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

SAMSUNG ELECTRONICS

SAMSUNG

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SAMSUNG

DRAFT

SGH-A401
User's Guide

Important safety **precautions**

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

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

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

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

Qualified service

Only qualified service personnel may repair your phone.

For more detailed safety information, see "Health and safety information" on page 112.

About this Guide

This User's Guide provides you with condensed information about how to use your phone. To quickly learn the basics for your phone, please refer to "Get started" and "Step outside the phone."

In this guide, the following instruction icons appear:

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

- **3G**

  Your phone is capable of operating in a 3G environment, allowing much greater data transfer speed, video streaming, and video conferencing.

Special features of your phone

- **Camera and camcorder**

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

- **Media player**

  Play media files on your phone. You can enjoy high quality videos and music.

- **Bluetooth**

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

- **Web browser**

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

- **Messenger**

  Have a conversation with other people by sending and receiving instant messages.

- **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 image, video, and audio attachments.

- **Java**

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

- **Phonebook**

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

- **Name card**

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

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1. Available only if supported by your USIM/SIM card.

Unpack

Make sure you have each item

- Phone
- Travel Adapter
- Battery
- PC Data Cable
- PC Link CD
- 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

Keys, features, and locations

Get started

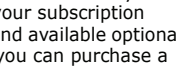
First steps to operating your phone

USIM/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. For 3G services, you can purchase a USIM (Universal Subscriber Identity Module) card.

Install and charge the phone

1 Remove the battery cover.



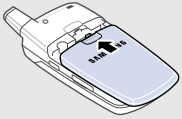
☑ If the phone is already on, first turn it off by pressing and holding [ ].

2 Insert the USIM/SIM card.

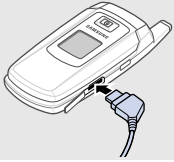
☑ Make sure that the gold-coloured contacts on the card are face down.

3 Install the battery.

4 Reattach the battery cover.



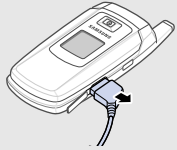
5 Plug the adapter into a standard AC wall outlet.



6 Plug the adapter into a standard AC wall outlet.

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

8 Remove the adapter from the phone.



Low battery indicator

When the battery is low:

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

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

Power on or off

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

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

Keys and display

Keys

	Perform the function indicated on the bottom line of the display.
	Access the contact list.
	Open the application switch window to access other applications without exiting the current application.
	In Idle mode, access your favourite menus directly. ▶ p. 97 In Menu mode, scroll through menu options.

	In Idle mode, launch the web browser. In Menu mode, select a highlighted menu option or confirm input.
	Make or answer a call. In Idle mode, retrieve numbers recently dialled, missed, or received.
	Delete characters from the display. In Menu mode, return to the previous menu level.
	Press and hold to switch the phone on or off. End a call. In Menu mode, cancel input and return the phone to Idle mode.
	Enter numbers, letters, and some special characters. In Idle mode, press and hold [**1**] to access your voicemail server. Press and hold [**0**] to enter an international call prefix.
	Enter special characters. Press and hold [ ] to activate or deactivate the Silent profile. Press and hold [∗] to enter a pause between numbers.
	Adjust the phone volume. In Idle mode, with the phone open, adjust the key tone volume. With the phone closed, press and hold to turn on the backlight.

Press and hold to turn on the camera.

In Camera mode, take a photo or record a video.

Display

Layout

Icons
display various icons.

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

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

Icons

- Received signal strength
- Accessing services in a 2.5G (GPRS) network; when transferring data, this icon animates
- Accessing services in an EDGE network; when transferring data, this icon animates
- Accessing services in a 3G (UMTS) network; when transferring data, this icon animates
- Roaming network
- Call diverting feature active ▶ p. 99
- Call in progress
- Out of your service area; you cannot make or receive calls

Bluetooth active; When transferring data, this icon blinks red and blue ▶ p. 101

Bluetooth hands-free car kit or headset connected ▶ p. 101

Connected with PC via a USB port

Browsing Internet on PC using the phone as modem

Connected to secured web page

Alarm set ▶ p. 48

New message:

- : SMS
- : MMS
- : E-mail
- : Voicemail
- : Push
- : Configuration message

Inbox full:

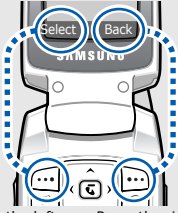
- : SMS
- : MMS
- : E-mail
- : Voicemail
- : Push
- : Configuration message

Profile setting ▶ p. 95

- None: Normal
- : Meeting
- : Driving
- : Silent
- : Outdoor
- : Offline

Battery power level

Access menu functions

Use the soft keys	The roles of the soft keys vary depending on the function you are using. The bottom line of the display indicates their current role.  Press the left soft key to select the highlighted option. Press the right soft key to return to the previous menu level.
Select an option	1. Press a desired soft key. 2. Press the Navigation keys to move to the next or previous option. 3. Press <**Select**> or [ ] to confirm the function displayed or option highlighted. 4. To exit, choose either of the following methods: • Press <**Back**> or [**C**] to move up one level. • Press [ ] to return to Idle mode.
Use shortcuts	Press the number key corresponding to the option you want.

Customise your phone

Display language

1. In Idle mode, press <**Menu**> and select **Settings** → **Phone** → **Language** → **Screen text**.
2. Select a language.
3. Press <**Save**>.

Call ringer melody

You can change the call ringtone by changing the properties of the currently active sound profile.

To change the profile properties:

1. In Idle mode, press <**Menu**> and select **Settings** → **Profiles**.
2. Scroll to the sound profile you are using.
3. Press <**Options**> and select **Edit**.
4. Select **Voice call ringtone** and select a ringtone for voice calls.
5. Press <**Options**> and select **Save**.

To change the sound profile:

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

Idle mode wallpaper

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

For the main display:

1. In Idle mode, press <**Menu**> and select **Settings** → **Display settings** → **Main display** → **Wallpaper**.
2. Scroll to an image folder.
3. Select an image.
4. Press <**Set**>.

For the external display:

1. In Idle mode, press <**Menu**> and select **Settings** → **Display settings** → **Front display** → **Wallpaper**.
2. Select an image type.
3. For **Clock**, scroll to a clock type and press <**Save**>.
   For **Screen slogan**, enter a greeting and press <**Save**>.
   For **My image**, press <**Change**> and select an image.
4. Press <**Change**>.

Menu shortcuts

You can set the Navigation keys to function as shortcuts to access your favourite menus.

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

Silent profile

You can activate the Silent profile to avoid disturbing other people.

In Idle mode, press and hold [#].

Phone lock

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 phone password**.
2. Enter the default password, **00000000**, and press <**Confirm**>.
3. Enter a new 4- to 8-digit password and press <**Confirm**>.

4. Enter the new password again and press <**Confirm**>.
5. Select **Phone lock**.
6. Select **On**.
7. Enter the password and press <**Confirm**>.

Make/Answer calls

Make a call	1. Enter an area code and phone number. 2. Press [ ]. 3. To end the call, press [ ].
Answer a call	1. When the phone rings, press [ ]. 2. To end the call, press [ ].
Adjust the volume during a call	Press [▲/▼].

Step outside the phone

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

Use the 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 make any desired adjustments.
4. Press [ ] or [ ] to take a photo. The photo is saved automatically.
5. Press <**Back**> to take another photo.

View a photo

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

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 [ ] or [ ] to start recording.
4. Press [ ] or [ ] to stop recording. The video is saved automatically.
5. Press <**Back**> to record another video.

Play a video

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

Play media files

Copy media files to the phone

Use these methods:

- Download from the wireless web ▶ p. 57
- Download from a computer using the optional Samsung PC Studio ▶ Samsung PC Studio User's Guide
- Receive via Bluetooth ▶ p. 104

Create a play list

1. In Idle mode, press <**Menu**> and select **Applications** → **Media player**.
2. Press [ ].
3. Press <**Options**> and select **Add** → **Folder** or **Files**.
4. Scroll to the folder you want, or press [ ] to select the files you want.
5. Press <**Select**> or <**Add**>.
6. Press <**Back**> to return to the media player screen.

Play media files

1. From the media player screen, press [ ].
2. Select the file you want.
3. During playback, use the following keys:
   - : pauses or resumes playback.
   - Left: returns 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.
   - ▲/▼: adjusts the volume.
4. Press [Down] to stop playback.

Browse the web

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

Launch the web browser

In Idle mode, press <**BigPond**>.

Navigate the web

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

Use Phonebook

Add a contact

To the phone's memory:

1. In Idle mode, enter a phone number.
2. Press <**Options**> and select **Save to Phonebook** → **Phone** → **New** → a number type.
3. Specify contact information: First name, Last name, Phone number, Work Email, Home Email, Group, Homepage, Birthday, and More information (Job title, Department, Company, Nickname, and Notes).
4. Press <**Options**> and select **Save** to save the contact.

To the USIM/SIM card:

1. In Idle mode, enter a phone number.
2. Press <**Options**> and select **Save to Phonebook** → **SIM** → **New**.
3. Specify contact information: Name, Phone number, Group (for USIM), and Location number.
4. Press [ ] to save the contact.

Find a contact

1. In Idle mode, press [☎].
2. Enter the first few letters of the name you want.
3. Select a contact.
4. Scroll to a number and press [ ] to dial, or press [ ] to edit contact information.

Create and send a name card

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

Send messages

Send a text message (SMS)

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

Send a multimedia message (MMS)

1. In Idle mode, press <**Menu**> and select **Messages** → **Create new** → **MMS**.
2. Enter the message subject.
3. Select **Text**.
4. Enter the message text and press [ ].
5. Select **Picture or Video** or **Audio**.
6. Add an image, a video clip, or a sound clip.
7. Press [ ].
8. Enter destination numbers or e-mail addresses.
9. Press [ ] to send the message.

Send an e-mail

1. In Idle mode, press <**Menu**> and select **Messages** → **Create new** → **Email**.
2. Enter the e-mail subject.
3. Move to the **Message** field.
4. Enter the e-mail text.
5. Move to the **Attach files** line.
6. Press <**Options**> and select **Add files**, **Add name card**, or **Add v-calendar**.
7. Select images, videos, sounds, name cards, or calendar data.

Send an e-mail (continued)

8. Press <**Options**> and select **Attach**.
9. Press [ ].
10. Enter e-mail addresses.
11. Press [ ] to send the e-mail.

View messages

View a text message

When a notification appears:

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

From the Inbox:

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

View a multimedia message

When a notification appears:

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

From the Inbox:

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

View an e-mail

1. In Idle mode, press <**Menu**> and select **Messages** → **Email inbox**.
2. Press <**Options**> and select **Download** to download new e-mails or headers.
3. Select an e-mail or a header.
4. If you selected a header, press <**Options**> and select **Retrieve** to view the body of the e-mail.

Use Bluetooth

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

Turn on Bluetooth

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

Search for and pair with a Bluetooth device

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

Send data

1. Access an application, **Phonebook**, **My files**, **Calendar**, **Schedule**, or **Task**.
2. Select the item you want to send.
3. Press <**Options**> and select **Send business card**/**Send via**/**Send schedule**/**Send task** → **Bluetooth** or **Via bluetooth**.
4. Select a device.
5. If necessary, enter the Bluetooth PIN and press <**OK**>.

Receive data

1. When a device attempts to access your phone, press <**Yes**> to permit the connection.
2. If necessary, press <**Yes**> to confirm that you are willing to receive.

Switch applications

You can switch to other applications from a menu, without closing the menu screen you were using.

Switch to an application

1. While using a menu, press [ ].
2. Select an application.

Available applications

- **Call**: opens the dialling screen.
- **Messages**: accesses the **Messages** menu.
- **Browser**: launches the web browser.

Close all running applications

1. Press [ ].
2. Scroll to **End all?**.
3. Press <**Select**>.

Enter text

ABC, T9, Number, and Symbol modes

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

Changing the text input mode

- Press and hold [*] to switch between T9 (T9Ab) and ABC (ABAb) modes.
- Press [*] to change case or to switch to Number mode (123).
- Press and hold [#] to switch to Symbol mode (SYM).

Using T9 mode

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

Entering a word in T9 mode

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

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

   T9 predicts the word that you are typing, and it may change with each key that you press.
2. Enter the whole word before editing or deleting characters.

3. When the word displays correctly, go to step 4. Otherwise, press [**0**] to display alternative word choices for the keys that you have pressed.

   For example, *Of* and *Me* use [**6**] and [**3**].

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

Other T9 mode operations

- Press [**1**] to enter periods or apostrophes automatically.
- Press [#] to insert a space.
- Press the Navigation keys to move the cursor.
- Press [**C**] to delete characters one by one. Press and hold [**C**] to clear the entire display.

Adding a new word to the T9 dictionary

This feature may not be available for some languages.

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

Using ABC mode

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

Key	Characters in order displayed	
	Upper case	Lower case
1	. , ? / ! ` @ _ - : 1	
2	A B C Å Ä Æ Γ Ç 2	a b c å ä à æ Γ ç 2
3	D E F É Δ Φ 3	d e f è é Φ 3
4	G H I Θ Ψ 4	g h i ì Φ Ψ 4
5	J K L Λ 5	j k l Λ 5
6	M N O Ö Ñ Ø 6	m n o ö ñ ø ò 6
7	P Q R S Π Σ Ξ 7	p q r s β Σ Ξ 7
8	T U V Ü 8	t u v ù ü 8
9	W X Y Z Ω 9	w x y z Ω 9
0	+ = < > € £ $ % & ¥ ¤ 0	

(Creating an SMS message with GSM alphabet encoding)

Other ABC mode operations

- To enter the same letter twice or to enter a different letter on the same key, wait for the cursor to move to the right automatically or press [Right]. Then, enter the next letter.
- Press [#] to insert a space.
- Press the Navigation keys to move the cursor.
- Press [**C**] to delete characters one by one. Press and hold [**C**] to clear the entire display.

Using Number mode

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

Using Symbol mode

Symbol mode enables you to insert symbols.

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

Call functions

Advanced calling features

Making a call

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

   - Press [**C**] to clear the last digit or press and hold [**C**] to clear the whole display.
   - Press and hold [*] to enter a pause between numbers.

2. Press [ ].
3. When you want to end the call, press [ ].

Making an international call

1. In Idle mode, press and hold [**0**]. The **+** character appears.
2. Enter the country code, area code, and phone number, then press [ ].

Redialling recent numbers

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

Making a call from Phonebook

Once you have stored a number in Phonebook, you can dial the number by selecting it from Phonebook. ▶ p. 40

You can also use the speed dial feature to assign your most frequently dialled numbers to specific number keys. ▶ p. 43

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

1. In Idle mode, enter a location number and press [#].
2. Scroll through other numbers, if necessary.
3. Press <**Call**> or [ ] to make a call.

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 **Any key** is active, you can press any key, except for <**Reject**> and [ ]. ▶ p. 98
- When **Active folder** is active, you can simply open the phone. ▶ p. 99
- Press <**Reject**> or [ ] to reject a call.
- With the phone closed, press and hold [▲/▼] to reject a call.

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

To	Press
redial the last call	the button twice.
answer a call	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**> to place a call on hold, or press <**Unhold**> to retrieve the call.

Making a second call

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

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 **Drop** → **Drop held call** to end the call on hold.
5. To end the current call, press [ ].

Answering a second call

You can answer an incoming call while already on the phone, if your network supports this function and you have activated the call waiting feature. ▶ p. 100

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 **Drop** → **Drop held call** to end the call on hold.
4. To end the current call, press [ ].

Using the speakerphone feature

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

Press [ ] and then <**Yes**> to activate the speakerphone feature. Press [ ] again to switch back to the earpiece.

Using In-call options

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

- **Loudspeaker**/**Loudspeaker off**: turn on the speakerphone feature or switch back to Normal mode.
- **Join**: set up a multi-party call by adding a caller on hold to a currently active call. You can include up to 5 people on a multi-party call.

- **Split**: have a private conversation with one multi-party call participant. The other participants can converse with each other. After the private conversation, select **Join** to return both private participants to the multi-party call.
- **Drop**: disconnect the call currently on hold or active call.
- **Drop call**: disconnect one multi-party call participant.
- **Transfer**: transfer the currently active call to a caller on hold. The two callers can talk to each other, but you are disconnected from the call.
- **Unmute**/**Mute**: switch off the phone's microphone so that the other person on the phone cannot hear you, or switch it back on.
- **Mute key tone**/**Unmute key tone**: turn the key tones off or on.

☑ To communicate with answering machines or computerised telephone systems, **Unmute key tone** must be selected.

- **New call**: make a new call.
- **Contacts**: locate or store contacts in Contacts.
- **Send text message**: create and send a new SMS message.
- **Send DTMF**: send 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.
- **Memo**: create a memo.

- **PocketNews**: access PocketNews if supported by your USIM/SIM card.
- **End call**/**End calls**: disconnect the call currently on hold, active call, or all calls.
- **Save to Contacts**: save the entered number to Phonebook.
- **Save to memo**: save the entered number as a memo.

Menu functions

All menu options listed

Call log *(Menu 1)*

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

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

Recent contacts *(Menu 1.1)*

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

Accessing a call log

1. Press [Left] or [Right] to move to another call type.

2. Press [Up] or [Down] to scroll through the call list.
3. Press [ ] to view the details of a call, or [ ] to dial a number.

Using call log options

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

- **Call back**: make a call to the number.
- **Save to Phonebook**: save the number to Phonebook.
- **Send message**: send a message to the selected number via SMS or MMS.
- **Delete**: delete the selected call log.

Missed calls *(Menu 1.2)*

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

Dialled calls *(Menu 1.3)*

This menu displays the most recent calls you have dialled.

Received calls *(Menu 1.4)*

This menu displays the most recent calls you have received.

Delete all *(Menu 1.5)*

Use this menu to delete all logs in each call type.

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

4. Enter the phone password and press <**Confirm**>.

> ☑ If the phone is locked, it will require the phone password. The password is preset to **00000000**. You can change this password. ▶ p. 109

Call time *(Menu 1.6)*

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 calls dialled.
- **Total received**: check the total length of calls received.
- **Total time**: check the total length of calls you have dialled and received.
- **Reset timers**: reset all counters.

> ☑ If the phone is locked, it will require the phone password. The password is preset to **00000000**. You can change this password. ▶ p. 109

Data volume *(Menu 1.7)*

Use this menu to view the total amount of sent or received data.

- **Recent volume**: check the recent amount of data you have sent.
- **Total volume**: check the total amount of data you have sent or received.
- **Reset volume**: reset all counters.

> ☑ If the phone is locked, it will require the phone password. The password is preset to **00000000**. You can change this password. ▶ p. 109

Data call time *(Menu 1.8)*

Use this menu to view the time log for data calls.

- **Recent time**: check the length of the recent data calls.
- **Total time**: check the total length of data calls.
- **Reset timers**: reset all counters.

☑ If the phone is locked, it will require the phone password. The password is preset to **00000000**. You can change this password. ▶ p. 109

Call cost *(Menu 1.9)*

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

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

Phonebook *(Menu 2)*

You can store phone numbers on your USIM/SIM card and in your phone's memory. The USIM/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**.

Search contact *(Menu 2.1)*

Use this menu to search for contact information in Phonebook.

> ☑ You can quickly access this menu by pressing [☎] in Idle mode.

Finding a contact

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

Using contact options

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

- **Edit**: edit contact information.
- **Send message**: send a message via SMS or MMS.
- **Special options**: set the following options:

  Picture: assign a caller ID image to alert you to a call from the person.

  Ringtone: assign a ringtone to alert you to a call from the person.

  Msg. alert tone: select a ringtone to alert you to an incoming message from the person.
- **Add to speed dial**: set the selected number as a speed dial entry.
- **Copy to SIM**/**Copy to phone**: copy the contact from the phone's memory to the USIM/SIM card, or vice versa.
- **Send business card**: send the contact via SMS or Bluetooth.
- **Use number**: paste the selected number to the normal dialling screen.
- **Delete**: delete the contact.

New contact *(Menu 2.2)*

Use this menu to add a new contact to Phonebook.

Storing a contact to the phone's memory

1. Select **Phone**.
2. Change the settings or enter information about the contact:
   - **First name**/**Last name**: assign a name.
   - **Phone number**: add a phone number.
   - **Work Email**: assign a business e-mail address.
   - **Home Email**: assign a personal e-mail address.
   - **Group**: assign a caller group.
   - **Homepage**: enter a homepage address.
   - **Birthday**: enter the person's birthday.
   - **More information**: enter the job title, department, company, nickname, and additional note of the person.
3. Press <**Options**> and access the following options to add additional information:
   - **Special options**: assign a caller ID image, call ringer, or message ringer for the contact.
   - **Add item**: add a phone number in any type to the contact.
   - **Delete item**: remove the selected number type from the contact.
   - **Change type**: change the number type from the contact.
4. Press <**Options**> and select **Save** to save the contact.

Storing a contact to the USIM/SIM card

1. Select **SIM**.
2. Enter information about the contact:
   - **Name**: assign a name.
   - **Phone number**: add a phone number.
   - **Group**: (For USIM) assign a caller group.
   - **Location number**: enter a location number.
3. If you are using a USIM card, press <**Options**> to add additional information:
   - **Add item**: add a information type to the contact.
   - **Delete item**: remove the selected type from the contact.
4. Press [ ] to save the contact.

Groups *(Menu 2.3)*

Use this menu to create and manage caller groups.

Creating a caller group

1. Press <**Options**> and select **Add group**.
2. Enter a group name and press <**Save**>.

Adding members to a caller group

1. Select a group.
2. Press [ ] to select the contacts to be added.
3. Press <**Save**>.

Managing caller groups

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

- **Add member**: add a member to the selected group.
- **View members**: display the members of the selected group.
- **Add group**: add a new group.
- **Rename group**: change the group name.

- **Delete group**: delete the selected group or all groups. Group members, however, will not be deleted from Contacts.

Speed dial list *(Menu 2.4)*

Use this menu to assign speed dial numbers (2 to 9) to 8 of your most frequently dialled 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.
3. Select a number.

Managing speed dial entries

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

- **Add**: assign a number to an unassigned key.
- **Details**: check 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 numbers

In Idle mode, press and hold the appropriate key.

My business card *(Menu 2.5)*

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. 41

Using name card options

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

- **Edit**: edit the name card.
- **Send business card**: send the name card via SMS or Bluetooth.
- **Delete**: delete the name card.

Copy all *(Menu 2.6)*

Use this menu to copy all of the contacts stored on the USIM/SIM card to the phone's memory, or vice versa.

Own number *(Menu 2.7)*

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

FDN list *(Menu 2.8)*

Use this menu to create a list of contacts to be used in FDN (Fixed Dialling Number) mode, in which the phone allows outgoing calls only to the specified phone numbers. This menu is available if your SIM/USIM card supports the FDN feature.

> ☑ You can activate FDN mode in the **FDN mode** menu. ▶ p. 109

Adding a contact

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

Using contact options

From the FDN list, you can access the same contact options as in Phonebook by pressing <**Options**>. ▶ p. 40

Service number *(Menu 2.9)*

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

Scroll to the number you want and press [ ].

Settings *(Menu 2.10)*

Use this menu to change the default settings for Phonebook entries.

- **Viewing settings**: change the sort order of the contact list.
- **Default storage settings**: select a default memory location for saving contacts. If you select **Optionally**, the phone will ask you to select a memory location each time you save a number.

Memory status *(Menu 2.11)*

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

Applications *(Menu 3)*

Use this menu to play media files and use convenient features, such as a world clock, a voice recorder, calculator, and converter.

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

Media player *(Menu 3.1)*

You can play music and video files.

Downloading or receiving music or video files

You can play the following types of files on your phone:

- Music: MP3, AAC, WAV, 3GA, M4A
- Video: MP4, 3GP, RM, RAM, RV

Use the following methods to save music or video files to your phone's memory:

- Download from the wireless web ▶ p. 57
- Download from a computer using Samsung PC Studio ▶ Samsung PC Studio User's Guide
- Receive via an active Bluetooth connection ▶ p. 104

Downloaded or received files are stored in the **Downloads** folder in **Music** or **Video**.

Creating a play list

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

1. From the media player screen, press [ ].
2. Press <**Options**> and select **Add**.
3. Select **Folder** or **Files**.
4. Scroll to the folder you want or press [ ] to select the files you want.
5. Press <**Select**> or <**Add**>.
6. Press <**Back**> to return to the media player screen.

Playing media files

1. From the media player screen, press [ ].
2. Select a file. The file plays.

During playback, use the following keys:

Key	Function
	Pauses or resumes playback.

Key	Function
Left	Returns to the previous file. Moves backward in a file when held down.
Right	Skips to the next file. Moves forward in a file when held down.
▲/▼	Adjusts the volume.
Down	Stops playback.

Using media player options

From the media player screen, press <**Options**> to access the following options:

- **Play**: play the selected file.
- **Pause**/**Resume**: pause or resume playback.
- **Stop**: stop playback.
- **Send via**: send the file via MMS, e-mail, or Bluetooth.
- **Add to playlist**: add the file to the play list.
- **Open playlist**: access the play list.
- **Activate key**: get a new licence key when the key for the selected DRM file expires.
- **Reactivate key**: get another licence key even when the key for the selected DRM file has not expired.
- **Go to My files**: access all music and video files.
- **Details**: access the file properties.
- **Player settings**: change the default settings for playing media files:

  Play options: select a repeat mode.

  Volume: select a volume level.

  Audio player skin: select a skin image.
- **VOD settings**: select a connection profile to be used for accessing a video streaming server. You can also create or edit a profile. ▶ p. 105
- **Key management**: manage the licence keys you have acquired.

Using play list options

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

- **Play**: begin playback.
- **Add**: add files to the play list.
- **Remove**: remove the selected file or all files from the current play list.
- **Move**: move the selected file to the position you want within the current play list or another play list.
- **Copy**: make a copy of the selected file in the current play list or another play list.
- **New list**: add a new play list.

Alarm *(Menu 3.2)*

Use this menu to set alarms to sound at specific times. The alert type for a normal alarm corresponds to the call alert type settings in the currently selected profile. A wake-up alarm is not be affected by your profile setting.

Setting an alarm

1. Select the type of alarm.
2. Set each alarm option:
   - **Alarm**: activate the alarm.
   - **Time**: enter the time for the alarm to sound.
   - **Repeat**: select a repeat option.
   - **Alert tone**: select an alarm tone.
3. Press <**Options**> and select **Save**.

Stopping an alarm

When the time for an alarm comes and the alarm sounds:

- For a non-wake-up alarm, press any key.
- For a wake-up alarm, press <**OK**> or [ ]. Press any key, except for <**OK**> and [ ], to cause it to sound again after 5 minutes.

Deactivating an alarm

1. Select the alarm you want to deactivate.
2. Select **Off** on the **Alarm** line.
3. Press [ ].

Record audio *(Menu 3.3)*

Use this menu to record voice memos.

Recording a voice memo

1. Press [ ] to start recording.
2. Speak into the microphone.
   Press [ ] to pause or resume the recording.
3. Press <**Stop**>. The voice memo is saved automatically.
4. Press [ ] to review the memo, or press [Up] to record additional memos.

Playing a voice memo

1. From the voice recorder screen, press <**Options**> and select **Go to voice memos**.
2. Select a voice memo from the **Voice memos** folder. The memo plays.

During playback, use the following keys:

Key	Function
	Pauses or resumes playback.
Left	Moves backward in a file.
Right	Moves forward in a file.
▲/▼	Adjusts the volume.
Down	Stops playback.

Using voice recorder options

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

- **Play**: play the selected voice memo in Review mode.
- **Record**: record a new voice memo.
- **Send via**: send the file via MMS, e-mail, or Bluetooth.
- **Activate key**: get a new licence key when the key for the selected DRM file expires.
- **Reactivate key**: get a new licence key even when the key for the selected DRM file has not expired.
- **Set as ringtone**: set the file as your ringtone for calls.
- **Key management**: manage the licence keys you have acquired.
- **Go to Voice memos**: access the voice memo list.
- **Rename**: change the file name.
- **Delete**: delete the file.
- **Bluetooth visibility**: share the file with other Bluetooth devices or hide the file so that other Bluetooth devices cannot access it.
- **Details**: access the file properties.
- **Record settings**: customise the default settings for the voice recorder:

  Default name: change the default prefix of file names.

  Recording time: select a maximum recording time.

Organizer *(Menu 3.4)*

Use this menu to use the calendar feature.

Calendar *(Menu 3.4.1)*

Use this menu to keep track of your schedule.

Selecting a day on the calendar

When you enter the **Calendar** menu, the calendar appears with today's date indicated by a coloured box.

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

Creating an item

You can store scheduled items, anniversaries, tasks, and memos on the calendar. More than one item per day can be stored.

To enter a scheduled item:

1. Select a date on the calendar.
2. Press <**Options**> and select **New** → **Schedule**.
3. Enter information or change the settings:
   - **Title**: enter the title for the scheduled item.
   - **Details**: enter the details of the scheduled item.
   - **Start** and **End**: enter the starting and ending times for the scheduled item.
   - **Start date** and **End date**: enter the starting and ending dates for the scheduled item.
   - **Location**: enter information about the scheduled item.
   - **Alarm**: set an alarm for the scheduled item.
   - **before**: set how long before the scheduled item the alarm is to alert you.
   - **Repeat**: set the scheduled item to recur. You can select a repeat unit.
   - **until**: set the ending date, if the scheduled item will recur.

- **Expiry**: change the expiry setting.

4. Press <**Options**> and select **Save** to save the scheduled item.

To enter an anniversary:

1. Select a date on the calendar.
2. Press <**Options**> and select **New** → **Anniversary**.
3. Enter information or change the settings:
   - **Occasion**: enter information about the anniversary.
   - **Date**: enter the date.
   - **Alarm**: set an alarm for the anniversary.
   - **before**: set how long before the anniversary the alarm is to alert you.
   - **alarm time**: enter the time for the alarm to sound.
   - **Repeat every year**: set the phone to remind you of the anniversary every year.
4. Press <**Options**> and select **Save** to save the anniversary.

To enter a task:

1. Select a date on the calendar.
2. Press <**Options**> and select **New** → **Task**.
3. Enter information or change the settings:
   - **Title**: enter the title for the task.
   - **Task**: enter the task content.
   - **Start date**: enter the starting date.
   - **Due date**: enter the ending date.
   - **Priority**: select a priority level.
4. Press <**Options**> and select **Save** to save the task.

To enter a memo:

1. Select a date on the calendar.
2. Press <**Options**> and select **New** → **Memo**.
3. Enter the memo text and press [Down].
4. Enter the date.
5. Press <**Options**> and select **Save** to save the memo.

Consulting the calendar

Once you have scheduled items, the square brackets appear on the corner of the date cell.

To view an item:

1. Select a date on the calendar to display the items for the day. The following icons indicate the type of item:
   - Scheduled items
   - Anniversaries
   - Tasks
   - Memos
2. Select an item to view its details.

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

- **View**: access the item.
- **New**: add a new item.
- **Completed**/**To do**: change the status of the selected task.
- **Month view**: switch to the monthly view screen.
- **Week view**: switch to the weekly view screen.
- **Change date**/**Change due date**/**Reschedule**: change the date of the item.
- **Delete**: delete the selected item or all items.
- **Send schedule**/**Send task**: send the item via SMS or Bluetooth.
- **Send memo**: send the memo via SMS.

To use calendar options:

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

- **View**: display the items stored for the selected date.
- **New**: add a new item.
- **Week view**: display the weekly view screen.

- **Go to today**: go to today's date.
- **Go to date**: enter a specific date.
- **Starting day**: set whether the calendar starts with Sunday or Monday.
- **Delete**: delete the items for the specific period or all of the items in the calendar.

Week view *(Menu 3.4.2)*

You can view items for the selected week. A coloured box on the timetable indicates the presence of a scheduled item. Select a box for the date you want.

Today's event *(Menu 3.4.3)*

You can view items for the selected date.

Select an item to view its details. The item opens in Edit mode.

Schedule *(Menu 3.4.4)*

This menu displays the scheduled items. If you have set the Repeat and Alarm options, the and icons display.

Select a scheduled item to view its details.

Anniversary *(Menu 3.4.5)*

This menu displays anniversaries you have created. If you have set the Repeat and Alarm options, the and icons display.

Select an anniversary to view its details.

Task *(Menu 3.4.6)*

Use this menu to display tasks you have created. The icons on the right indicate the importance; the lower the number on the icon, the higher the priority. A check mark appears in the status check box if the task has been completed.

Select a task to view its details.

Memo *(Menu 3.4.7)*

This menu displays memos you have created.

Select a memo to view its details.

Missed event alarm *(Menu 3.4.8)*

When you are unable to acknowledge an alarm for an item, the phone stores the missed alarm until you confirm it.

1. Select an item.
2. Press <**Confirm**> to confirm and delete the item.

Memory status *(Menu 3.4.9)*

This menu displays the number of items of each type you have created, and the total number of items you can store.

Calculator *(Menu 3.5)*

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

Performing a calculation

1. Enter the first number.
   Press [#] to insert a decimal point.
2. Press one of the Navigation keys to access the math function you want.
3. Enter the second number.
4. Press [ ] to view the result.
5. If necessary, repeat from step 2 to continue the calculation.

Using calculator options

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

- **Equal**: view the result.

- **Recent calculation**: display the last result you calculated.
- **Save to memory**: save a value into the calculator memory.
- **Recall memory**: retrieve the saved value.
- **Clear memory**: clear the saved value.

Converter *(Menu 3.6)*

Use this menu for common conversions, such as currency and temperature.

Performing a conversion

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

Using converter options

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

- **Clear**: clear the current values.
- **Reverse**: reverse the conversion.
- **Currency rates**: display the currency rate list.

World clock *(Menu 3.7)*

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

Setting the local time zone

1. From the world map, press [Left] or [Right] to scroll to the city you want on the upper line ( ). As the time line moves, the time and date of the given zone display.
2. Press [ ] to save the city as your local time zone.

Viewing world time

1. From the world map, move to the lower line ( ).
2. Press [Left] or [Right] to scroll to the city you want.
3. Press [ ] to save the time zone.

Applying Daylight Savings Time

1. From the world map, press [Left] or [Right] to scroll to the city you want.
2. Press <**Set DST**>.

PocketNews *(Menu 3.8)*

This menu is available if you use a USIM/SIM card that supports SIM Application Toolkit menus and provides additional services, such as news, weather, sports, entertainment, and location services. Available services may vary, depending on your service provider's plans.

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

Browser *(Menu 4)*

The web 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 contents, such as wallpapers, ringtones, and music files.

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

BigPond Home *(Menu 4.1)*

Use this menu to connect your phone to the network and load the homepage of the wireless web service provider. You can also press <**BigPond**> in Idle mode.

Navigating the web browser

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

Using browser options

From any web page, press <**Options**> to access the following browser options:

- **BigPond Home**: return to the homepage.
- **Enter URL**: enter a URL address manually.
- **Reload**: reload the current page with updated information.
- **Add bookmark**: bookmark the current page.
- **Bookmarks**: access the bookmark list.
- **History**: access the list of web pages you have accessed.
- **Send link**: send the URL address of the bookmark via SMS or e-mail.
- **Save**: save the image of the current web page or the current page.
- **Advanced**: change the various settings for the browser:

Search text: search for text in the current web page.

Clear history: clear the list of web pages you have accessed.

Clear cookies: delete cookies. Cookies are pieces of personal information sent to a web server while navigating the web.

Clear cache: clear the cache. A cache is a temporary memory site that stores recently accessed web pages.

Details: access the page properties.

Browser settings: change the settings for the web browser to suit your preference.

Certificates: access certificate information.

Browser profiles: select a connection profile to be used for connecting to the Internet. You can also create or edit a profile. ▶ p. 105

About ...: access version and copyright information about the browser.

Exiting the web browser

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

Bookmarks *(Menu 4.2)*

Use this menu to save URL addresses in order to quickly access web pages, or access the preset bookmarks.

Adding a new bookmark

1. Press <**Options**> and select **New**.
2. Enter a title and press [Down].
3. Enter a URL address and press <**Save**>.

Using bookmark options

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

- **Go**: access the bookmarked web page.

- **Edit**: edit the URL address and title of the bookmark, if you selected an added one.
- **New**: add a new bookmark.
- **Send link**: send the URL address of the bookmark via SMS.
- **Delete**: delete the selected bookmark.

Enter URL *(Menu 4.3)*

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

Browser profiles *(Menu 4.4)*

Use this menu to select a connection profile to be used for connecting to the Internet. You can also create or edit a profile. ▶ p. 105

Clear cache *(Menu 4.5)*

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

My Place *(Menu 5)*

The **My Place** menu enables you to use various Internet services supported by your service provider.

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

BigPond Home *(Menu 5.1)*

Use this menu to access a range of mobile entertainment from the BigPond homepage, only available on Telstra's Next G network. For further details, please refer to your Next G User Guide.

FOXTEL *(Menu 5.2)*

Use this menu to access the online TV service supported by your service provider. You can watch TV and use various Mobile TV services. Using this link, you can access to watch 12 exclusive FOXTEL channels on your phone wherever you are. For further details, please refer to your Next G User Guide.

Search *(Menu 5.3)*

Use this menu to access the Internet on your phone and launch the Telstra search engine. For further details, please refer to your Next G User Guide.

Email *(Menu 5.4)*

Use this menu to access the E-mail service supported by your service provider. With your Telstra's Next G mobile, you can check your BigPond, Hotmail, Yahoo! Mail and other Internet provider e-mail accounts, wherever you are, whenever it suits you. For further details, please refer to your Next G User Guide.

Music *(Menu 5.5)*

Use this menu to access the BigPond Music Player and download music files. For further details, please refer to your Next G User Guide.

Downloads *(Menu 5.6)*

Use this menu to access the website preset by your service provider and have entertainment at your fingertips to download.

Download and watch music videos, movie trailers, ringtones and much more with Download Manager. For further details, please refer to your Next G User Guide.

Photos *(Menu 5.7)*

Use this menu to access the website preset by your service provider and download pictures. You can shoot, store, view, and share photos with your family and friends, wherever you are, from your mobile or PC. For further details, please refer to your Next G User Guide.

Maps *(Menu 5.8)*

Use this menu to access a location service based on GPS positioning technology. With access to Whereis Mobile on your phone, you can quickly find your way to any location around Australia. For further details, please refer to your Next G User Guide.

My Account *(Menu 5.9)*

Use this menu to manage your Telstra Accounts. View and pay your Telstra bills, manage your content subscriptions and more. For further details, please refer to your Next G User Guide.

My files *(Menu 6)*

The **My files** menu allows you to access images, videos, music files, and sounds stored in the phone's memory.

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

Tips for Digital Rights Management

As a result of the Digital Rights Management (DRM) system, some of the media items you download from the Internet or receive by MMS may require a licence key to access them.

You can acquire the key from the website which owns the rights to the content; use the **Activate key** option.

Note the following icons on the list:

- : Forwardable item with a valid key.
- : Forwardable item without a valid key.
- : Unforwardable item with a valid key.
- : Unforwardable item without a valid key.

Your phone supports only count-based or unlimited-access DRM files.

Images *(Menu 6.1)*

Use this menu to access photos you have taken and images you have downloaded, received in messages, or imported from your computer.

Viewing an image

1. Scroll to an image folder.
2. Select an image.

Viewing a slide show

You can view your images as a slide show, a sequential presentation of each image in the current folder.

1. While viewing an image, press <**Options**> and select **Slide show**. The slide show begins.
2. Press <**Back**> to stop the slide show.

Using image options

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

- **Send via**: send the file via MMS or Bluetooth.
- **Set as**: set the image as your wallpaper for the main display or a caller ID image for a Phonebook entry.
- **Move**: move the file to another folder.

- **Copy**: copy the file to another folder.
- **Delete**: delete the file.
- **Rename**: change the file name.
- **Real size**: view the image in its actual size. Press <**Change**> to fit the image to the display.
- **Slide show**: view all images as a slide show.
- **Activate key**: get a new licence key when the key for the selected DRM file expires.
- **Reactivate key**: get another licence key even when the key for the selected DRM file has not expired.
- **Bluetooth visibility**: share the file with other Bluetooth devices, or hide the file so that other Bluetooth devices cannot access it.
- **Lock**/**Unlock**: lock the file to prevent it from being deleted, or unlock the file.
- **Properties**: access the file properties.
- **Key management**: manage the licence keys you have acquired.

Downloading images

1. Scroll to the **Downloads** folder.
2. Select **Shop Graphics**. You are connected to the website preset by your service provider.
3. Search for the file you want and follow the onscreen instructions to download it.

Video *(Menu 6.2)*

Use this menu to access 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. Scroll to a video folder.
2. Select a video clip. The media player opens. ▶ p. 46

Using video options

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

- **Play**: play the video clip.
- **Add to play list**: add the file to the play list.
- **Send via**: send the file via MMS or Bluetooth.
- **Move**: move the file to another folder.
- **Copy**: copy the file to another folder.
- **Delete**: delete the selected file or all files.
- **Activate key**: get a new licence key when the key for the selected DRM file expires.
- **Reactivate key**: get another licence key even when the key for the selected DRM file has not expired.
- **Rename**: change the file name.
- **Create folder**: add a new folder.
- **Bluetooth visibility**: share the file with other Bluetooth devices, or hide the file so that other Bluetooth devices cannot access it.
- **Lock**/**Unlock**: lock the file to prevent it from being deleted, or unlock the file.
- **Properties**: access the file properties.
- **Key management**: manage the licence keys you have acquired.

Downloading video clips

1. Scroll to the **Downloads** folder.
2. Select **Shop Video**. You are connected to the website preset by your service provider.

3. Search for the file you want and follow the onscreen instructions to download it.

Sounds *(menu 6.3)*

Use this menu to access voice memos you have recorded, and sound clips you have downloaded, received in messages, or imported from your computer.

Playing a sound clip

1. Scroll to a sound folder.
2. Select a sound clip. The selected sound plays.
   For a voice memo, see **Record audio**. ▶ p. 49

During playback, use the following keys:

Key	Function
Left	Returns to the previous file.
Right	Skips to the next file.
Up/Down/ ▲/▼	Adjusts the volume.
	Allows you to send the selected file to other people.

Using sound options

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

- **Play**: play the selected file.
- **Send via**: send the file via MMS, or Bluetooth.
- **Set as**: set the file as your ringtone or as a caller ID for a Phonebook entry.
- **Activate key**: get a new licence key when the key for the selected DRM file expires.

- **Reactivate key**: get another licence key even when the key for the selected DRM file has not expired.
- **Move**: move the file to another folder.
- **Copy**: copy the file to another folder.
- **Delete**: delete the selected file or all files.
- **Rename**: change the file name.
- **Create folder**: add a new folder.
- **Bluetooth Visibility**: share the file with other Bluetooth devices, or hide the file so that other Bluetooth devices cannot access it.
- **Lock**/**Unlock**: lock the file to prevent it from being deleted, or unlock the file.
- **Properties**: access the file properties.
- **Key management**: manage the licence keys you have acquired.

Downloading sound clips

1. Select **Shop Tones**. You are connected to the preset website by your service provider.
2. Search for the file you want and follow the onscreen instructions to download it.

Music *(Menu 6.4)*

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

Playing a music file

Select a music file. The media player opens.
▶ p. 46

Using music options

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

- **Play**: play the music file.

- **Add to play list**: add the file to the play list.
- **Send via**: send the file via MMS or Bluetooth.
- **Set as**: set the file as your ringtone or as a caller ID for a Phonebook entry.
- **Activate key**: get a new licence key when the key for the selected DRM file expires.
- **Reactivate key**: get another licence key even when the key for the selected DRM file has not expired.
- **Move**: move the file to another folder.
- **Copy**: copy the file to another folder.
- **Delete**: delete the selected file or all files.
- **Rename**: change the file name.
- **Create folder**: add a new folder.
- **Bluetooth visibility**: share the file with other Bluetooth devices, or hide the file so that other Bluetooth devices cannot access it.
- **Lock**/**Unlock**: lock the file to prevent it from being deleted, or unlock the file.
- **Properties**: access the file properties.
- **Key management**: manage the licence keys you have acquired.

Downloading music files

1. Select **Shop Music**. You are connected to the website preset by your service provider.
2. Search for the file you want and follow the onscreen instructions to download it.

Games and more *(Menu 6.5)*

Use this menu to access the embedded Java games and download Java applications.

Accessing an applications

Select an application from the application list and follow the onscreen instructions. The procedure may differ from application to application.

Using Java application options

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

- **Download**: connect to the preset website and download games or other Java applications.
- **Launch**: launch the selected application.
- **Network settings**: select a connection profile to be used for applications requiring network access. You can also create or edit a profile. ▶ p. 105
- **Details**: access the application properties.
- **Move down**: move the game to another folder.
- **Activate key**: get a new licence key when the key for the selected DRM file expires.
- **Reactive key**: get another licence key even when the key for the selected DRM file has not expired.
- **Delete**: delete the selected application or game folder, except for embedded games and default game folder.
- **Rename**: change the name of the game or game folder.
- **Lock**/**Unlock**: lock the application to prevent it from being deleted, moved, and renamed, or unlock the application.
- **New folder**: add a new folder.
- **Memory status**: access memory information for each folder in **My files**.
- **Key management**: manage the licence keys you have acquired.

Downloading new applications

1. Select **Get games**. You are connected to the website preset by your service provider.
2. Search for the application you want and follow the onscreen instructions to download it.

Other files *(Menu 6.6)*

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.

Memory status *(Menu 6.7)*

Use this menu to view memory information for media items in each folder.

Camera *(Menu 7)*

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 [📷].

- 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. Access the **Camera** menu to turn on the camera. You can also press and hold [ ] in Idle mode.
2. Make any desired adjustments.
   - Press < > to access camera options. ▶ next section
   - Use the keypad to change the camera settings or switch to other modes. ▶ p. 73
3. Press [ ] or [ ] to take a photo. The photo is saved in the **Photos** folder.
4.

To	Press
access photo options	<**Options**>. ▶ p. 73
delete the photo	[**C**] and then <**Yes**>.
send the photo via MMS	[ ]. ▶ p. 78

4.

To	Press
return to Capture mode	<**Back**>.

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 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.

  Mosaic shot: take several stills and save them in one frame. You can select the layout. Press [ ] to take each photo.

- **Effects**: change the colour tone of the image.
- **Frames**: apply a decorative frame.
- **Timer**: set a time delay before the camera takes a photo.
- **Go to Photos**: access the **Photos** folder.
- **Camera settings**: change the default settings for taking a photo.

  Function: change the following default camera functions:

  - **Size**: select an image size.
  - **Photo quality**: select an image quality.
  - **Viewfinder**: select a preview screen.
  - **Scene programs**: set whether to use Night shot mode.
  - **Metering exposure**: 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.
  - **White balance**: adjust the colour temperature of the camera. Depending on the current lighting conditions, you can make the video look warmer or cooler.

  Setup: change the additional settings:

  - **Shutter sound**: select the sound that you hear when you press the shutter release key.
  - **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 file names.
- **Camera shortcuts**: view the functions of the keys you can use in Capture mode.

Using the keypad in Capture mode

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

Key	Function
Left/Right	Adjusts the brightness.
Up/Down	Zooms in or out. (Not available for the maximum size)
▲	Flips the image vertically.
▼	Shows the mirror image.
1	Switches to Record mode. ▶ p. 74
2	Changes the image size.
3	Changes the image quality.
4	Changes the shooting mode.
5	Changes the colour tone or applies a special effect.
6	Changes the white balance.
7	Adds a decorative frame.
8	Sets the timer.
0	Goes to the **Photos** folder.
#	Changes the preview screen.

Using photo options

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

- **Viewfinder**: return to Capture mode.
- **View**: access one of the multi-shot photos.
- **Send via**/**Send**: send the file via MMS or Bluetooth.
- **Delete**: delete the file, or all of the multi-shot photos.

- **Set as**: set the photo as wallpaper for the main display or as a caller ID image for a Phonebook entry.
- **Go to Photos**: access the **Photos** folder. ▶ p. 63
- **Rename**: change the file name.

Recording a video

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

Recording a video

1. Access the **Camera** menu to turn on the camera. You can also press and hold [ ] in Idle mode.
2. Press [**1**] to switch to Record mode.
3. Make any desired adjustments.
   - Press < > to access camera options. ▶ next section
   - Use the keypad to change the camera settings or switch to other modes. ▶ p. 75
4. Press [ ] or [ ] to start recording.
5. Press [ ] or [ ] to stop recording. The video is saved in the **Videos** folder.
6.

To	Press
access video options	<**Options**>. ▶ p. 76
delete the video clip	[**C**] and then <**Yes**>.
return to Record mode	<**Back**>.

Using camera options in Record mode

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

- **Take photo**: switch to Capture mode.
- **Effects**: change the colour tone of the image.

- **Timer**: set a time delay before the camera takes a photo.
- **Go to Videos**: access the **Videos** folder. ▶ p. 64
- **Video settings**: change the following settings for recording a video:

  Quality: select an image quality.

  Recording time: select a video recording mode.

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

  Select **Normal** to record a video within the limit of the currently available memory. The length of your video is determined by how much memory has been used.

  Audio record: turn the audio on or off.

  White balance: adjust the colour temperature of the camera. Depending on the current lighting conditions, you can make the video look warmer or cooler.

  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 file names.
- **Camcorder shortcuts**: view the functions of the keys you can use in Record mode.

Using the keypad in Record mode

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

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

Key	Function
1	Switches to Capture mode. ▶ p. 70
2	Changes the frame size.
3	Changes the image quality.
4	Changes the video recording mode.
5	Changes the colour tone or applies a special effect.
6	Changes the white balance.
7	Mutes or unmutes audio.
8	Sets the timer.
0	Goes to the **Videos** folder.

Using video options

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

- **Play**: play back the file.
- **Send via**: send the file via MMS or Bluetooth.
- **Delete**: delete the file.
- **Rename**: change the file name.
- **Go to Videos**: access the **Videos** folder. ▶ p. 64
- **Bluetooth visibility**: share the file with other Bluetooth devices, or hide the file so that other Bluetooth devices cannot access it.
- **Lock**: lock the file to prevent it from being deleted, or unlock the file.
- **Properties**: access the file properties.

Messages *(Menu 8)*

Use the **Messages** menu to send and receive text messages, multimedia messages, and e-mails. You can also access push messages, voicemails, broadcast messages, and configuration messages.

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

Create new *(Menu 8.1)*

Use this menu to create and send text messages, multimedia messages, or e-mails.

SMS *(Menu 8.1.1)*

Short Message Service (SMS) allows you to send or receive text messages.

Creating and sending an SMS message

1. Enter your message and press [ ].

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

2. Enter a destination number.
   To send the message to more than one recipient, fill in additional destination fields.
3. Press [ ] to send the message.

Using options while composing an SMS message

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

- **Send**: send the message.

- **Input method**: change the text input mode.
- **Insert**: insert a text template, Contacts entry, or bookmarked URL address.
- **Save to Drafts**: save the message in the **Drafts** folder.

MMS *(Menu 8.1.2)*

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

Creating and sending an MMS message

1. Enter the message subject.

   ☑ You can use various options by pressing <**Options**> in each field. ▶ next section

2. Select the **Text** line.
3. Enter the message text and press [ ].
4. Select the **Picture or Video** or **Audio** line and add an image, a video, or a sound clip.

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

5. When you have finished, press [ ].
6. Enter a phone number or an e-mail address. To send the message to more than one recipient, fill in additional destination fields.
7. Press [ ] to send the message.

Using options while composing an MMS message

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

- **Input**: enter the message text.

- **Add file(s)**: add an image, video, or sound clip.
- **Send**: send the message.
- **Preview**: view the message as it will be shown on the recipient's phone.
- **Input method**: change the text input mode.
- **Input language**: change the language to be used in T9 input mode.
- **Insert text template**: insert a text template.
- **Save to Drafts**: save the message in the **Drafts** folder.
- **Add page**: add pages. Move to each page by pressing [Left] or [Right].
- **Move page**: move the current page backward or forward to change the page order.
- **Delete page**: delete a page.
- **Edit style**: change the page properties.

  This page: set the page duration and change font colour and style for the selected page.

  All page: change the background colour and page layout.
- **Edit text**/**Change file**: edit the added text, image, video, or sound clip.
- **Delete text**/**Delete file**: delete the added text, image, video, or sound clip.
- **Save as template**: save the message as a template in the **MMS templates** folder.

Email *(Menu 8.1.3)*

You can send and receive e-mails that include text, audio, and images. To use this feature, you need to subscribe to an e-mail service and set up your e-mail account. ▶ p. 92

Creating and sending an e-mail

1. Enter the e-mail subject.

   ☑ You can use various options by pressing <**Options**> in each field. ▶ next section

2. Move to the **Message** field.
3. Enter the message text.
4. Move to the **Attach files** line.
5. Press <**Options**> and select **Add files**, **Add name card**, or **Add v-calendar**.
6. Select images, videos, sounds, name cards, or calendar data.
7. Press <**Options**> and select **Attach**.
8. When you have finished, press [ ].
9. Enter an e-mail address.
   To send the e-mail to more than one recipient, fill in additional destination fields.
10. Press [ ] to send the e-mail.

Using options while composing an e-mail

While composing an e-mail, press <**Options**> to access the following options in each field:

- **Send**: send the message.
- **Input method**: change the text input mode.
- **Insert text template**: insert a text template.
- **Insert**: insert a text template, Contacts entry, or bookmarked URL address.
- **Attached file list**: access the file list you attached.
- **Add files**: add images, videos, or sounds.
- **Add name card**: attach a Contacts entry as a name card.
- **Add v-calendar**: attach calendar data as a data format attachment.
- **Delete all attachments**: delete all attachments.

- **Save to Drafts**: save the e-mail in the **Drafts** folder.

Inbox *(Menu 8.2)*

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

Viewing a message

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

- SMS message
- MMS message
- MMS notification
- Push message from web servers
- Configuration message, containing network parameters from your service provider
- Broadcast message from your service provider
- Delivery report for your sent messages

> - Depending on the DRM (Digital Rights Management) system, messages having web content may not be able to be forwarded.
> - A **!** icon next to a message means that the message is of high priority. A grey-coloured message icon indicates low priority.

Using message options

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

SMS messages

- **Call**/**Go to URL**/**Go to RTSP**: dial the highlighted phone number or access the highlighted web link.
- **Add to Favorites**: save the highlighted web link to the bookmark list.
- **Send**: send an SMS or MMS message to the highlighted phone number or e-mail address.
- **Forward**: forward the message to other people.

- **Save to Contacts**: save the sender's phone number to Phonebook. If a phone number, e-mail address, or URL address within the message is selected, you can also save it to Phonebook.
- **Move to SIM**/**Move to Phone**: move the message between the phone's memory and the USIM/SIM card.
- **Delete**: delete the message.

MMS messages

- **Call**/**Go to URL**/**Go to RTSP**: dial the highlighted phone number or access the highlighted web link.
- **Add to Favorites**: save the highlighted web link to the bookmark list.
- **Create email**: send an e-mail to the highlighted e-mail address.
- **Create multimedia message**: send an MMS message to the highlighted phone number or e-mail address.
- **Play**: play the sound file attached to the message.
- **Reply**: reply to the sender via SMS or MMS.
- **Reply to all**: send a reply to the sender and all recipients.
- **Forward**: forward the message to other people.
- **Call back**: dial the phone number of the sender.
- **Save as template**: save the message as a template in the **MMS templates** folder.
- **Save files**: save media items from the message into your phone's memory.
- **Save to Contacts**: save the sender's phone number to Phonebook. If a phone number, e-mail address, or URL address within the message is selected, you can also save it to Phonebook.
- **Delete**: delete the message.
- **Details**: access the message properties.

Push messages

- **Go to URL**/**Go to RTSP**: connect to the URL specified in the message.
- **Delete**: delete the message.

Configuration messages

- **Install**: apply the configuration value in the message to your phone.
- **Delete**: delete the message.

Delivery reports

- **Call back**: dial the phone number of the sender.
- **Save to Contacts**: save the sender's phone number to Phonebook. If a phone number, e-mail address, or URL address within the message is selected, you can also save it to Phonebook.
- **Delete**: delete the report.

Sent box *(Menu 8.3)*

This folder stores messages that you have sent.

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

- **View**: open the selected message.
- **Forward**: forward the message to other people.
- **Sort by**: change the sort order of the message list.
- **Delete**: delete the selected message or all messages.
- **Details**: access the message properties.

Outbox *(Menu 8.4)*

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

The following icons on the message list indicates the sending status:

- Being sent
- Failed to be sent

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

- **View**: open the selected MMS message.
- **Send again**: resend the message.
- **Edit**: edit the message.
- **Cancel sending**: cancel sending the message.
- **Sort by**: change the sort order of the message list.
- **Delete**: delete the selected message or all messages.
- **Details**: access the MMS message properties.

Drafts *(Menu 8.5)*

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

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

- **View**: open the selected MMS message.
- **Edit**: edit the selected message.
- **Send**: send the message.
- **Sort by**: change the sort order of the message list.
- **Delete**: delete the selected message or all messages.

Email inbox *(Menu 8.6)*

This folder stores e-mails that you have received.

Viewing received e-mails

1. Press <**Options**> and select **Download**.
   The phone checks the e-mail server and downloads new e-mails.
2. Select an e-mail or a header.
3. If the e-mail has more than one page, press [▲/▼] to scroll through pages one by one.
4. Select an attached file to view or play it.

> ☑ Depending on the DRM (Digital Rights Management) system, messages having web content may not be able to be forwarded.

Using e-mail options

While viewing the e-mail or header, press <**Options**> to access the following options:

- **Call**/**Go to URL**/**Go to RTSP**: dial the highlighted phone number or access the highlighted web link.
- **Add to bookmarks**: save the highlighted web link to the bookmark list.
- **Create email**: send an e-mail to the highlighted e-mail address.
- **Create multimedia message**: send an MMS message to the highlighted e-mail address.
- **View**: open the selected e-mail.
- **Retrieve**: retrieve the body of the selected e-mail header from the e-mail server.
- **Reply**: send a reply to the sender.
- **Reply to all**: send a reply to the sender and all recipients.
- **Forward**: forward the e-mail to other people.
- **Download**: download new e-mails or headers from the e-mail server.
- **Sort by**: change the sort order of the e-mail list.

- **Save files**: save the selected file.
- **Save to Contacts**: extract phone numbers or e-mail addresses from the e-mail and save them in Phonebook.
- **Block**: add the sender's e-mail address or e-mail subject to the Block list to reject e-mails from that address or containing that subject.
- **Delete from phone**: delete the selected e-mail or all e-mails from the phone's memory.
- **Delete permanently**: delete the selected e-mail or all e-mails from both the phone's memory and the e-mail server.
- **Email accounts**: change the active e-mail account.
- **Details**: access the e-mail properties.

Templates *(Menu 8.7)*

Use this menu to create, edit, and send SMS templates and MMS templates.

Text templates *(Menu 8.7.1)*

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. Press <**Options**> and select **New**.
2. Enter a message and press [ ].

Using template options

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

- **Send**: create and send a new message using the template via SMS, MMS, or e-mail.
- **Edit**: change the selected template.

- **New**: add a new template.
- **Delete**: delete the selected template or all templates, except for the embedded ones.

MMS templates *(Menu 8.7.2)*

You can create MMS templates so that you can use them in composing an MMS message.

Creating a template

1. Press <**New**>, or press <**Options**> and select **New**, if one has already been stored.
2. Create a template as you would when creating an MMS message.
3. Press [ ] save the template.

Using template options

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

- **View**: open the selected template.
- **Send**: send the selected template via MMS.
- **New**: add a new template.
- **Edit**: edit the selected template.
- **Delete**: delete the selected template or all templates.

IM *(Menu 8.8)*

Instant messaging is a way of sending short, simple messages that are delivered immediately to users online at that moment.

Before using this feature, you need to subscribe to a messenger service. For further details, contact your service provider.

Delete all *(Menu 8.9)*

Use this menu to delete messages in each message type at once.

1. Press [ ] to select the message types to be cleared.

2. Press <**Delete**>.
3. Press <**Yes**> to confirm the deletion.

Settings *(Menu 8.10)*

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

SMS *(Menu 8.10.1)*

You can configure SMS settings.

- **Settings x**: set the properties of each profile:

  Centre address: store or change the number of your SMS server.

  Expiration: set the length of time your messages are stored in the SMS server.

  Default type: set the default message type. The network can convert messages into the selected format.

  Name: enter a profile name.

- **Sending settings**: set up the options for sending SMS messages:

  Keep a copy: leave copies of your messages in the **Sent box** folder after sending.

  Address book: enter the default destination number.

  Reply path: allow recipients to reply to you through your SMS server.

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

  Network selection: select **CS preferred** (GSM) or **PS preferred** (GPRS), depending on your network.

  Keep a copy: leave copies of your messages in the **Sent box** folder after sending.

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

MMS *(Menu 8.10.2)*

You can configure MMS settings.

- **Sending options**: set up the options for sending MMS messages:

  Priority: set the priority level of messages.

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

  Custom time(Hour): enter the length of time you want if you select **Custom time** in the **Expiration** option.

  Delivery: set a time delay before messages are sent.

  Custom time(Hour): enter the length of time you want if you select **Custom time** in the **Delivery** option.

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

  Request read report: send a read-replay request along with your messages.

  Keep a copy: leave copies of your messages in the **Sent box** folder after sending.

  Add signature: allow your signature to be attached to your message via File messenger.

  Input signature: enter your signature.

  Message size: select a maximum size allowed for messages. Available message size may vary, depending on your country.

- **Receiving options**: set up the options for receiving MMS messages:

  Max: determine if your phone retrieves new messages automatically when you are in your home service area roaming in another network.

  Reception within your home network or while roaming has the following options:

  - **Auto download**: the phone automatically retrieves messages from the server.
  - **Manual**: the phone receives notifications first from the server. Use the **Retrieve** option to manually retrieve new messages.

  Send delivery report: set the network to inform the sender when a message has been delivered to you.

  Send read report: determine whether or not the phone sends a read-reply when an incoming message has been read.

  Reject anonymous: reject messages from unknown senders.

  Reject advertisement: reject advertisements.

- **MMS profiles**: select a connection profile to be used for MMS. You can also create or edit a profile. ▶ p. 105
- **Creation mode**: select an MMS creation mode:

  Warning: you can create a message with any type of content and of any size, but the phone will inform you when the content and size exceed the maximum.

  Free: you can create a message with any type of content and of any size.

  Invalid page duration: you can create a message with any type of contents and size.

- **Slide interval**: select the length of time the display shows each page in a message.

Email *(Menu 8.10.3)*

You can configure e-mail settings.

> ☑ You cannot change e-mail profile settings while an e-mail is being sent or retrieved.

- **Sending options**: set up the options for sending e-mails:

  From: set the sender name.

  Sending account: select the default account.

  Priority: select the priority level of e-mails.

  Keep a copy: leave copies of your e-mails in the **Sent box** folder after sending.

  Include body when replying: set whether or not the phone includes the original e-mail text in a reply.

  Delivery report: set the network to inform you when your e-mails are delivered.

  Add my name card: allow your contact information to be attached to e-mails.

  Add signature: attach your signature to e-mails.

  Input signature: enter your signature.

- **Receiving options**: set up the options for receiving e-mails:

  Set download limit: determine the maximum size for incoming e-mails. Your phone will reject e-mails that exceed the specified size.

  Auto polling: set the phone to automatically check the e-mail server to download e-mails at the specified intervals.

  Polling frequency: set how often the phone checks the e-mail server for automatic polling.

  Block address: specify e-mail addresses to reject e-mails from those addresses, and activate or deactivate mail blocking.

Block subject: specify subjects to reject e-mails which contain those subjects you specify, and activate or deactivate mail blocking.

- **Email profiles**: select a network connection profile to be used for e-mail services. You can also create or edit a profile. ▶ p. 105
- **Email accounts**: set up an e-mail account and select an account to be used. Press <**Options**> and select **Edit** to access the following options for setting up an account:

  Account name: enter a name for the currently selected account.

  SMTP server: enter the IP address or host name of the outgoing e-mail server.

  SMTP port: enter the SMTP port number.

  Use SSL: activate the use of the SSL (Secure Sockets Layer) protocol.

  Retrieving server type: select the protocol for the incoming e-mail server. The remaining options depend on the protocol type setting.

  POP3 server/**IMAP4 server**: enter the IP address or host name of the POP3 or IMAP4 server.

  POP3 port/**IMAP4 port**: enter the POP3 or IMAP4 port number.

  Use SSL: activate the use of the SSL (Secure Sockets Layer) protocol.

  IMAP4 retrieving option: (IMAP4 protocol only): set whether the phone retrieves only new messages or all messages.

  Retrieving option: set wether the phone downloads e-mail headers only or the complete e-mail.

  Keep in server: leave the copies of e-mails on the e-mail server after retrieving.

  My address: set your e-mail address.

User name: enter the POP3 or IMAP4 user name.

Password: enter the POP3 or IMAP4 password.

Use SMTP authentication: enable SMTP authentication, which requires the user to log in before sending e-mails.

Same as POP3/IMAP4: select if you want the SMTP server to have the same parameters as the POP3 or IMAP4 server.

User name: enter the SMTP user name.

Password: enter the SMTP password.

Voice mail *(Menu 8.10.4)*

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

> ☑ You must store the voicemail server number before accessing the server. Your service provider can give you the number.

Push message *(Menu 8.10.5)*

You can select whether or not the phone receives push messages from the wireless web server.

Memory status *(Menu 8.11)*

Use this menu to view the number of messages or the amount of memory currently in use for each message type in each folder.

Settings *(Menu 9)*

The **Settings** menu provides you with various setting options to customise the phone to your preferences and needs. You can also reset the settings to their default status.

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

Profiles *(Menu 9.1)*

Your phone provides you with sound profiles that allow you to quickly and easily change the sound settings of the phone for different events or situations. Use this menu to adjust the properties of each profile and activate the profile you need.

Editing a profile

1. Scroll to the profile you want.
2. Press <**Options**> and select **Edit**.
3. Change the sound settings:
   - **Call alert type**: select an alert type for the call ringer.
   - **Voice call ringtone**: select a ringtone for voice calls.
   - **Ring tone volume**: adjust the volume for the call ringer.
   - **Message alert type**: select an alert type for the message ringer.
   - **Message alert tone**: select a ringtone for the message ringer.
   - **Message alert repetition**: select if the phone repeatedly reminds you of a new message.
   - **Phone sounds**: turn the various sounds on the phone on or off:

     All on: enable all tones.

     Popup box alerts: set the phone to beep when a pop-up window displays.

     Minute minder: set the phone to beep every minute during an outgoing call to keep you informed of the length of your call.

     Call connect tone: set the phone to beep when an outgoing call is connected to the system.

     Call end tone: set the phone to beep when a call is disconnected by the other person or due to a faded signal.

Power on/off: set the phone to beep when you turn it on or off.

Folder open/close: set the phone to sound when you open or close it.

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.

- **Keypad tones**: select a tone which sounds when you press a key.
- **Keypad tone volume**: adjust the volume of the key tones.
- **Call answer mode**: (for Car) select how to answer an incoming call.

4. When you have finished, press <**Options**> and select **Save**.

Changing an active profile

From the profile list, select the profile you want.

Display settings *(Menu 9.2)*

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

Main display *(Menu 9.2.1)*

Use this menu to change settings for the main display.

- **Wallpaper**: change the background image that is displayed on the main display.
- **Greeting message**: enter the greeting to be displayed on the main display.
- **Menu style**: select a display style for the main menu screen.
- **Dialing display**: customise the settings for numbers entered and the background colour of the display while dialling.

Front display *(Menu 9.2.2)*

Use this menu to select an image or enter text to be displayed on the external display.

- **Wallpaper**: press <**Change**> and select an image.
- **Greeting message**: enter the text you want.

Light settings *(Menu 9.2.3)*

Use this menu to change settings for light.

- **Brightness**: adjust the brightness of the main display.
- **Backlight time**: select the length of time the backlight or display stays on when the phone is not used.

  On: select the length of time the backlight stays on.

  Dim: select the length of time the display stays on in Dim mode after the backlight turns off. After a specified time, the display turns off.
- **Front LCD contrast**: you can adjust the contrast of the external display.

Time & date *(Menu 9.3)*

Use this menu to change the time and date displayed on your phone. Before setting the time and date, specify your time zone in the **World clock** menu. ▶ p. 56

- **Time set mode**: select a mode for updating the current time and date:

  Manual only: you can set the time and date manually.

  Automatic: your phone will receive time information from the network.

  Prompt first: your phone will read the MCC (Mobile Country Code) from the network and automatically update the current time for the country that you are in when you travel abroad.

  Before updating, the phone asks you to update the current time and date. Before updating, the phone will ask you if you want to update time information.

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

- **Home zone**: select your home time zone. You can view the time difference between your home time zone Green witch Mean Time (GMT).
- **Time**: enter the current time. To select AM or PM for 12-hour time format, press [Right].
- **Date**: enter the current date.
- **Time format**: select a time format.
- **Date format**: select a date format.

Phone settings *(Menu 9.4)*

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

Shortcuts *(Menu 9.4.1)*

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

Assigning a shortcut menu

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

Using shortcut options

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

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

Key management *(Menu 9.4.2)*

Use this menu to manage the licence keys you have acquired to activate media contents locked by DRM systems.

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

- **View**: open the corresponding media item.
- **Delete**: delete the selected licence key.
- **Go to My Messages**: access the message that contains the media content.
- **Go to File manager**: access the corresponding file folder.
- **Details**: access the properties of the licence key.

Call settings *(Menu 9.5)*

Use this menu to set options for call functions.

All calls *(Menu 9.5.1)*

Use this menu to change the default settings for voice calls and data calls.

Show my number

This network service allows you to hide your phone number from the person you are calling. If you select **By network**, the phone will use the default setting provided by the network.

☑ Some networks do not allow the user to change this setting.

Answering mode

Use this menu to set how to answer an incoming call.

- **Normal**: set whether a call is answered when you press <**Accept**> or [ ].
- **Any key**: set whether a call is answered when you press any key, except for <**Reject**> and [ ].

- **Active folder**: set whether a call is automatically answered when you open your phone.

Show caller information

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 front LCD**.

Voice call *(Menu 9.5.2)*

Use this menu to access network services for voice calls.

Forwarding

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

1. Select the type of calls to be diverted.
2. Select a call diverting option:
   - **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 your service area or when your phone is switched off.
   - **Cancel all**: cancel all call diverting options.
3. Enter the number to which the calls will be diverted in the **Forward to** line.
4. If you selected **No reply**, move to the **Waiting time** line and select the length of time the network delays before diverting a call.
5. Press <**Options**> and select **Activate**. To deactivate the call diverting, select **Deactivate**.

Barring

This network service allows you to restrict your calls.

1. Select the type of calls to be barred.
2. Select a call barring option:
   - **All outgoing calls**: prohibit all outgoing calls.
   - **Outgoing int'l calls**: prohibit international calls.
   - **Int'l calls exc. home**: only allow calls to numbers within the current country, and to your home country when you are abroad.
   - **All incoming calls**: prohibit all incoming calls.
   - **Incoming calls when roaming**: prohibit incoming calls when you use your phone outside of your service area.
   - **Cancel all**: cancel all call barring settings, allowing calls to be sent and received normally.
3. Enter the call barring password supplied by your service provider.
4. Press <**Options**> and select **Activate**. To deactivate the call barring, select **Deactivate**.

☑ You can change the call barring password obtained from your service provider. From the call type list, press <**Options**> and select **Change password**.

Waiting

This network service informs you when someone is calling you while you are on another call.

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

Auto redial

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

Data call *(Menu 9.5.3)*

Use this menu to change the default settings for using the data call feature.

- **Forwarding**: reroute incoming data calls to a different phone number that you specify. ▶ p. 99
- **Barring**: restrict data calls. ▶ p. 100
- **Waiting**: set the network to inform you when someone is calling you while on another call. ▶ p. 100

Connectivity *(Menu 9.6)*

Use this menu to set options for connection available on your phone.

Bluetooth *(Menu 9.6.1)*

Using Bluetooth wireless, 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 do not use the Bluetooth feature while using multimedia features, such as voice recorder, camera, and media player, or vice versa, for the better performance.
- Some devices, especially those that are not tested or approved by Bluetooth SIG, may be incompatible 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.
- **My phone's visibility**: allow other Bluetooth devices to locate to your phone, or not.
- **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 service**: display available Bluetooth services.

Searching for and pairing with a Bluetooth device

1. From the **Bluetooth** menu, 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 type of device:

   - Headset
   - Hands-free car kit
   - Mobile phone
   - Computer
   - PDA
   - Unknown device
   - Printer

   The colour of the icon indicates the status of 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 and press <**OK**>. This code is used just once and you do not 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 one, you must enter the code.

Using device options

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

- **Connect**: connect to a headset or hands-free car kit.
- **Disconnect**: end the connection with the connected device.
- **Browse device**: search for data from the device and import data directly to your phone.
- **Authorize device**/**Unauthorize device**: determine whether or not the phone asks you to permit connection when other devices try to connect to your phone.
- **Delete**: remove the selected device or all devices from the list.
- **Rename**: rename the selected device.

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 business card**/**Send via**/**Send schedule**/**Send task** → **Bluetooth** or **Via bluetooth**.

5. Select **Search new device**.
   The phone searches for devices within range and displays a list of available devices.
6. Select a device.
7. 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 and its visibility must be enabled.

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.

Network *(Menu 9.6.2)*

Use this menu to change the settings for connecting to your cellular network.

- **Network selection**: select to either manually select the network to be used while roaming outside of your home area, or to let the network be chosen automatically. You can select a network other than your home network only if there is a valid roaming agreement between the two.
- **Network mode**: select the network you use:

  Automatic: the phone scans for available networks.

  GSM 1900: the phone operates in the GSM 1900 network.

  GSM 900: the phone operates in the GSM 900 network.

  GSM 1800: the phone operates in the GSM 1800 network.

UMTS 850: the phone operates in UMTS (3G network) networks. You can get a higher speed quality than on lower generation networks, and use advanced data and information services, such as video calls.

Connections *(Menu 9.6.3)*

Use this menu to create and customise the profiles containing the settings for connecting your phone to the network. You need these settings to use the web browser or send MMS messages or e-mails.

> ☑ Your phone is set up by default for connecting to the network. If you change the settings without first checking with your service provider, the web browser, MMS, and e-mail features may not work properly.

Creating a profile

1. Press <**Options**> and select **New**.
2. Specify profile parameters:
   - **Set name**: enter a profile name.
   - **Access name**: edit the access point name used for the address of the GPRS network gateway.
   - **Auth type**: choose the type of authentication used.
   - **User ID**: enter the user ID.
   - **Password**: enter the user password.
   - **Protocol**: select the protocol from between **HTTP** and **Other**.
   - **Home URL**: (HTTP only) enter the URL address of the page to be used as your homepage.
   - **Proxy address**/**Port**: (HTTP only) set the proxy server address and port.
   - **Linger time (sec.)**: (HTTP only) set a time period after which the network is disconnected if there has been no new data traffic in that time.

- **Advanced settings**: provide you with the following options:

  Static IP: specify if you want to manually enter an IP address; see the **Local phone IP** option. If you want the IP address to be automatically assigned by the server, remove the check mark.

  Local phone IP: enter the IP address obtained from the network operator, if you checked the **Static IP** option.

  Static DNS: specify if you want to manually enter the Domain Name Server (DNS) address; see the **Server 1**/**Server 2** option.

  If you want the address to be automatically assigned by the server, remove the check mark.

  Server 1/**Server 2**: enter the Domain Name Server (DNS) addresses.

  Traffic class: select the traffic class.

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

Using profile options

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

- **View**: view the properties of the selected profile.
- **Edit**: edit the selected profile.
- **New**: add a new profile.
- **Rename**: change the profile name.
- **Delete**: delete the profile.
- **Restore**: restore the changed settings to the default status.

☑ You cannot edit or delete the default connection profiles.

Application settings *(Menu 9.7)*

You can customise the settings for using applications available on the phone.

Messaging settings *(Menu 9.7.1)*

Use this menu to change the default settings for using the messaging services. ▶ p. 88

Browser settings *(Menu 9.7.2)*

Use this menu to select a connection profile to be used for accessing the Internet. You can also create or edit a profile. ▶ p. 105

Camera settings *(Menu 9.7.3)*

Use this menu to change the default settings for taking photos. ▶ p. 72

Camcorder settings *(Menu 9.7.4)*

Use this menu to change the default settings for recording videos. ▶ p. 75

Media player settings *(Menu 9.7.5)*

Use this menu to change the default settings for playing media files in the media player. ▶ p. 47

VOD settings *(Menu 9.7.6)*

Use this menu to activate a connection profile to be used for accessing streaming servers to use VOD (Video on Demand) services. You can also create or edit a profile. ▶ p. 105

Record settings *(Menu 9.7.7)*

Use this menu to change the default settings for the voice recorder. ▶ p. 50

Address book settings *(Menu 9.7.8)*

Use this menu to change the settings for using Phonebook. ▶ p. 45

Security *(Menu 9.8)*

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

> ☑ If you enter an incorrect PIN/PIN2 three times, the USIM/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.

Phone lock *(Menu 9.8.1)*

Use this menu to protect 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 phone password** menu.

SIM lock *(Menu 9.8.2)*

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

PIN lock *(Menu 9.8.3)*

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

Lock applications *(Menu 9.8.4)*

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

FDN mode *(Menu 9.8.5)*

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

Change phone password *(Menu 9.8.6)*

Use this menu to change your phone password.

Change PIN code *(Menu 9.8.7)*

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

Change PIN2 code *(Menu 9.8.8)*

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

Reset settings *(Menu 9.9)*

Use this menu to reset the phone's settings you have changed and clear all data you have added.

1. Enter the phone password and press <**Confirm**>.

   ☑ The password is preset to **00000000**. You can change this password. ▶ p. 109

2. Press <**Yes**>. The phone automatically turns itself off and then back on.

Memory status *(Menu 9.10)*

Use this menu to check the amount of memory being used for storing data, such as messages, media, calendar data, or Phonebook entries.

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"

- 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 set 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 (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

* 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.

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.ctia.org

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 and the type of battery and charger used. The battery can be charged and discharged

hundreds of times, but it will gradually wear out. When the operation time (talk time and standby time) is noticeably shorter than normal, it is time to buy a new battery.

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

1. Get to know your wireless phone and its features, such as speed dial and redial. If available, these features

help you to place your call without taking your attention off the road.

2. When available, use a hands-free device. If possible, add an extra layer of convenience and safety to your wireless phone with one of the many hands-free accessories available today.
3. Position your wireless phone within easy reach. Be able to access your wireless phone without removing your eyes from the road. If you get an incoming call at an inconvenient time, let your voicemail answer it for you.
4. Let the person you are speaking with know you are driving; if necessary, suspend the call in heavy traffic or hazardous weather conditions. Rain, sleet, snow, ice and even heavy traffic can be hazardous.
5. Do not take notes or look up phone numbers while driving. Jotting down a To Do list or flipping through your phonebook takes your attention away from your primary responsibility, driving safely.
6. Dial sensibly and assess the traffic; if possible, place calls when you are not moving or before pulling into traffic. Try to plan calls when your car will be stationary. If you need to make a call while moving, dial only a few numbers, check the road and your mirrors, then continue.
7. Do not engage in stressful or emotional conversations that may be distracting. Make 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.
8. 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!
9. 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.
10. Call roadside assistance or a special nonemergency wireless assistance number when necessary. If you see a broken-down vehicle posing no serious hazard, a broken traffic signal, a minor traffic accident where no one appears injured, or a vehicle you know to be stolen, call roadside assistance or any other special nonemergency 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.

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 below deck on boats, chemical transfer or storage facilities, vehicles using liquefied petroleum gas (such as propane or butane), areas where the air contains chemicals or particles, such as grain, dust or metal powders, and any other area where you would normally be advised to turn off your vehicle engine.

Emergency calls

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

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

To make an emergency call:

1. If the phone is not on, switch it on.
2. Key in the emergency number for your present location (for example, 112 or any other official emergency number). Emergency numbers vary by location.
3. Press [ ].

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

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

FCC Notice and Cautions

FCC Notice

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

☑ This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will 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 receiveing antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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

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

Cautions

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

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

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

Other important safety information

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

Care and maintenance

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

- Keep your phone and all its parts and accessories out of the reach of small children and pets. They may accidentally damage these things or choke on small parts.
- Keep the phone dry. Precipitation, humidity, and liquids contain minerals that will corrode electronic circuits.
- Do not use the phone with a wet hand. Doing so may cause an electric shock to you or damage to the phone.
- Do not use or store the phone in dusty, dirty areas, as its moving parts may be damaged.
- Do not store the phone in hot areas. High temperatures can shorten the life of electronic devices, damage batteries, and warp or melt certain plastics.

- Do not store the phone in cold areas. When the phone warms up to its normal operating temperature, moisture can form inside the phone, which may damage the phone’s electronic circuit boards.
- Do not drop, knock, or shake the phone. Rough handling can break internal circuit boards.
- Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the phone. Wipe it with a soft cloth slightly dampened in a mild soap-and-water solution.
- Do not paint the phone. Paint can clog the device’s moving parts and prevent proper operation.
- Do not put the phone in or on heating devices, such as a microwave oven, a stove, or a radiator. The phone may explode when overheated.
- When the phone or battery gets wet, the label indicating water damage inside the phone changes colour. In this case, phone repairs are no longer guaranteed by the manufacturer's warranty, even if the warranty for your phone has not expired.
- If your phone has a flash or light, do not use it too close to the eyes of people or animals. This may cause damage to their eyes.
- Use only the supplied or an approved replacement antenna. 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 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 safety standards that were developed by independent scientific organizations through periodic and thorough 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 mobile phones employs a unit of measurement known as the Specific Absorption Rate (SAR). The SAR limit set by the FCC is 1.6 W/kg. 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 government adopted requirement for safe exposure. The tests are performed in positions and locations(e.g., at the ear and worn on the body) as required by the FCC for each model.

The highest reported SAR values for GSM are:
Part24 - Head: 1.29 W/kg, Body-worn: 0.265 W/kg

The highest reported SAR values for WCDMA are:
Part22 - Head: 1.24 W/kg, Body-worn: 0.540 W/kg

Body-worn operations are restricted to Sam sung supplied, approved or none Samsung designated accessories that have no metal and must provide at least 1.5 cm separation between the device, including its antenna whether extended or retracted, and the user's body. None compliance to the above restrictions may violate FCC RF exposure guidelines.

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 A3LSGHA401.

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 voicemail 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.

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.

4. 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.

5. 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.

6. 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.

7. 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.

8. 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.

9. 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, gioma, 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.

10. 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.

11. 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/topics/emf/

World health Organization (WHO):
http://www.who.int/peh-emf/

International Commission on Non-Ionizing Radiation Protection:
http://www.icnirp.de

Health Protection Agency (UK)
http://www.hpa.org.uk/radiation/*

* US Food and Drug Administration http://www.fda.gov/cellphones

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