addresses, or phone numbers from the message.
- **Cut media:** save media content from the message into your phone's memory.
- **Protection:** protect the message from being deleted.
- **Print via Bluetooth:** print the message by connecting the phone to a print via Bluetooth.

MMS messages/MMS notifications

- **Retrieve:** retrieve the MMS message.
- **Reply via SMS:** send a reply message via SMS.
- **Reply via MMS to:** send a reply message via MMS.
- **Forward:** forward the message to other people.
- **Delete:** delete the selected message.
- **Add to block list:** add the sender's number to the Block number list.
- **Cut address:** extract URLs, e-mail addresses, or phone numbers from the message.

- **Cut media:** save media content from the message into your phone's memory.
- **Properties:** access the message properties.

Push messages

- **Go to URL:** connect to the URL from which the message is sent.
- **Delete:** delete the message.
- **Cut address:** extract URLs, e-mail addresses, or phone numbers from the message.

Delivery reports

- **Delete:** delete the report.

Sentbox *(Menu 5.3)*

This folder stores messages that you have sent.

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

- **Open file:** open the selected file.
- **Save file:** save the selected file.
- **Forward:** forward the message to other people.

Menu functions

- **Delete:** delete the selected message.
- **Move to phone/Move to SIM:** move the message to the phone's memory or the SIM card.
- **Protection:** protect the message from being deleted.
- **Print via Bluetooth:** print the message by connecting the phone to a printer via Bluetooth.
- **Properties:** access the message properties.

Outbox *(Menu 5.4)*

This folder stores messages that the phone is attempting to send or has failed to send.

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

- **Cancel sending:** cancel sending the message, if the message is being sent.
- **Open file:** open the selected file.
- **Save file:** save the selected file.
- **Send again:** resend the message.
- **Forward:** forward the message to other people.
- **Delete:** delete the selected message.

- **Move to phone/Move to SIM:** move the message to the phone's memory or the SIM card.
- **Protection:** protect the message from being deleted.
- **Print via Bluetooth:** print the message by connecting the phone to a printer via Bluetooth.
- **Properties:** access the message properties.

Draft *(Menu 5.5)*

This folder stores messages you have saved to send at a later time.

- When you select a message, it opens in Edit mode so that you can edit and send the message.

Templates *(Menu 5.6)*

Use this menu to make and use templates of frequently used messages.

Text template *(Menu 5.6.1)*

You can create SMS templates with the sentences you use frequently so that you can retrieve and insert them when composing an SMS message.

Creating a template

1. Select an empty location.
2. Enter a message and press [OK/↵].

Using template options

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

- **Edit:** edit the template.
- **Send message:** send the template as an SMS, MMS, or e-mail.
- **Delete:** delete the selected template.

MMS template (Menu 5.6.2)

You can access default MMS templates or ones you have saved so that you can use them in composing an MMS message.

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

- **View:** open the template.
- **Send message:** send the template as an MMS message.

- **Edit:** edit the template.
- **Add new:** add a new template.
- **Delete:** delete the selected template or all templates. You cannot delete the default templates.

Voice mail (Menu 5.7)

Delete all (Menu 5.8)

Use this menu to delete all of the messages in each message folder all at once.

1. Press [OK/↵] to check the message boxes you want.
2. Press <**Delete**>.
3. Press <**Yes**> to confirm the election.

Settings (Menu 5.9)

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

Text message (Menu 5.9.1)

You can configure the SMS settings.

- **Send settings:** set up the options for sending SMS messages:
 - Reply path:** allow the recipient to reply to you through your SMS server.
 - Delivery report:** set the network to inform you when your message has been delivered.
 - 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.
 - Service centre:** store or change the number of your SMS server.
- **Block number:** specify phone numbers from which messages will not be accepted.

Multimedia message (Menu 5.9.2)

You can configure the MMS settings.

- **Send settings:** set up the options for sending MMS messages:

Delivery report: set the network to inform you when your message has been delivered.

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

Read reply: determine whether or not the phone sends a read-reply request.

Priority: set the priority level of your outgoing messages.

Expiry Date: set the length of time your messages are stored in the MMS server.

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

Send size: select the maximum file size of MMS attachment. This file size may vary, depending on your country.

- **Receive settings:** set up the following options for receiving multimedia messages:

Anonymous reject: reject messages from anonymous senders.

Advert allowed: accept advertisements.

Report allowed: send a delivery report from the network to the sender.

Home reception: determine if your phone retrieves new messages automatically when you are in your home service area.

Roaming reception: determine if your phone retrieves new messages automatically when you are roaming in another network.

Home reception and Roaming reception have the following options:

- **Automatic:** the phone automatically retrieves messages from the server.
- **Reject:** the phone rejects all messages.
- **Manual:** the phone displays notifications. Use the **Retrieve** option to manually download new messages.
- **MMS profiles:** configure required network settings for MMS.

Current profile: select a connection profile.

Profile settings: customize the following options for each profile:

- **Profile name:** enter a name for the current profile.
 - **Server URL:** enter the address of your MMS server.
 - **Proxy:** connect to the GPRS network using the proxy server.
 - **GPRS settings:** customize the settings required for connecting to the GPRS network.
- When the proxy is set to **Enable:**
- IP address:** enter the IP address.
 - Port:** enter the port number.
 - APN:** enter the access point name used for the address of the GPRS network.
 - Login ID:** enter the user ID.
 - Password:** enter the password.
- When the proxy is set to **Disable:**
- DNS1:** enter the primary address.
 - DNS2:** enter the secondary address.
 - APN:** enter the access point name used for the address of the GPRS network.

Login ID: enter the user ID.

Password: enter the password.

- **Version:** select an available OMA version and maximum size limit for sending or receiving messages.

☒ Depending on your service provider, it may not be possible to support the maximum limit 295KB. In this case, try again after changing the setting to 100KB.

- **Block number:** specify phone numbers from which messages will not be accepted.

Email (Menu 5.9.3)

You can configure the e-mail settings.

☒ You cannot change e-mail profile and account settings while an e-mail is being sent or retrieved.

- **Send settings:** set up the following options for sending e-mails.
Send copy to self: send a copy of your e-mails to your own e-mail address.

Delivery confirm: set the network to inform you when your e-mails have been delivered.

Read confirm: send a request for a reply along with your e-mail.

Priority: select the priority level of your outgoing e-mail.

Include signature: select to attach your name, phone number, a simple memo, or a tag line to your e-mails.

Edit name: enter the name in your signature.

Edit telephone number: edit the phone number in your signature.

Edit note: edit the tag line in your signature.

- **Receive settings:** set up the following options for receiving e-mails.

Check interval: determine how often the phone checks the server for incoming e-mails.

If you set this option to **Not used**, you can use the **Check new mail** feature to check your e-mail manually.

Read reply: determine whether or not the phone sends a read-reply for incoming e-mails.

If you select **Announce**, the phone reminds you to send a read-reply.

Retrieve option: determine whether the phone retrieves headers only or the entire e-mail.

Delete option: determine whether e-mails are deleted immediately or the next time you connect to the server.

Reject if over: determine the maximum size for incoming e-mails. Your phone will reject e-mails that exceed the specified size.

Leave a copy of messages on the server: leave copies of e-mails after retrieving.

- **Email account:** set up your e-mail accounts and select one to be used:

Current account: select an account.

Account settings: configure up to five e-mail accounts using different e-mail servers. Set the options available for each account:

- **In use:** select this option to use the account and to display the account in the **Email box**.
- **Account name:** enter a name for the currently selected account.
- **User name:** enter a name to be displayed as the sender's name in your outgoing e-mails.
- **Email address:** enter your e-mail address.
- **Reply address:** enter your e-mail address to be used when the recipient sends a reply.
- **User ID:** enter your e-mail ID.
- **Password:** enter your e-mail password.
- **SMTP server:** enter the IP address or domain name of the outgoing e-mail server.
- **SMTP port:** enter the SMTP port number.
- **Protocol type:** select the protocol for the incoming e-mail server. The remaining options depend on the protocol type setting.

*When the protocol type is **POP3**:*

- **POP3 server:** enter the IP address or domain name of the server that receives your e-mail.
- **POP3 port:** enter the POP3 port number.
- **APOP login:** connect to the server by using the APOP login scheme when this option is selected.

When the protocol type is **IMAP4**:

- **IMAP4 server:** enter the IP address or domain name of the server that receives your e-mail.
- **IMAP4 port:** enter the IMAP4 port number.
- **Include attachments:** select this option to receive attachments with e-mails.
- **Max. Emails retrieved:** set the number of headers you will retrieve from the server.
- **Email profile:** configure the network settings required to send or receive e-mails.
Current profile: select a profile.
Profile settings: configure up to five e-mail profiles. For each profile, the following options are required to connect to the GPRS network:

- **Profile name:** enter a name for the e-mail profile.
- **APN:** enter the access point name used for the GPRS network address.
- **Login ID:** enter the user ID.
- **Password:** enter the password.
- **DNS1:** enter the primary address.
- **DNS2:** enter the secondary address.
- **Block list:** specify e-mail addresses from which messages will not be accepted. You can also specify message subjects that you will not accept.

Push message (Menu 5.9.4)

You can change the settings for receiving push messages from the wireless web server.

- **Receive:** set how your phone receives push messages.
- **Service centre:** specify the address of the server from which you want to receive push messages.

Broadcast messages *(Menu 5.10)*

The Cell Broadcast service delivers short messages on various topics, such as weather, sports, or traffic.

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

- **Read:** open received messages.
The **Temporary** box saves network messages until the phone is switched off.
The **Archive** box saves network messages indefinitely. Press <**Options**> and select **Save** to save messages to the **Archive** box when a text notification appears.
- **Receive:** enable or disable the reception of broadcast messages.
- **Channel:** specify the channels from which you receive broadcast messages.
- **Language:** select the language in which broadcast messages display.

Please contact your service provider for details.

Memory status *(Menu 5.11)*

Use this menu to view the amount of memory currently in use in each folder.

Fun & Apps *(Menu 6)*

Use this menu to play Java and Motion games, to play music files, to enjoy beatbox, to record a voice memo, to set time zones and alarms, or to use your phone as a calculator, timer, converter, or stopwatch.

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

File manager *(Menu 6.1)*

The **File manager** menu allows you to access images, videos, music files, sound files, and other files stored in the phone's memory.

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

☒ According to the DRM (Digital Rights Management) system, web content may not be able to be forwarded.

Sounds

This menu displays voice memos you have recorded, and sound files you have downloaded, received in messages, or imported from your computer.

Playing a sound clip

1. Select a sound folder.

To access voice memos, scroll to the **Voice list** folder. ► p. 55

2. Select a sound clip.

During playback, you can use the following keys:

Keys	Function
OK/⏏	Stops playback.
Left	Goes to the previous file.

Keys	Function
Right	Skips to the next file.
Up/Down/▲/▼	Adjusts the volume.

Using sound options

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

- **Play:** play the file.
- **Send via:** send the file via MMS, e-mail, or Bluetooth.
- **Set as:** set the file as your ringtone or as a caller alert melody, or alarm melody.
- **Delete:** delete the file.
- **Rename:** change the file name.
- **Move to favourite sounds/Move to downloaded sounds/Move to voice list:** move the file to another folder.
- **Share for Bluetooth:** share the file with other Bluetooth devices.

- **Protection:** protect the file from being deleted.
- **Properties:** access the file properties.

Images

This menu displays photos you have taken and images you have downloaded, received in messages, or imported from your computer.

Viewing an image

1. Select an image folder.
2. Select an image.

Using image options

While viewing an image, press <**Options**> to access the following options:

- **List:** return to the image list.
- **Send via:** send the file via MMS, e-mail, or Bluetooth.
- **Set as:** set the file as your wallpaper for the external or main display, or as a caller ID image for a Phonebook entry.
- **Edit:** decorate the photo by adding emoticons or applying a frame or special effect.

- **Delete:** delete the file.
- **Rename:** change the file name.
- **Move to favourite images/Move to:** move the file to another folder.
- **Slide show:** set all images to display as a slide show.
- **Share for Bluetooth:** share the selected file or all files with other Bluetooth devices.
- **Print via Bluetooth:** print the file by connecting the phone to a printer via Bluetooth.
- **Protection:** protect the file from being deleted.
- **Properties:** access the file properties.

Videos

This menu displays video clips you have recorded, downloaded, received in messages, or imported from your computer.



Video clips recorded on other devices, such as camcorders, may not play correctly.

Playing a video clip

1. Select a video folder.

2. Select a video clip.

During playback, you can use the following keys:

Keys	Function
OK/⏏	Pauses or resumes playback.
Left	Moves backward.
Right	Skips forward.
▲/▼	Adjusts the volume.
Down	Stops playback.

Using video options

From the player screen, press <⏏> to access the following options.

- **Play:** play the file.
- **Send via:** send the file via MMS, e-mail, or Bluetooth.
- **Delete:** delete the selected file.
- **Rename:** change the file name.
- **Move to favourite videos/Move to:** move the file to another folder.

- **Share for Bluetooth:** share the selected file with other Bluetooth devices.
- **Protection:** protect the file from being deleted.
- **Properties:** access the file properties.

Music

This menu displays music files you have downloaded, received in messages, or imported from your computer.

Select a file. The MP3 player opens. ► p. 53

Other files

Files that you have received but which are not supported by your phone are stored in this folder. You cannot open these files on the phone. Unsupported file formats include *.doc, *.ppt, and *.txt.

Memory card

Memory status

You can check the total amount of memory for media items and the amount of memory currently in use in each media box.

MP3 Player (Menu 6.2)

Use this menu to enjoy music. First, you need to save MP3 files in your phone's memory. To enjoy high quality music, you can use an optional Bluetooth stereo headset.

- ☑ • Normal headsets are not compatible with the MP3 player.
- You can listen to MP3 files using a Bluetooth stereo headset. AAC or AAC+ files are not compatible with the Bluetooth stereo headsets.

Downloading or receiving music files

Use these methods to save MP3 files to your phone's memory:

- Download from the wireless web ► p. 35
- Download from a computer using the Samsung PC Studio program ► Samsung PC Studio User's Guide
- Receive via Bluetooth ► p. 73

Creating a play list

Add MP3 files to the play list so you can play them.

1. From the MP3 player screen, press <**Options**> and select **Add to list**.
2. Select either of the following options:
 - **Add all**: add all of the files in the phone's memory to the play list.
 - **Add a file**: add a file to the play list.
3. If you selected **Add a file**, press [OK/↵] to check the files to be added and press <**Add**>.
4. Press <**Back**> to go back to the MP3 player screen.

Playing music files

From the MP3 player screen, press [OK/↵].

During playback, use the following keys:

Keys	Function
OK/↵	Pauses or resumes playback.
Left	Moves back to the previous file. Moves backward in a file when held down.

Keys	Function
Right	Skips to the next file. Skips forward in a file when held down.
Up	Opens the play list.
Down	Stops playback.
▲ / ▼	Adjusts the volume level.
2	Changes the skin image.
3	Changes the repeat mode.
6	Turns Shuffle mode on or off.

Using the Movement Recognition feature

During playback, close the phone without interrupting you can enjoy MP3 music with the phone closed.

You can control the MP3 player using the movement recognition feature. This means that you can move the phone to perform the tasks, instead of keying in commands.

Using player options

During playback, press <**Options**> to access the following options:

- **Play/Pause:** begin or pause playback.
- **Transfer to A/V headset:** switch to Bluetooth headset mode.
- **Open play list:** display the play list.
- **Delete:** delete the file.
- **Settings:** change the default settings for playing music files.

Repeat mode: select a repeat mode.

Shuffle: set the MP3 player to play music in random order.

Visualization: select a skin image.

Volume: select a volume level.

- **Properties:** access the file properties.
- **Gesture help:** show the keys you can use during playback.

Accessing the play list

From the MP3 player screen, press [Up]. Press <**Options**> to access the following options:

- **Play via:** select a sound output mode.
- **Add to list:** add files to the play list.
- **Move list:** move the file to the position you want within the play list.
- **Remove:** remove the selected file or all files from the play list.
- **Gesture help:** show the keys you can use during playback.

Voice recognition *(Menu 6.3)*

Use this menu to record voice memos. A voice memo can be up to one hour long.

Recording a voice memo

1. Press [OK/⏏] to start recording.
2. Speak into the microphone.
Press [OK/⏏] to pause or resume the recording.
3. When you finish, press <**Save**>. The voice memo is saved automatically.
4. Press [OK/⏏] to review the voice memo, or [Up] to record a new memo.

Playing a voice memo

1. From the Voice record screen, press <**Options**> and select **Go to voice list**.
2. Select a voice memo. The memo plays.

During playback, use the following keys:

Keys	Function
OK/⏏	Pauses or resumes playback.
Left	Moves backward in a memo.
Right	Moves forward in a memo.
Up	Switch to Record mode.
▲/▼	Adjusts the volume.
Down	Stops playback.

Changing the voice recorder settings

You can change the recording settings for the voice recorder. Before recording a maximum voice memo, press <**Options**> and select **Settings** to access the following options:

- **Recording time:** select a maximum recording time.
- **Volume:** select a volume level.
- **Default name:** change the default prefix of the voice memo.

Games (Menu 6.4)

Use this menu to access and play Java games and to set up a profile for accessing Java services.

Playing Screamer

1. From the Java world screen, select **Downloads** → **Screamer**.
2. Press any key except [] and [].
3. Select **NEW GAME** → a game mode.
4. Press [OK/↵] to start a game.
5. Enter a character name and press [OK/↵].
6. Set height, weight, and nation for the character and press [OK/↵].
7. Set length, width, and weight for the luge and press [OK/↵].

8. Press [OK/↵] to start game.
9. Tilt the phone up to make the character move forward.
10. Tilt the phone up or down to adjust the speed of the luge.
Tilt the phone to the left or right to change the direction of the luge.



During a game, press <Menu> to access game options.

Playing Pharaoh's Treasure

1. From the Java world screen, select **Downloads** → **Pharaoh's Treasure**.
2. Press any key except [].
3. Select **Start** → **New Game**.
4. Press <OK>.
5. Tilt the phone to the right to make the character move forward.
6. Tilt the phone to the left, right, up, or down to move the character.

- ☒ During a game, press <**MENU**> to access game options.

Playing Freekick

1. From the **Java world** menu, select **Downloads** → **Freekick**.
2. Press any key except [].
3. Select **Game** → the game mode you want → a team → a player.
4. Press [**OK/⏏**] to start a game.

- ☒ During a game, press [**#**] to access game options.

Using Java game options

From the Java world screen, select **Downloads** and press <**Options**> to access the following options:

- **Launch:** launch the selected game.
- **Application settings:** set a game to be continued when a call comes in or an alarm sounds during the game. You can also set the phone to exchange game information with the network while playing

an online game or when you need to connect to the Internet.

- **Delete:** delete the selected game.
- **Properties:** access the game properties.

Configuring Java settings

You can configure profile settings for accessing Java services.

1. From the Java world screen, select **Settings**.
2. Change the following settings:
 - **APN:** enter the access point name.
 - **Login ID:** enter the user ID.
 - **Password:** enter the password.
 - **Proxy:** select whether or not you use a proxy server to access network services. Depending on this setting, options in **Proxy settings** vary.
 - **Proxy settings:** provide you with the following options:

*When the proxy is set to **Enable**:*

IP address: enter the HTTP proxy IP address.

Port: enter the proxy port number.

When the proxy is set to **Disable**:

DNS1: enter the primary address.

DNS2: enter the secondary address.

Checking memory status

You can view the total amount of memory for the Java games as well as the amount of used memory.

From the Java world screen, select **Memory status**.

Image editor (Menu 6.5)

Use this menu to set your local time zone and find out what time it is in another part of the world.

Setting your local time zone

1. From the world map, press [Left] or [Right] to select the city that corresponds to your home time zone. As the time line moves, the time and date of the given zone display.
2. Press [OK/↵] to save the time zone.

Viewing and setting a foreign time zone

1. From the world map, press [Down].

2. Press [Left] or [Right] to select the foreign time zone you want.

3. Press [OK/↵] to save the time zone.

Applying Daylight Savings Time (DST)

1. From the world map, press <**Options**> and select **Set daylight saving time**.
2. Press [OK/↵] to check the time zones you want.
3. Press <**Save**>.

Organizer (Menu 6.6)

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 setting.

Setting an alarm

1. Select the type of alarm.
2. Set each alarm option.
 - **Alarm**: activate the alarm.
 - **Alarm time**: enter the time for the alarm to ring.

- **AM/PM:** set **AM** or **PM** in 12-hour format.
- **Alarm day:** select the alarm days.
- **Alarm tone:** select an alarm tone.

3. Press **<Save>**.

Stopping an alarm

- For an alarm, press any key to stop the alarm.
- For a morning call alarm, press **<OK>** or **[OK/⏏]** to stop the alarm.

Press any key, except **<OK>** and **[OK/⏏]**, to stop the alarm and cause it to sound again after 5 minutes. You can do this a maximum of 5 times.

- To deactivate an alarm, access it from the Alarm list and select **Off** from the **Alarm** field.

Setting the alarm to ring even if 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 ring, the phone is switched on and sounds the alarm.

Calculator

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 brackets.
 - Press **[*]** or **[#]** to move the cursor.
2. Enter the operation for your calculation by pressing the Navigation keys.
3. Enter the second number.
4. Press **[OK/⏏]** to view the result.

Converter

Use this menu for common conversions, such as temperature.

Performing a conversion

1. Select the converter type you want.
2. Press **[Left]** or **[Right]** to select the original unit and press **[Down]**.
3. Enter the value to be converted and press **[Down]**.

Menu functions

- Press [**✖**] to insert a decimal point.
 - Press [**#**] to change the temperature to above zero (+) or below zero (-).
4. Press [**Left**] or [**Right**] to select the unit you want to convert to.
- The equivalent value for the amount you entered displays.

Timer

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

Starting the timer

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

Stopping the timer

- Press **<Back>** or any key when the timer rings.
- Press [**OK/↵**] on the Timer screen to stop the timer before it rings.

Stopwatch

Use this menu to measure elapsed time. The precision of the stopwatch is one one-hundredth of a second. The maximum measurement time is 10 hours.

1. Press [**OK/↵**] to start the stopwatch.
2. Press [**OK/↵**] to check an interval. You can repeat this step for a total of 4 intervals.

Get More Help *(Menu 7)*

Camera *(Menu 8)*

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

To access this menu, press **<Menu>** in Idle mode and select **Camera**, or press and hold **[B]**.



- 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.

Taking a photo

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.

1. Open the phone.
2. Access the **Camera** menu or press and hold  to turn on the camera.
The image to be captured appears on the display.
3. Aim the image by aiming the camera lens at the subject.
 - Press  to access camera options.
▶ next section
 - Use the keypad to change camera settings or switch to other modes. ▶ p. 62
4. Press  to take a photo. The photo is saved in the **Photos** folder.

To	Press
use photo options	<Options>. ▶ p. 63

To	Press
delete the photo	<Delete> and then <Yes>.
return to Capture mode	[OK/✓].

Using camera options in Capture mode

In Capture mode, press  to access the following options:

- **Record video:** switch to Record mode.
- **Shooting mode:** take a photo in the following modes:
 - Single shot:** take a photo in the normal mode. You can select whether or not the camera automatically saves a photo.
 - Multi shot:** take a series of action stills. You can select the number of photos the camera will take and the shutter speed.
 - Mosaic shot:** take several stills and save them in one frame. You can select the layout.
- **Effects:** change the colour tone or apply a special effect.

- **Frames:** apply a decorative frame.
- **Timer:** set a time delay before the camera takes a photo.
- **Go to photos:** go to the **Photos** folder.
- **Settings:** change the default settings for taking a photo.

Size: select an image size.

Quality: select an image quality setting.

View finder: select a preview mode, either Full screen mode or Standard ratio mode with actual ratio.

ISO: change the ISO setting, which controls the sensitivity of your camera. For low light situations, lower the ISO number to increase the image quality. The higher the ISO number, the faster the camera shutter functions and the more sensitive the camera is to light. Higher ISO settings may bring some distortion to an image.

Spot focus: adjust the exposure based on a specific area of the image. Select **On** to display the spot focus frame in the middle of the image, and

change the exposure according to the brightness of the image fragment in the frame.

Shutter sound: select the sound that you hear when you press the shutter release,  or [OK/⏏].

Zoom sound: turn the sound effect for zooming on or off.

Brightness sound: turn the sound effect for brightness adjustment on or off.

Default name: change the default prefix of the photo name.

- **Camera short cuts:** view the functions of the keys you can use in Capture mode.

Using the keypad in Capture mode

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

Keys	Function
▲	Flips the image vertically.
▼	Shows the mirror image.
Left/Right	Adjusts the image brightness.

Keys	Function
Up/Down	Zooms in or out.
1	Switches to Record mode. ► p. 63
2	Changes the image size.
3	Changes the image quality.
4	Changes the shooting mode and the number of photos.
5	Changes the colour tone or applies a special effect.
6	Reduces the distortion on the image to maximise detail and sharpness.
7	Selects a decorative frame.
8	Sets the timer.
9	Goes to the Photos folder. ► p. 51
*	Changes the preview screen.

Using photo options

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

- **Take another:** return to Capture mode.
- **Send via:** send the file via MMS, e-mail, or Bluetooth.
- **Set as:** set the file as your wallpaper for the main or external display or as a caller ID image for a Phonebook entry.
- **Delete:** delete the file.
- **Rename:** change file name.
- **Go to photos:** go to the **Photos** folder.
- **Share for Bluetooth:** share the selected file or all files with other Bluetooth devices.
- **Print via Bluetooth:** print the selected file by connecting the phone to a printer via Bluetooth.
- **Protection:** protect the file from being deleted.
- **Properties:** access the file properties.

Recording a video

You can record a video of what is displayed on the camera screen and save it.

1. In Capture mode, press [1].
2. Adjust the image by aiming the camera lens at the subject.
 - Press <📷> to access camera options.
 - ▶ next section
 - Use the keypad to change camera settings or switch to other modes. ▶ p. 65
3. Press [RECORD] to start recording.
4. Press [STOP] to stop recording. The video is automatically saved in the **Videos** folder.

To	Press
play back the video clip	[OK/⏮].
use video options	<📷>. ▶ p. 65
delete the video clip	[C] and then <Yes>.
return to Record mode	the right soft key.

Using camera options in Record mode

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

- **Take a photo:** switch to Capture mode.

- **Effects:** change the colour tone or apply a special effect.
- **Timer:** set a time delay before the camera starts recording.
- **Go to videos:** go to the **Videos** folder.
- **Settings:** change the following settings for recording a video:

Recording mode: select a video recording mode.

Select **Normal** to record a video within the limit of the currently available memory.

Select **Limit of MMS** to record a video suitable for an MMS message.

Size: select a file size.

Quality: select an image quality.

Audio rec.: turn on or off the audio.

Zoom sound: turn the sound effect for zooming on or off.

Brightness sound: turn the sound effect for brightness adjustment on or off.

Default name: change the default prefix of the video clip name.

- **Camcorder short cuts:** view the functions of the keys you can use in Record mode.

Using the keypad in Record mode

You can use the keypad to customize your camera settings in Record mode:

Keys	Function
▲	Flips the image vertically.
▼	Shows the mirror image.
Left/Right	Adjusts the image brightness.
Up/Down	Zooms in or out.
1	Switches to Capture mode. ► p. 61
2	Changes the file size.
3	Changes the image quality.
4	Changes the video recording mode.
5	Changes the colour tone or applies a special effect.

Keys	Function
6	Reduces the distortion on the image to maximise detail and sharpness.
7	Turn on or off the audio.
8	Sets the timer.
9	Goes to the Videos folder. ► p. 51

Using video options

After recording a video clip, press <👉> to access the following options:

- **Record another:** return to Record mode.
- **Send via:** send the file via MMS, e-mail, or Bluetooth.
- **Delete:** delete the file.
- **Rename:** change the file name.
- **Go to videos:** go to the **Videos** folder.
- **Share for Bluetooth:** share the selected file with other Bluetooth devices.
- **Protection:** protect the file from being deleted.
- **Properties:** access the file properties.

Settings (Menu 9)

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

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

Wi-Fi (Menu 9.1)

Time & Date (Menu 9.2)

Use this menu to set the current time and date on your phone.

- **Set time:** enter the current time.
- **AM/PM:** select **AM** or **PM** in 12-hour time format.
- **Time format:** select the time format.
- **Set date:** enter the current date.
- **Date format:** select the date format.

Phone settings (Menu 9.3)

Many different features of your phone's system can be customized to suit your preferences.

Language (Menu 9.3.1)

Use this menu to select one of several languages for the display text.

Greeting message (Menu 9.3.2)

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

Short cut (Menu 9.3.3)

You can use the Navigation keys as shortcut keys to access specific menus directly from Idle mode. Use this menu to assign a shortcut menu to a key.

Assigning a menu to a key

1. Select a key to be used as a shortcut key.
2. Select a menu to be assigned to the key.

Using shortcut options

Press <**Options**> to access the following options:

- **Change:** assign or change a shortcut menu.
- **Remove:** deactivate the shortcut assignment to the selected key.
- **Remove all:** deactivate all shortcut assignments.

Volume key (Menu 9.3.4)

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.

Extra settings (Menu 9.3.5)

You can turn the automatic redialling or answering feature on or off.

- **Auto redial:** set the phone to make up to ten attempts to redial a phone number after an unsuccessful call.
- **Anykey answer:** answer an incoming call by pressing any key, except [📞], <Reject>, and [▲/▼].
- **Voice clarity:** increase the microphone's sensitivity to allow the other person on the phone to hear your voice clearly, even though you may be whispering.
- **Active folder:** answer an incoming call by opening the phone.

Display settings (Menu 9.4)

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

Wallpaper (Menu 9.4.1)

You can set up the idle screen on both displays.

- **Main display:** select an image to be displayed on the main display.
- **Cover display:** select an image or enter text to be displayed on the external display.

Text display (Menu 9.4.2)

You can customize the text appearance for the idle screen.

- **Text position:** select a text position on the display. If you don't want to display text in Idle mode, select **Off**.
- **Text style:** select a text style.
- **Text colour:** select a text colour.

Calendar (Menu 9.4.3)

Use this menu to display the calendar of the current month on the idle screen.

Skin (Menu 9.4.4)

You can select a skin colour for Menu mode.

LCD brightness (Menu 9.4.5)

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

Backlight (Menu 9.4.6)

You can select the length of time the backlight stays on or the length of time the display stays on in Dim mode, in which the backlight is off.

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

Dialing font colour (Menu 9.4.7)

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

Show caller information (Menu 9.4.8)

Use this menu to set the phone to display missed call notifications with the most recently missed caller's

information. To set the external display to show caller information, select **With cover display**.

Service light (Menu 9.4.9)

Use this menu to select the length of time the service light stays on. If you don't want to use the service light, select **Off**.

Sound settings (Menu 9.5)

Use this menu to customize various sound settings.

Incoming call (Menu 9.5.1)

Use this menu to select a volume and alert type for incoming calls.

- **Ring tone:** select a ringtone for the call ringer.
- **Volume:** select a ringer volume.
- **Alert type:** specify how you are to be informed of incoming calls.

Keypad tone (Menu 9.5.2)

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



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

Message tone (Menu 9.5.3)

Use this menu to set up the ringer for incoming **Messages** and **Email**.

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

Power on/off (Menu 9.5.4)

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

Folder tone (Menu 9.5.5)

Use this menu to select the tone that the phone sounds when you open or close the phone.

Quiet mode (Menu 9.5.6)

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

Extra tones (Menu 9.5.7)

Use this menu to customize additional tones for the phone.

- **Minute minder:** set the phone to beep every minute during an outgoing call to keep you informed of the length of your call.
- **Connection tone:** set the phone to beep when it is connected to the system.
- **Alerts on call:** set the phone to beep when you receive a new message or when the time for an alarm comes during a call.
- **Indicative tones:** set the phone to beep when a pop-up window appears to indicate that your phone has completed an operation or that an error occurs.

Network services (Menu 9.6)

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

Call diverting (Menu 9.6.1)

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 the network or when your phone is switched off.
 - **Cancel all:** cancel all call diverting options.
2. Select the type of calls to be diverted.
3. Select **Activate**. To deactivate call diverting, select **Deactivate**.
4. Move to the **Divert to** line.
5. Enter the number to which calls are to be diverted and press **<OK>**.
6. If you selected **No reply**, move to the **Sec** line and select the length of time the network delays before diverting a call.

Call barring (Menu 9.6.2)

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.
 - **All incoming:** prohibit incoming calls.
 - **Incoming while abroad:** prohibit incoming calls when you use your phone outside of your home country.
 - **Cancel all:** cancel all call barring settings, allowing calls to be sent and received normally.
 - **Change barring password:** change the call barring password.
2. Select the type of calls to be barred.
3. Select **Activate**. To deactivate call barring, select **Deactivate**.
4. Enter the call barring password and press **<OK>**.

Call waiting (Menu 9.5.3)

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. Select **Activate**. To deactivate call waiting, select **Deactivate**.

Network selection (Menu 9.6.4)

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

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

Caller ID (Menu 9.6.5)

This network service allows you to prevent your phone number from being displayed on the phone of the person being called. However, some networks do not allow the user to change this setting.

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

Bluetooth (Menu 9.7)

Using the Bluetooth feature, you can connect the phone wirelessly to other Bluetooth devices and exchange data with them, talk hands-free, or control the phone remotely.

Bluetooth technology allows free wireless connections between all Bluetooth-compliant devices within a range of 10 metres. Since the devices communicate using radio waves, they do not need to be in line of sight to each other.

- ☒ • If there are obstacles between the devices, the operating distance may be reduced.
- It is recommended that you don't use the Bluetooth feature while using multimedia features, such as voice recorder, camera, and MP3 player, or vice versa, for better performance.
- Some devices may not be compatible with your phone.

Setting up the Bluetooth feature

The **Bluetooth** menu provides the following options:

- **Activation:** activate or deactivate the Bluetooth feature.

- **My devices:** search for connectable Bluetooth devices. See the next section.
- **My phone's visibility:** allow other Bluetooth devices to search for your phone.
- **My phone's name:** assign a Bluetooth device name to your phone, which is then displayed on other devices.
- **Secure mode:** determine if the phone asks for your confirmation when other devices access your data.
- **Bluetooth services:** display available Bluetooth services.

Searching for and pairing with a Bluetooth device

1. From the Bluetooth setting options, select **My devices**.
2. Select **Search new device**.

After searching, a list of devices to which you can connect displays. The following icons indicate the kind of device:

-  A/V headset
-  Mobile phone

-  Computer
-  PDA
-  Printer
-  Unknown device
-  Headset or Hands-free car kit

The colour of the icon indicates the status of the the device:

- Grey for unpaired devices
- Blue for paired devices
- Red for devices that are currently connected to your phone

3. Select a device.
4. Enter a Bluetooth PIN code and press **<OK>**. This code is used just once and you don't need to memorise it.

When the owner of the other device enters the same code, pairing is complete.

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

Using device options

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

- **Connect/Disconnect:** connect to the currently selected device, or end the connection.
- **Browse files:** search for data from the device and import data directly to your phone.
- **Service list:** display available Bluetooth services for the selected device.
- **Rename:** rename the paired device.
- **Authorize device/Unauthorize device:** determine whether or not the phone asks you to permit connection when the device tries to connect to your phone.
- **Delete:** remove the selected device or all displayed devices from the device list.

Sending data via Bluetooth

1. Activate the Bluetooth feature.
2. Select the application in which the item you want to send is stored.
3. Scroll to the item you want and press **<Options>**.
4. Select **Send via → Bluetooth**.
The phone searches for devices within range and displays a list of available devices.

5. Select a device.
6. If necessary, enter the Bluetooth PIN needed for pairing and press **<OK>**.

Receiving data via Bluetooth

To receive data via Bluetooth, your phone's Bluetooth feature must be active.

1. If an unauthorised Bluetooth device sends data to your phone, press **<Yes>** to allow the device to access your phone.
2. Press **<Yes>** to receive data.

Security (Menu 9.8)

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 network operator.

PIN check (Menu 9.8.1)

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 9.8.2)

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

Phone lock (Menu 9.8.3)

This feature locks 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 9.8.4)

Use this menu to change your phone password.

Privacy (Menu 9.8.5)

Use this menu to lock your media contents, including messages, images, videos, music files, and sounds.

1. Press [**OK/✓**] to check the items to lock.
2. Press **<Save>** to lock the marked items.
3. Enter the phone password and press **<OK>**.

To access a locked item, you need to enter the phone password.

SIM lock (Menu 9.8.6)

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

FDN mode (Menu 9.8.7)

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 specified in the FDN list. ► p. 32

Change PIN2 (Menu 9.8.8)

If supported by your SIM card, the Change PIN2 feature changes your current PIN2.

Memory status (Menu 9.9)

Use this menu to check the amount of memory being used for storing data in **Messages**, **File manager**, **Calendar**, **Phonebook**, and **JAVA world**. You can also check **Shared memory** for MMS, Email, and File manager.

Reset settings (Menu 9.10)

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

1. Press [OK/✓] to check the setting categories to be reset.
2. Press <**Reset**> to reset the marked items.
3. Press <**Yes**> to confirm the reset.
4. Enter the phone password and press <**OK**>.

☒ The password is preset to **00000000**. To change the password, use the **Change password** menu. ► p. 74

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 PUK"

Solve problems

- The PIN code has been entered incorrectly three times in succession, and the phone 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 are accessing the correct 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 "Battery low" 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 Contact list feature to ensure the number has been stored correctly.
- Re-store the number, if necessary.

The battery doesn't 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.

Health and safety information

Exposure to radio frequency (RF) signals

Your wireless phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission (FCC) of the U.S. Government. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on the safety standards that were developed by independent scientific organizations through periodic and through evaluation of scientific studies.

The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health.

The exposure standard for wireless phones employs a unit of measurement known as Specific Absorption Rate (SAR). The SAR limit recommended by the FCC is 1.6W/kg.*

SAR tests are conducted using standard operating positions specified 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 of the phone.

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 limit established by the government adopted requirement for safe exposure. The tests are performed in positions and locations

* In the U.S. and Canada, the SAR limit for mobile phones used by the public is 1.6 watts/kg (W/kg) averaged over one gram of tissue. The standard incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in measurements.

(e.g., at the ear and worn on the body) as required by the FCC for each model. While there may be differences between the SAR levels of various phones and at various positions, they all meet the government requirement.

The FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this model phone is on file with the FCC and can be found under the Display Grant section of <http://www.fcc.gov/oet/fccid> after searching on FCC ID printed in the label on the phone.

For body operation

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

The minimum distance for this model phone is written in the FCC certification information from the body.

None compliance with the above conditions may violate FCC RF exposure guidelines.

For more Information concerning exposure to radio frequency signals, see the following websites:

Federal Communications Commission (FCC)

<http://www.fcc.gov>

Cellular Telecommunications Industry Association (CTIA):

<http://www.wow-com.com>

U.S.Food and Drug Administration (FDA)

<http://www.fda.gov/cdrh/consumer>

World Health Organization (WHO)

<http://www.who.int/peh-emf/en>

Precautions when using batteries

- 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, the type of battery and the charger used. The battery can be charged and discharged hundreds of times, but it will gradually wear out. When the operation time (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. Always recycle. Do not dispose of batteries in a fire.

Road safety

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

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

- 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.
- When available, use a hands-free device. If possible, add an extra layer of convenience and safety to your wireless phone with one of the many hands-free accessories available today.
- 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.

- 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.
- Do not take notes or look up phone numbers while driving. Jotting down a To Do list or flipping through your Address Book takes your attention away from your primary responsibility, driving safely.
- 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.
- Do not engage in stressful or emotional conversations that may be distracting. Make the people with whom you are talking aware that you are driving and suspend conversations that have the potential to divert your attention from the road.
- Use your wireless phone to call for help. Dial the emergency number in the case of fire, traffic accident or medical emergencies. Remember, it is a free call on your wireless phone!
- Use your wireless phone to help others in emergencies. If you see a car accident, crime in progress or other serious emergency where lives are in danger, call the emergency number, as you would want others to do for you.
- 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 any other special non-emergency wireless number.

Operating environment

Remember to follow 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.

When connecting the phone or any accessory to another device, read its user's guide for detailed

safety instructions. Do not connect incompatible products.

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

Electronic devices

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

Pacemakers

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

research and recommendations of Wireless Technology Research.

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 off your phone immediately.

Hearing aids

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

Other medical devices

If you use any other personal medical devices, consult the manufacturer of your device to determine if it is adequately shielded from external RF energy. Your physician may be able to assist you in obtaining this

information. Switch off your phone in health care facilities when 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. You should also consult the manufacturer of any equipment that has been added to your vehicle.

Posted facilities

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

Potentially explosive environments

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

and instructions. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death.

Users are advised to switch off the phone while at a 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 the areas 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:

If the phone is not on, switch it on.

1. Key in the emergency number for your present location (for example, 911 or other official emergency number). Emergency numbers vary by location.
2. 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 end the call until given permission to do so.

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.

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 off your phone before boarding an aircraft. The use of wireless phones 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.

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's.
- 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.
- 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.

Acknowledging special precautions and the FCC and industry canada notice

Cautions

Modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC Compliance information

This device complies with Part 15 of 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.

Information to user

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.

Appendix A: CERTIFICATION INFORMATION (SAR)

THIS MODEL PHONE MEETS THE GOVERNMENT'S REQUIREMENTS FOR EXPOSURE TO RADIO WAVES.

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

The exposure limit set by the FCC for wireless mobile 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

88 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 limit established by the FCC. Tests 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 of this model phone as reported to the FCC are Head: x.xxxW/kg, Body-worn:x.xxxW/kg. For body-worn operations, this model phone has been tested and meets the FCC RF exposure guidelines when used with a Samsung accessory designated for this product or when used with an accessory that contains no metal and that positions the handset a minimum of 1.5cm 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, A3LSGHT709. 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.

In the United States and Canada, the SAR limit for mobile phones used by the public is 1.6 watts/kilogram (W/kg) averaged over one gram of tissue. The standard incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in measurements.

Appendix B: Guide to safe and responsible wireless phone use

Cellular Telecommunications & Internet Association
 "Safety is the most important call you will ever make."

A guide to safe and responsible wireless phone use

TENS OF MILLIONS OF PEOPLE IN THE U.S. TODAY TAKE ADVANTAGE OF THE UNIQUE COMBINATION OF CONVENIENCE, SAFETY AND VALUE DELIVERED BY THE WIRELESS TELEPHONE. QUITE SIMPLY, THE WIRELESS PHONE GIVES PEOPLE THE POWERFUL ABILITY TO COMMUNICATE BY VOICE-ALMOST ANYWHERE, ANYTIME-WITH THE BOSS, WITH A CLIENT, WITH THE KIDS, WITH EMERGENCY PERSONNEL OR EVEN WITH THE POLICE. EACH YEAR, AMERICANS MAKE BILLIONS OF CALLS FROM THEIR WIRELESS PHONES, AND THE NUMBERS ARE RAPIDLY GROWING.

But an important responsibility accompanies those benefits, one that every wireless phone user must uphold. When driving a car, driving is your first responsibility. A wireless phone can be an invaluable tool, but good

judgment must be exercised at all times while driving a motor vehicle whether on the phone or not.

The basic lessons are ones we all learned as teenagers. Driving requires alertness, caution and courtesy. It requires a heavy dose of basic common sense-keep your head up, keep your eyes on the road, check your mirrors frequently and watch out for other drivers. It requires obeying all traffic signs and signals and staying within the speed limit. It means using seat belts and requiring other passengers to do the same.

But with wireless phone use, driving safely means a little more. This brochure is a call to wireless phone users everywhere to make safety their first priority when behind the wheel of a car. Wireless telecommunications is keeping us in touch, simplifying our lives, protecting us in emergencies and providing opportunities to help others in need. When it comes to the use of wireless phones, safety is your most important call.

Wireless phone "Safety Tips"

Below are safety tips to follow while driving and using a wireless phone which should be easy to remember:

1. Get to know your wireless phone and its features such as speed dial and redial. Carefully read your instruction manual and learn to take advantage of valuable features most phones offer, including automatic redial and memory. Also, work to memorize the phone keypad so you can use the speed dial function without taking your attention off the road.
2. When available, use a hands free device. A number of hands free wireless phone accessories are readily available today. Whether you choose an installed mounted device for your wireless phone or a speaker phone accessory, take advantage of these devices if available to you.
3. Position your wireless phone within easy reach. Make sure you place your wireless phone within easy reach and where you can grab it without removing your eyes from the road. If you get an incoming call at an inconvenient time, if possible, let your voice mail answer it for you.
4. Suspend conversations during hazardous driving conditions or situations. 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 and ice can be

hazardous, but so is heavy traffic. As a driver, your first responsibility is to pay attention to the road.

5. Do not take notes or look up phone numbers while driving. If you are reading an address book or business card, or writing a "to do" list while driving a car, you are not watching where you are going. It's common sense. Don't get caught in a dangerous situation because you are reading or writing and not paying attention to the road or nearby vehicles.
6. Dial sensibly and assess the traffic; if possible, place calls when you are not moving or before pulling into traffic. Try to plan your calls before you begin your trip or attempt to coincide your calls with times you may be stopped at a stop sign, red light or otherwise stationary. But if you need to dial while driving, follow this simple tip-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. Stressful or emotional conversations and driving do not mix-they are distracting and even dangerous when you are behind the wheel of a car. Make people you are talking with aware you are driving and if necessary, suspend conversations which have the potential to divert your attention from the road.
8. Use your wireless phone to call for help. Your wireless phone is one of the greatest tools you can own to protect yourself and your family in dangerous situations-with your phone at your side, help is only three numbers away. Dial 9-1-1 or other local emergency number in the case of fire, traffic accident, road hazard or medical emergency. Remember, it is a free call on your wireless phone!
9. Use your wireless phone to help others in emergencies. Your wireless phone provides you a perfect opportunity to be a "Good Samaritan" in your community. 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 wireless non emergency assistance number when necessary. Certain situations you encounter while driving may require attention, but are not urgent enough to merit a call for emergency services. But you still can use your wireless phone to lend a hand. 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 wireless number.

Careless, distracted individuals and people driving irresponsibly represent a hazard to everyone on the road. Since 1984, the Cellular Telecommunications Industry Association and the wireless industry have conducted educational outreach to inform wireless phone users of their responsibilities as safe drivers and good citizens. As we approach a new century, more and more of us will take advantage of the benefits of wireless telephones. And, as we take to the roads, we all have a responsibility to drive safely.

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

Cellular Telecommunications & Internet Association For more information, please call 1-888-901-SAFE.

For updates: <http://www.wow-com.com/consumer/issues/driving/articles.cfm?ID=85>

Appendix C: consumer update on wireless phones

U.S. Food and Drug Administration

1. 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.

2. 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.

3. 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.

- 4.** 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 the 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.

- 5.** 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.

6. 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.

7. 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.

8. 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.

9. 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 hearing aids for interference from handheld 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.

10. 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 the 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 phone 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.

11. 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 10 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.

12. Which other federal agencies have responsibilities related to potential RF health effects?

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-slc.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>

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Batteries 1 Year

Leather Case/Pouch 90 Days

Other Phone Accessories 1 Year

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