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

SAMSUNG ELECTRONICS

Printed in Korea
Code No.:GH68-XXXXXA
English. 02/2004. Rev 1.0

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

SAMSUNG

GPRS TELEPHONE
SGH-E880

Draft version
(2005. 02. 23)

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Important safety precautions

Read these guidelines before using your wireless phone. Failure to comply with them may be dangerous or illegal.

Road safety at all times

Do not use a hand-held phone while driving; park the vehicle first.

Switching off when refuelling

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

Switching off in an aircraft

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

Switching off near all medical equipment

Switch off your phone near medical equipment. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy. Follow any regulations or rules in force.

Interference

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

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 (in a hospital for example).

Water resistance

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

Sensible use

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

Emergency call

Key in the emergency number for your present location, then press the key. Give all necessary information as accurately as possible. Do not end the call until given permission to do so.

Keeping small children away from your phone

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

Accessories and batteries

Use only Samsung-approved accessories and batteries. Use of any unauthorised accessories could damage your phone and may be dangerous.

Use only Samsung-approved batteries and recharge your battery only with Samsung-approved chargers.

Qualified service

Only qualified service personnel may repair your phone.

For more detailed safety information, see “Health and safety information” on page 176.

CAUTION

RISK OF EXPLOSION IF A BATTERY IS REPLACED BY AN INCORRECT TYPE.

DISPOSE USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

Unpacking

Your package contains the following items:

Handset

Travel Charger

Battery

User's Manual

You can obtain the following accessories for your phone from your local Samsung dealer:

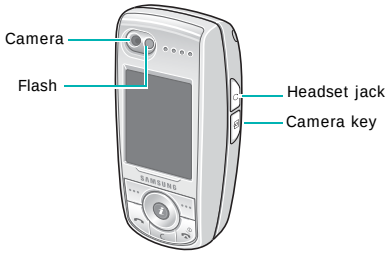
- Standard/Extended battery
- Hand strap
- Car charger
- Bluetooth handsfree car kit
- Car cradle
- Bluetooth headset kit
- Headset
- PC data link kit
- Travel charger

Notes:
- The items supplied with your phone and available accessories may be different, depending on your country or service provider.
- The supplied items may look different from the illustrations above.

Your phone

Phone layout

The following illustrations show the main elements of your phone:



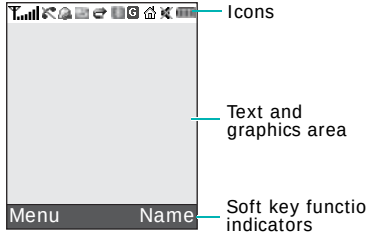
Key(s)	**Description**
(soft keys)	Performs the functions indicated on the bottom line of the display.
	In Idle mode, allows you to access your favourite menu options directly. For further details about shortcuts, see page 147. In Menu mode, scrolls through the menu options and Phonebook. When entering text, moves the cursor.
	In Idle mode, launches the WAP (Wireless Application Protocol) browser. In Menu mode, confirms the selected menu option or your input.
	Deletes characters from the display. Clears an item in a message folder, file folder, or the organiser.
	Makes or answers a call. In Idle mode, retrieves the most recent numbers dialled, missed, or received.
	Ends a call. Also switches the phone on and off when held down. In Menu mode, cancels your input and returns the phone to Idle mode.
	Enters numbers, letters, and some special characters. In Idle mode, the **1** key connects to your voicemail server, and the **0** key inserts the prefix (+) for international calls.

Key(s)	**Description** (continued)
	Enters special characters. Performs various functions.
	(on the left side) Adjusts the volume level for various sounds for the phone. With the phone closed, turns on the flashlight or activates the clock on the external display when held down.
	(on the right side) In Idle mode, accesses the **Camera** menu. Turns on the camera when held down. In Camera mode, takes a photo or starts recording a video.

Display

Display layout

The display has three areas:



Area	Description
First line	Displays various icons. See page 14.
Middle	Displays messages, instructions, and any information that you enter, such as the number you are dialling.
Last line	Shows the current functions assigned to the two soft keys.

Icons

Icon	Description
	Shows the received signal strength. The greater the number of bars, the stronger the signal.
	Appears when a call is in progress.
	Appears when you are out of your service area. When it displays, you cannot make or receive a call.
	Appears when you have set an alarm to ring at a specified time.
	Appears when a new message has been received.
	Appears when a new voice mail message has been received.
	Appears when the Call Diverting feature is active.
	Appears when the Bluetooth feature is active.
	Appears when you are connected to the GPRS network.
	Appears when you are in the Home Zone if you have registered for the appropriate service.
	Appears when you are in the Office Zone if you have registered for the appropriate service.

Icon	Description (continued)
	Appears when you have set the phone to vibrate for an incoming call.
	Appears when Quiet mode is active.
	Shows the level of your battery. The more bars you see, the more power you have remaining.

External display

Your phone has an external display on the front of the phone. When you close the phone, it shows the phone's status and the current time and date. It also alerts you to incoming calls and messages, and an alarm set when a specified time comes.

You can change the backlight time and icon display setting in the **Backlight** menu (**Menu 9.3.5**). For further details, see page 149.

Using the external display, you can take photos, record videos, enjoy music with the phone closed.

Backlight

The backlight illuminates the display and the keypad. When you press any key or open the phone, the backlight comes on. It goes off when no keys have been pressed within a given period of time, and then the phone's display turns off a specified period of time, depending on the setting in the **Backlight** menu (**Menu 9.3.5**). For further details, see page 149.

Camera

The camera module on the back of your phone allows you to take a photo and record a video while on the move.

For further details about the Camera feature, see page 133.

Flash

You can use the flash next to the camera to take photos when it's dark. It also functions as a flashlight which can be used at night.

To turn the flashlight on or off, press and hold either of the Volume keys with the phone closed.

Getting started

Installing the SIM card

When you subscribe to a cellular network, you are provided with a plug-in SIM card loaded with your subscription details, such as your PIN, any optional services available, and so on.

Important! The plug-in SIM card and its contacts can be easily damaged by scratches or bending, so be careful when handling, inserting, or removing the card.

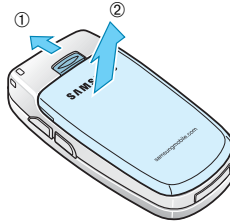
Keep all SIM cards out of the reach of small children.

1. If the phone is on, switch off the phone by holding down the key until the power-off image displays.

2. Remove the battery. To do so:

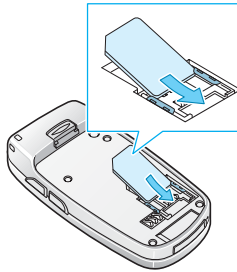
   ① Press and hold the catch above the battery toward the top of the phone.

   ② Lift the battery away, as shown.

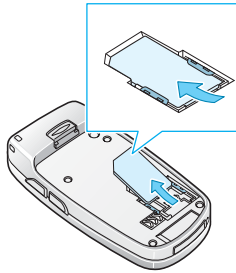


3. Slide the SIM card into the SIM card socket, as shown, so that the card locks into position.

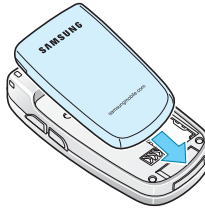
   Make sure the gold-coloured contacts on the card face into the phone.



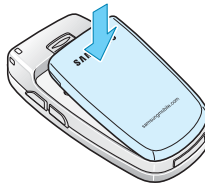
Note: Remove the SIM card, slide it upwards, as shown, and take it out of the socket.



4. Place the battery so that the tabs on the end align with the slots at the bottom of the phone.



5. Press the battery until it clicks into place. Make sure that the battery is properly installed before switching the power on.



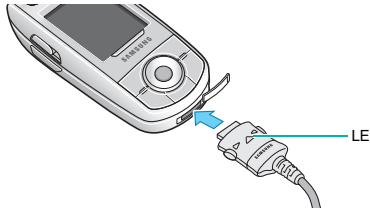
Charging the battery

Your phone is powered by a rechargeable Li-ion battery. A travel charger comes with your phone for charging the battery.

The travel charger allows you to use the phone while the battery is charging, but this causes the phone to charge more slowly.

Note: You must fully charge the battery before using your phone for the first time. A discharged battery recharges fully in approximately 90 minutes.

1. With the battery in position on the phone, plug the connector of the travel charger into the jack at the bottom of the phone.

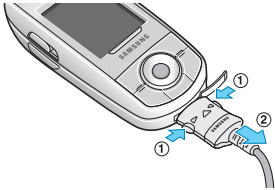


2. Plug the adapter into a standard AC wall outlet.

   The LED on the charger indicates the charging progress by the following colours:

   - Red: the battery is being charged.
   - Green: the battery is completely charged.
   - Orange: the battery is not correctly plugged in or is operating at a too high or too low.

3. When charging is finished, unplug the charger from the power outlet and disconnect it from the phone by pressing the buttons on both sides of the connector and pulling out the connector.



Note: You must unplug the charger before removing the battery from the phone during charging; otherwise, the phone could be damaged.

Low battery indicator

When the battery is weak and only a few minutes of talk time remain, a warning tone sounds and the “Battery low” message repeats at regular intervals on the display. In this case, your phone turns off the backlight to conserve the remaining battery power. You may not be able to use more battery consuming features, like the camera, games, MP3 player.

If the battery level becomes too low, the phone will automatically turn off.

Switching the phone on or off

1. Open the phone.

2. Press and hold the key until the phone switches on.

3. If the phone asks you to enter a password, enter the password and press the **OK** soft key.

   Note: The password is preset to “00000000” at the factory. To change this password, see page xx.

4. If the phone asks for a PIN, enter the PIN and press the **OK** soft key.

   The phone searches for your network and, after finding it, the idle screen appears on the display. Now, you can dial or receive calls.

   Note: To change the display language, use the **Language** menu (**Menu 9.2.1**). For further details, see page 146.

5. When you wish to switch off the phone, press and hold the key until the power-off image displays.

WARING!

Do not switch on the phone when mobile Phone use is prohibited or when it may cause interference or danger.

Selecting functions and options

Your phone offers a set of functions that allow you to customise and use it. These functions are arranged in menus and sub-menus, accessed using the two soft keys, [...] and [...].

Using the soft keys

The roles of the soft keys vary, depending on the function you are currently using; the labels on the bottom line of the display their current roles.

Example:

Press the left soft key to access Menu mode.

Press the right soft key to access **Contact list** in the **Phonebook** menu.

Selecting options

To view the various functions and options available and to select the one you want:

1. Press the appropriate soft key.

2.

To	Press the
select the: • function displayed • option highlighted	**Select** soft key or the *i* key.
view the next function or highlight the next option on a list	Down key.
move back to the previous function or option on a list	Up key.
move back up one level in the menu structure	**Back** soft key.
return to Idle mode without changing the settings	key.

In some functions, you may be asked for a password or PIN. Enter the code and press the **OK** soft key.

Note: When you access a list of options, your phone highlights the currently active option. If, however, there are only two options, such as **On**/**Off** or **Enable**/**Disable**, your phone highlights the option that is not currently active, so that you can select it directly.

Call functions

Making a call

1. When the idle screen displays, enter the area code and phone number, then press the key.
2. When you want to end your call, press the key or close the phone.

Note: When you have activated the **Auto redial** option in the **Extra settings** menu (**Menu 9.2.4**), the phone automatically redial up to 10 times if the person does not answer the call or is already on the phone. See page 147 for further details.

Making an international call

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

Correcting the number

To clear	Press the
the last digit displayed	**C** key.
any other digit in the number	Left or Right key until the cursor is immediately to the right of the digit to be cleared and press the **C** key. You can also insert a missing digit.
the whole display	**C** key and hold it for more than one second.

Redialling the last number

The phone stores the numbers of the calls you've dialled, received, or missed, if the call recipient or caller can be identified.

To recall any of these numbers:

1. In Idle mode, press the key to display a list of the most recent numbers used.
2. Press the Left or Right key to move to other call types.
3. Press the Up or Down key to scroll through the numbers until the number you want highlights.
4. Press the key to dial the highlighted number.

See "Call records" on page 54 for further details.

Making a call from Phonebook

You can store phone numbers that you use regularly on the SIM card or in the phone's memory. These entries are collectively called Phonebook.

Once you have stored a number in Phonebook, you can dial it by pressing a few keys. You can also assign your most frequently-used numbers to number keys using the Speed Dial feature.

For further details about the Phonebook feature, see page 58.

Storing a number in Phonebook

Note: You also use the **Add new contact** menu (**Menu 2.2**) to store a number. For details, see page 60.

To store a number in the phone's memory:

1. Enter the number you want to store and press the **Options** soft key.

2. Select **Save contacts to** and press the **Select** soft key.

3. Select **Phone** and press the **Select** soft key.

4. Select an icon to identify the category in which the number is to be stored and press the **Select** soft key.
   - **Mobile**
   - **Home**
   - **Office**
   - **Fax**
   - **Other**

5. Enter information about the contact. The following fields are available:
   - **First name**/**Last name**: Enter the entry name. For further details about how to enter characters, see page 33.
   - **Mobile**/**Home**/**Office**/**Fax**/**Other**: Add a number for any category.
   - **E-mail**: Enter an e-mail address.
   - **Graphic ID**: Assign an image as a caller ID image to be displayed when you receive a call from the selected number.

- **Ringer ID**: Select a unique ringer melody for the entry. By selecting a different tone for each entry, incoming voice calls having a caller ID can be distinguished from each other.
- **Group**: Select one of the default relation groups, where the entry is included.
- **Memo**: Add a memo about the person.

6. Press the **Save** soft key.

7.

To	Press the
use the entry options	**Options** soft key. For further details, see page 59.
make a call	Select a number and press the key.
return to Idle mode	key.

To store a number on the SIM card:

Note: When you change phones, any numbers stored in your SIM card are automatically available with the new phone, whereas any numbers stored in the phone's memory will need to be reentered.

1. Enter the number you want to store and press the **Options** soft key.
2. Select **Save Contact to** and press the **Select** soft key.
3. Select **SIM** and press the **Select** soft key.
4. Press the Up key and enter a name.
5. Press the Down key twice.

6. If you want another location, press the **C** key to clear the location number and enter the number you want.

7. Press the **Save** soft key.

8.

To	Press the
use the entry options	**Options** soft key. For further details, see page 59.
make a call	key.
return to Idle mode	key.

Dialling a number from Phonebook

After storing numbers you can dial them by entering their location numbers. For entries in the phone's memory, the location numbers are assigned in order in which they are saved.

Note: If you cannot remember a location number or if you want to dial a number in the phone's memory, you must go into the **Contact list** menu (**Menu 2.1**) to search for the entry by name. For details, see page 58.

To dial a number from the SIM card:

1. In Idle mode, enter the location number you can and press the # key.

2. You can press the Left or Right key to find other numbers.

3. Press the **Dial** soft key when you have found the number you want.

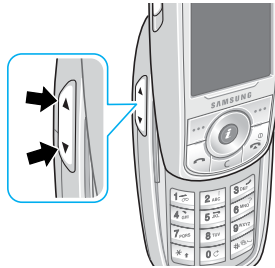
To dial a number from the phone's memory:

1. In Idle mode, press and hold the **0** key to display "+."
2. Enter the location number you want and press the # key.
3. You can press the Left or Right key to find other numbers.
4. Press the **Dial** soft key when you have found the number you want.

Adjusting the volume

During a call, if you want to adjust the earpiece volume, use the Volume keys on the left side of the phone.

Press the ▲ key to increase the volume level and the ▼ key to decrease the level.



In Idle mode, you can also adjust the keypad tone volume using these keys.

Answering a call

When somebody calls you, the phone rings and displays the incoming call image.

The caller's phone number or name, if stored in Phonebook, displays.

1. Press the key or the **Accept** soft key or open the phone to answer the incoming call.

   When the **Anykey answer** option in the **Extra Settings** menu (**Menu 9.2.4**) is active, you can press any key to answer a call except for the key and the **Reject** soft key. See page 148.

   When the **Active folder** option in the **Extra settings** menu is active, you can just open the phone to answer a call.

   Note: To reject the call, press and hold either of the Volume keys before opening the phone, or press the **Reject** soft key or the key.

2. End the call by closing the phone or pressing the key.

Note: You can answer a call while using menu features or Phonebook. After ending the call, the display returns to the function screen you were using.

Viewing missed calls

When you are unable to answer a call for any reason, you can find out who called you.

The number of calls you have missed displays on the idle screen immediately after a call is missed.

To view a missed call immediately:

1. If the phone is closed, open the phone.

2. Press the **View** soft key.

3.

To	Press the
scroll through the missed calls, if necessary	Up or Down key.
access the options	**Options** soft key. See below.
call the number displayed	key.

When you press the **Options** soft key, you can access the following options:

Details: shows information about the call.

Call back: calls back the caller.

Paste: allows you to paste the number in the Dialling mode screen.

Send message: allows you to send an SMS (Short Message Service) or MMS (Multimedia Message Service) message to the number. For further details, see page 91 or page 93, respectively.

Delete: deletes the current call.

Delete all: deletes all calls.

Quickly switching to Quiet mode

Quiet mode is convenient when you wish to stop the phone from ringing, in a theatre for example.

In Idle mode, press and hold the # key until the “Quiet mode” message and the Quiet mode icon ( ) display.

In Quiet mode, instead of making sounds, your phone will vibrate, or do nothing, depending on the function and the situation.

To exit and reactivate the previous sound settings, press and hold the # key again until “Exit quiet mode” appears. The Quiet mode icon no longer displays.

Using the headset

With the headset, you can make or answer calls without holding the phone.

Connect the headset to the jack on the left side of the phone. The button on the headset works as listed below:

To	Press the
redial the last call	button to display call logs and then press and hold the button.
answer a call	button for more than two seconds when the phone rings.
end a call	button for more than two seconds.

Entering text

When using your phone, you will often need to enter text, such as when storing a name in Phonebook, creating your personal greeting, or scheduling events on your calendar. You can enter alphanumeric characters by using your phone's keypad.

Your phone has the following text input modes:

- **AB mode**

  This mode allows you to enter letters by pressing the key labelled with the letter you want.

- **T9 mode**

  This mode allows you to enter words with only one keystroke per letter. Each key on the keypad has more than one letter; for example, pressing the **5** key can enter J, K, or L.

- **Numeric mode**

  This mode allows you to enter numbers.

- **Symbol mode**

  This mode allows you to enter various symbols and punctuation marks.

Changing the text input mode

When you are in a field that allows characters to be entered, you will notice the text input mode indicator on the display.

Example: Writing a text message

Text input mode indicator

To change the text input mode:

- Press and hold the * key to switch between T9 mode and AB mode.
- Press the * key to shift case in T9 or AB mode or switch to Numeric mode.

  3 cases are available: Initial capital (AB), Capital lock (Ab), and Lower case (ab).
- Press and hold the key to switch to Symbol mode.

Using AB mode

Use the **1** to **0** keys to enter your text.

1. Press the keys labelled with the letter you want:

   - Once for the first letter
   - Twice for the second letter
   - And so on

2. Select the other letters in the same way.
   - To insert a space, press the # key.
   - You can move the cursor by pressing the Navigation keys. To delete letters, press the **C** key. Press and hold the **C** key to clear the entire display.

Note: The cursor moves to the right when you press a different key. When entering the same letter twice or a different letter on the same key, just wait for a few seconds for the cursor to move to the right automatically, or press the Right key to move the cursor. Then enter the next letter.

Refer to the table below for further details about available characters:

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

Note: The characters available in AB mode may be different, depending on your country.

Using T9 mode

T9 is a predictive text input mode that allows you to key in any character using single keystrokes. This text input mode is based on a built-in dictionary.

To enter a word in T9 mode:

1. When you are in T9 mode, start entering a word by pressing the **2** to **9** keys. Press each key only once for each letter.

   Example: To enter “Hello” in T9 mode, press the **4**, **3**, **5**, **5**, and **6** keys.

   The word that you are typing appears on the display. It may change with each key that you press.

2. Enter the whole word before editing or deleting the keystrokes.

3. When the word displays correctly, go to step 4.

   If the word doesn’t display correctly, press the **0** key repeatedly to display alternative word choices for the keys that you have pressed.

   Example: Both “Of” and “Me” use the **6** and **3** keys. The phone displays the most commonly used choice first.

4. Insert a space by pressing the **#** key and start entering the next word.

   - To enter periods or apostrophes, press the **1** key. T9 mode applies grammar rules to choose the correct punctuation.
   - You can move the cursor by pressing the Navigation keys. To delete letters, press the **C** key. Press and hold the **C** key to clear the entire display.

To add a new word into the T9 dictionary:

1. After pressing the keys corresponding to the word you want to add, press the **0** key to display the alternative words.

2. When there are no more alternative words, the display shows **Add** on the bottom line. Press the **Add** soft key.

3. Enter the word you want to add using AB mode; see page 34.

4. Press the **OK** soft key.

   The word is added to the T9 dictionary and becomes the first word for the associated keypress series.

Note: This feature may not be available for some languages.

Using Numeric mode

Use Numeric mode to enter numbers. Press the keys corresponding to the digits you want to enter.

Using Symbol mode

Use Symbol mode to insert symbols.

To	Press the
select a symbol	corresponding number key.
display more symbols	Up or Down key.
clear the symbol(s)	**C** key.
insert the symbol(s) into text	**OK** soft key.

Options during a call

You can access a number of control functions that you can use during a call.

Putting a call on hold

You can place the current call on hold whenever you want. You can make another call while you have a call in progress if your network supports this service.

To place a call on hold, simply press the **Hold** soft key. You can reactivate the call whenever you want, by pressing the **Retrieve** soft key.

To make a call while you have a call in progress:

1. Enter the phone number that you wish to dial, or look it up in Phonebook.

   For details about searching for a number in Phonebook, see page 58.

2. Press the key to dial the second call.

   The first call is automatically put on hold.

Alternatively,

1. Put the current call on hold by pressing the **Hold** soft key.

2. Make the second call in the normal way.

When you have an active call and a call on hold, you may switch between the two calls, changing the one on hold to active and placing the other on hold.

To switch between the two calls, simply press the **Swap** soft key.

The current call is placed on hold and the call on hold is reactivated so that you can continue conversing with that person.

When you want to finish, end each call normally by pressing the key.

Using the speaker

You can speak and listen to the phone from a short distance without having to hold the phone to your ear, for example, having it on a table nearby.

To use this feature, press the *i* key during a call. A icon appears on the bottom line of the screen.

To return to the normal phone mode, press the *i* key again a icon appears on the bottom line of the screen.

Note: When you are in Speaker mode, the Voice Clarity feature is automatically disabled.

Call waiting

You can answer an incoming call while you have a call in progress, if your network supports this service and you have set the **Call waiting** menu (**Menu 9.5.3**) to **Activate**. You are notified of an incoming call by a call waiting tone.

To answer a call while you have a call in progress:

1. Press the key to answer the incoming call. The first call is automatically put on hold.
2. To switch between the two calls, press the **Swap** soft key.
3. To end the call on hold, press the **Options** soft key and select **End held call**.

To end the current call, press the key.

Using the Bluetooth headset

Using the Bluetooth headset, you can converse with the person on the phone without having to hold the phone to your ear during a call.

To use this feature, you first need to register your headset and connect it to the phone. For further details, see page 163.

To use the Bluetooth headset:

1. Put on the headset.
2. Press the **Options** soft key.
3. Select **Switch to headset** and press the **Select** soft key.

   Now you can talk to the other person via the headset.

To return to the normal phone mode:

1. Press the **Options** soft key.
2. Select **Switch to phone** and press the **Select** soft key.

Switching the Voice Clarity feature on or off

You can increase the microphone's sensitivity to allow the other person on the phone to hear your voice even though you may be whispering.

Note: If you are using the Speaker feature, you must first deactivate it in order to use the Voice Clarity feature.

To switch the Voice Clarity feature on:

1. Press the **Options** soft key.
2. Select **Voice clarity on** and press the **Select** soft key.

To switch the Voice Clarity feature off:

1. Press the **Options** soft key.
2. Select **Voice clarity off** and press the **Select** soft key.

Switching off the microphone (Mute)

You can temporarily switch off your phone's microphone so that the person on the phone cannot hear you.

Example: You wish to say something to a person in the room, but do not want the person on the phone to hear you.

To switch the microphone off temporarily:

1. Press the **Options** soft key.
2. Select **Mute** and press the **Select** soft key.

   The person can no longer hear you.

To switch the microphone back on:

1. Press the **Options** soft key.
2. Select **Unmute** and press the **Select** soft key.

   The person can hear you again.

Muting or sending key tones

Mute keys and **Send keys** options allow you to turn the key tones off or on.

If **Mute keys** is selected, your phone does not transmit the DTMF (Dual Tone Multi-Frequency) tones of the keys, which allows you to press keys without hearing annoying key tones during a call.

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

Using Phonebook

You can use the **Phonebook** option during a call to search for or store entries.

For further details about the Phonebook feature, see page 58.

Sending a sequence of DTMF tones

You can send DTMF tones as a group after entering the entire number you need to send.

This option is helpful for entering a password or an account number when you call an automated system, like a banking service.

To send DTMF tones:

1. While connected to the teleservice system, press the **Options** soft key.
2. Select **Send DTMF** and press the select soft key.
3. Enter the number you want to send and press the **OK** soft key.

   The tones are sent.

Using the message service

If you receive a message during a call, the Message icon (✉) appears on the display. The **Message** option enables you to read the message. You can also send a new message.

For further details about the Messages feature, see page 90.

Using SIM services

The **SIM service** menu is available if you use a SIM card that provides additional services, such as news, weather, sports, entertainment, and location services. Available services may vary, depending on your service provider's service plans.

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

Making a multi-party call

A multi-party call is a network service that allows up to 6 people to take part simultaneously in a multi-party or conference call. For further details about subscribing to this service, contact your service provider.

Setting up a multi-party call

1. Call the first participant in the normal way.

2. Call the second participant in the normal way. The first call is automatically put on hold.

3. To join the first participant to the multi-party call, press the **Options** soft key and select **Join**. Press the **Select** soft key.

4. To add a new person to the multi-party call, call the new person in the normal way and press the **Options** soft key. Select **Join** and press the **Select** soft key.

   You can add incoming callers by answering the call, pressing the **Options** soft key, and selecting **Join**.

Having a private conversation with one participant

1. During a multi-party call, press the **Options** soft key.

2. Select Split and press the **Select** soft key.

3. Highlight a person from the call participant list and press the **Select** soft key.

   Now you can talk privately to that person. The other participants can still converse with each other.

4. To return to the multi-party call, press the **Options** soft key and select the **Join** option. Press the **Select** soft key.

   All the multi-party call participants can now hear each other.

Dropping one participant

1. During a multi-party call, press the **Options** soft key.

2. Select **Remove** and press the **Select** soft key.

3. Highlight a person from the call participant list and press the **Select** soft key.

   The call with that participant ends, but you can continue to talk to the others.

4. When you want to end the multi-party call, close the phone or press the key.

Using the menus

The phone offers a range of functions that allow you to tailor it to your needs. These functions are arranged in menus and sub-menus and can be accessed by scrolling or by using shortcuts.

Accessing a menu function by scrolling

1. In Idle mode, press the **Menu** soft key to access Menu mode.

2. Scroll by pressing the Navigation keys to reach a main menu, **Settings** for example, and press the **Select** soft key.

3. If the menu contains sub-menus, **Phone Settings** for example, you can access them by pressing the Up or Down key and press the **Select** soft key.

   Note: You can move to other main menus by pressing the Left or Right key.

   If the menu that you have selected contains further options, repeat this step.

4.

To	Press the
scroll through the menus	Up or Down key.
confirm the chosen setting	**Select** soft key or the *i* key.
return to the previous menu level	**Back** soft key.
return to Idle mode	key.

Using shortcuts

Menu items, such as menus, sub-menus, and options, can be accessed quickly by using their shortcut numbers.

Press the **Menu** soft key and enter the number of the menu you want.

Note: The numbers assigned to each menu are indicated on the list on page 49. They may not match the menu on your phone, depending on the services supported by your SIM card.

Example: Accessing the **Language** menu

1. Press the **Menu** soft key.
2. Press the **9** key for **Settings**.
3. Press the **2** key for **Phone settings**.
4. Press the **1** key for **Language**.

   The available languages display.

List of menu functions

The following list shows the menu structure and indicates the number assigned to each option and the page where you can find a description of each feature.

1. Call records (see page 54)

- 1.1 Current contacts
- 1.2 Missed calls
- 1.3 Dialled calls
- 1.4 Received calls
- 1.5 Delete all
- 1.6 Call time
  - 1.6.1 Last call time
  - 1.6.2 Total sent
  - 1.6.3 Total received
  - 1.6.4 Reset timers
- 1.7 Call costs*
  - 1.7.1 Last call cost
  - 1.7.2 Total cost
  - 1.7.3 Max cost
  - 1.7.4 Reset counters
  - 1.7.5 Set max cost
  - 1.7.6 Price/Unit

2. Phonebook (see page 58)

- 2.1 Contact list
- 2.2 Add new contact
- 2.3 Group
- 2.4 Speed dial
- 2.5 My name card
- 2.6 Own number
- 2.7 Management
  - 2.7.1 Default saving
  - 2.7.2 Copy all to phone
  - 2.7.3 Delete all
  - 2.7.4 Memory status
- 2.8 Service number*
- 2.9 Information*

* Shows only if supported by your SIM card.

3. Applications (see page 69)

- 3.1 Java world
  - 3.1.1 Downloads
  - 3.1.2 Settings
  - 3.1.3 Memory status
- 3.2 MP3 player
- 3.3 Voice recorder
- 3.4 World time
- 3.5 Alarm
- 3.6 PIN sync
- 3.7 Calculator
- 3.8 Converter
  - 3.8.1 Currency
  - 3.8.2 Length
  - 3.8.3 Weight
  - 3.8.4 Volume
  - 3.8.5 Area
  - 3.8.6 Temperature
- 3.9 Timer
- 3.10 Stopwatch

4. Browser (see page 86)

- 4.1 Home
- 4.2 Favorite
- 4.3 http://
- 4.4 WAP profile
- 4.5 Clear cache

5. Messages (see page 90)

5.1 Create message
- 5.1.1 Text message
- 5.1.2 Multimedia message
- 5.1.3 Email

5.2 My messages
- 5.2.1 Inbox
- 5.2.2 Drafts
- 5.2.3 Outbox
- 5.2.4 Sent box
- 5.2.5 Email box
- 5.2.6 My folders

5.3 Templates

5.4 Delete all

5.5 Settings
- 5.2.1 Text message
- 5.2.2 Multimedia message
- 5.2.3 E-mail
- 5.2.4 Push message
- 5.2.5 Broadcast

5.6 Memory status

6. File manager (see page 118)

6.1 Images

6.2 Videos

6.3 Music

6.4 Sounds

6.5 Other files

6.6 Memory status

7. Organiser (see page 126)

8. Camera (see page 133)

8.1 Take a photo

8.2 Record video

8.3 Go to photos

8.4 Go to video clips

9. Settings (see page 145)

- 9.1 Time & Date
- 9.2 Phone settings
  - 9.2.1 Language
  - 9.2.2 Greeting message
  - 9.2.3 Short cut
  - 9.2.4 Extra settings
- 9.3 Display settings
  - 9.3.1 Idle
  - 9.3.2 Skin
  - 9.3.3 LCD brightness
  - 9.3.4 Back light
- 9.4 Sound settings
  - 9.4.1 Incoming call
  - 9.4.2 Keypad tone
  - 9.4.3 Message tone
  - 9.4.4 Power on/off
  - 9.4.5 Folder tone
  - 9.4.6 Quiet mode
  - 9.4.7 Extra tones
- 9.5 Network services
  - 9.5.1 Call diverting
  - 9.5.2 Call barring
  - 9.5.3 Call waiting
  - 9.5.4 Network selection
  - 9.5.5 Caller ID
  - 9.5.6 Voice mail server
  - 9.5.7 Closed user group
  - 9.5.8 Band selection
- 9.6 Bluetooth
  - 9.6.1 Activation
  - 9.6.2 My devices
  - 9.6.3 My phone's visibility
  - 9.6.4 My phone's name
  - 9.6.5 Secure mode
  - 9.6.6 Bluetooth services

9. Settings (continued)

9.7 Security
- 9.7.1 PIN check
- 9.7.2 Change PIN
- 9.7.3 Phone lock
- 9.7.4 Change password
- 9.7.5 Privacy
- 9.7.6 SIM lock
- 9.7.7 FDN mode*
- 9.7.8 Change PIN2*

9.8 Connect settings

9.9 Reset settings

* Shows only if supported by your SIM card.

Call records

In this menu, you can view the:

- calls you have dialled, received, or missed.
- length of your calls.
- cost of your calls, depending on your SIM card.

Note: You can access the call records of all 3 types of calls by pressing the key in Idle mode.

Current contacts *(Menu 1.1)*

In this menu, you can view the most recent calls used, in the order you've dialled, received, or missed them.

The numbers or names, if saved in your phone, display.

To	Press the
select a call type	Left or Right key.
scroll through the list	Up or Down key.
view details of a call	*i* key.
access the options	**Option** soft key. For details, see the next page.
dial a number	key.

On the call list, press the **Options** soft key to access the following options:

Details: shows details about the call.

Save to contacts: allows you to save the number in Phonebook. For further details, see page 60.

Send message: allows you to send an SMS or MMS message to the number. For further details, see page 91.

Delete: allows you to delete the call record or all records.

Missed calls *(Menu 1.2)*

This menu lets you view the most recent calls you have received, but did not answer.

For further details, see “Current contacts (Menu 1.1)” on page 54.

Dialled calls *(Menu 1.3)*

This menu lets you view the most recent calls you have dialled.

For further details, see “Current contacts (Menu 1.1)” on page 54.

Received calls *(Menu 1.4)*

This menu lets you view the most recent calls you have received.

For further details, see “Current contacts (Menu 1.1)” on page 54.

Delete all *(Menu 1.5)*

This menu allows you to delete all of the records in each call type separately. You can also delete all of your call records at one time.

1. Select a call type and press the *i* key to place check mark.

   Repeat this to select more types.

2. Press the **Delete** soft key to delete the marked records.

3. Press the **OK** soft key to confirm the deletion.

Call time *(Menu 1.6)*

This menu lets you view the time log for calls made and received.

Note: The actual time invoiced by your service provider may vary, depending on network features, rounding-off for billing purposes, and so on.

The following options are available:

Last call time: shows the length of the last call.

Total sent: shows the total length of all calls you have made since the timer was last reset.

Total received: shows the total length of all calls you have received since the timer was last reset.

Reset timers: allows you to reset the call timers.

Call cost *(Menu 1.7)*

This network feature lets you view the cost of calls. This menu may not be available, depending on your SIM card.

Note: This feature is not intended to be used for billing purposes.

The following options are available:

Last call cost: shows the cost of the last call you made.

Total cost: shows the total cost of all calls you have made since the cost counter was last reset. If the total cost exceeds the maximum cost set in the **Set max cost** option, you can no longer make any calls until you reset the counter.

Max cost: shows the maximum cost set in the **Set max cost** option.

Reset counters: allows you to reset the cost counter.

Set max cost: allows you to enter the maximum cost authorised for your calls.

Price / Unit: allows you to view and set the cost of one unit; this price per unit is applied when calculating the cost of your calls.

Phonebook

You can store phone numbers and their corresponding names in both your SIM card and your phone's memory. They are physically separate but are used as a single entity, called Phonebook.

Note: Depending on your particular SIM card, the maximum number of phone numbers the SIM card can store may differ.

Contact list *(Menu 2.1)*

In this menu, you can search for numbers in Phonebook by entering names.

Note: You can quickly enter this menu by pressing the **Name** soft key in Idle mode.

Finding a contact

1. Enter the first few letters of the name that you want to find or scroll to a name by pressing the Up or Down key.

   The names in Phonebook are listed, starting with the one that most closely matches your input.

2.

To	Press the
view the highlighted name	*i* key.
select a different name	Up or Down key.
look for a name starting with a different letter	key labelled with the letter you want.

3. Once you have found the number, press the key to dial.

   Alternatively, press the **Options** soft key to access the contact options; for further details, see the next section.

On the contact list, press the **Options** soft key to access the following options:

View: shows information about the selected contact.

Send message: allows you to send a message to the contact. For details, see page 91.

Add new contact: allows you to add a new contact to Phonebook.

Delete: allows you to delete the selected contact or all contacts.

Using contact options

While viewing any name in Phonebook, press the **Options** soft key to access the following options for the name.

Note: Available options may vary, depending on the field you selected.

Edit: allows you to edit the contact information.

Send message: allows you to send a message to the contact.

Copy: allows you to copy the number to another memory location.

Send via: allows you send the contact as a name card to other people by using the messaging feature or the Bluetooth feature.

Delete: allows you to delete the selected contact from Phonebook.

Add new contact *(Menu 2.2)*

This menu allows you to add a new entry into Phonebook. In the phone's memory, a name can contain up to 5 numbers in different categories: Mobile, Home, Office, Fax, and Other. You can save only one number in a SIM card entry.

Note: You can select a default memory location in which you want to save the number. For further details, see page 66.

Storing a number in the phone's memory

1. When **Phone** highlights, press the **Select** soft key.

2. Enter information about the contact. The following input fields are available:

   - **First name**/**Last name**: Enter the contact's name. For further details about how to enter characters, see page 33.
   - **Mobile**/**Home**/**Office**/**Fax**/**Other**: Add a number for any category.
   - **E-mail**: Enter an e-mail address.
   - **Graphic ID**: Press the *i* key and assign an image as a caller ID image for the contact.
   - **Ringer ID**: Press the *i* key and select an unique ringer melody for the contact.
   - **Group**: Press the *i* key and select one of the default relation groups, where the contact is included. For further details about creating a group, see page xx.
   - **Memo**: Add a memo about the person.

3. When you have finished entering the contact information, press the **Save** soft key.

4.

To	Press the
access the options	**Options** soft key. For further details, see page 59.
dial a number	Down key to scroll to a number and press the key.

Storing a number on the SIM card

Note: When you change phones, any numbers stored on your SIM card are automatically available with the new phone, whereas any numbers stored in the phone's memory will need to be reentered.

1. Select **SIM** and press the **Select** soft key.

2. Enter the contact information. The following fields are available:

   - **Name**: enter a contact's name.
   - **Phone number**: enter a phone number.
   - **Location**: enter a location number.

3.

To	Press the
access the options	**Options** soft key. For further details, see page 59.
dial the number	key.

Group *(Menu 2.3)*

In this menu, you can create and manage caller groups to organise your Phonebook entries.

Creating a new caller group

1. On the Group screen, press the **Options** soft key.
2. Select **Add** and press the **Select** soft key.
3. Enter the group information. The following fields are available:
   - **Name**: enter a group name.
   - **Graphic ID**: Press the *i* key and assign an image to be displayed when a call comes in from a member of the group.
   - **Ringer ID**: Press the *i* key and select a ringer melody to be played when a call comes in from a member of the group.
4. Press the **Save** soft key.

   The new group is added to the Group list and you can specify a group when storing a contact.

Viewing members in a group

To view the names in a caller group, scroll to the group and press the *i* key. The list of the members in the group appears.

Press the **Options** soft key to access the following options:

View: shows you the contact information of a member.

Add: allows you to add a member to the group.

Delete: allows you to delete a member from the group.

Managing caller groups

You can change the properties of a group or delete a group.

On the group list, press the **Options** soft key to access the following options:

View: shows the list of the members in the group.

Add: allows you to add a new group.

Edit: allows you to change the properties of the currently selected group.

Send message: allow you to send a message to all of the members of the group.

Delete: allows you to delete the selected group or all groups. Note that the members in the group are not deleted from Phonebook.

Speed dial *(Menu 2.4)*

You can assign up to 8 of your most frequently used phone numbers from your Phonebook list to the number keys (**2** to **9**), and then dial them easily whenever you want, simply by pressing and holding the associated number key.

Setting up speed dial entries

1. Select the key to which you wish to assign the speed dialling number, from the **2** to **9** keys, and press the *i* key.

   Note: Memory location 1 is reserved for your Voice Mail server number.

2. Enter the name you want, or scroll to it using the Up or Down key.

3. Press the **Select** soft key.

4. If there are more one than number for the name, scroll to a number and press the **Select** soft key.

When you select a key on the Speed dial screen, you can access the following options by pressing the **Options** soft key:

View: shows the number assigned to the key.

Add: allows you to assign a number to the key. This option shows for an empty key.

Change: allows you to assign a different number to the key. This option shows for an occupied key.

Remove: clears the setting so that no number is assigned to the key.

Speed dialling

To quickly dial the numbers assigned to the **2** to **9** keys, press and hold the appropriate key in Idle mode.

My name card *(Menu 2.5)*

In this menu, you can create a name card for yourself. After creating a name card, you can send it to other people via several different routes.

Create your name card as you would for saving a number in Phonebook. For further details, see page 60.

After saving a name card, press the **Options** soft key to access the following options:

Edit: allows you to edit your name card.

Send via: allows you to send your name card to other people by using the messaging feature or the Bluetooth feature. For further details, see page xx or page xx.

Exchange namecard: allows you to exchange your name card with another person's name card via the Bluetooth feature. For further details, see page 161.

Remove: allows you to clear your name card.

Own number *(Menu 2.6)*

You can:

- assign a name to each of your own phone numbers registered on your SIM card.
- delete the names and numbers.

Any changes made here do not in any way affect the actual subscriber numbers on your SIM card.

Management *(Menu 2.7)*

In this menu, you can:

- select the default memory location to which numbers are saved.
- copy all of the Phonebook entries in your SIM card to your phone's memory.
- delete all of the entries in Phonebook.
- check the memory status of Phonebook.

Default saving *(Menu 2.7.1)*

You can select a default memory location to which you want names and numbers saved.

The following options are available:

Phone: the phone saves contacts in the phone's memory.

SIM: the phone saves contacts on the SIM card.

Ask on saving: the phone displays the memory options to allow you to select a memory location.

Copy all to phone *(Menu 2.7.2)*

You can copy all of the contacts stored on the SIM card to the phone's memory.

Delete all *(Menu 2.7.3)*

You can delete all of the contacts from your phone's memory, your SIM card, or both.

1. Select the memory location you want to empty and press the *i* key to place a check mark.
2. Press the **Delete** soft key to delete the contacts in the selected memory location(s).
3. Enter the phone password and press the **OK** soft key.

   Note: The password is preset to "00000000" at the factory. To change this password, see page 165.

4. Press the **Yes** soft key to confirm the deletion.

Memory status *(Menu 2.7.4)*

The menu shows you the number of contacts you have stored and the total number of the contacts you can store in the phone's memory and on the SIM card.

Service number *(Menu 2.8)*

You can view the list of Service Dialling Numbers (SDN) assigned by your service provider. These numbers include emergency numbers, directory enquiries, and voice mail numbers.

Note: This menu is available only when your SIM card supports Service Dialling Numbers.

1. Scroll through the numbers by pressing the Up or Down key.
2. Press the **Dial** soft key to dial the number displayed.

Information *(Menu 2.9)*

??

Applications

In this menu, you can:

- enjoy various Java games.
- play music files using your phone as an MP3 player.
- record a voice memo.
- set your time zone and check world time.
- set an alarm so that the phone alerts you at a specific time.
- use the phone as a calculator, convertor, timer, or stopwatch.

Java world *(Menu 3.1)*

You can enjoy Java games. You have games pre-installed on your phone and download more games from the wireless Web.

Downloads *(Menu 3.1.1)*

When you access the **Downloads** menu, the list of default games appears. Once you have downloaded games, they are added to this list.

Note: Java services may not be available, depending on your service provider.

Playing a game

1. From the game list, select a game and press the *i* key.
2. Press the left soft key. For some games, you can press any key.
3. Select **New Game** or **Start** and press the *i* key.
4. Follow instructions on the screen to start the game.

Viewing properties of a game

1. From the game list, select a game and press the **Options** soft key.
2. Select **Properties** and press the **Select** soft key.
3. Press the Up or Down key to scroll through the screen.

   You can move to the properties screen of another game by pressing the Left or Right key.
4. Press the **OK** soft key to exit.

Deleting a game

Note: Default games cannot be deleted.

1. From the game list, select a game and press the **Options** soft key.
2. Select **Delete** and press the **Select** soft key.
3. Choose **Selected** to delete the currently selected game, or **All** to delete all of downloaded games.
4. Press the **Yes** soft key to confirm the deletion.

Settings *(Menu 3.1.2)*

In this menu, you can select a connection profile for accessing Java services.

Note: To change the properties of a connection profile, see page 166.

Memory status *(Menu 3.1.3)*

In this menu, you can view the amount of memory available and memory currently in use for Java games and the number of games you have downloaded.

MP3 player *(Menu 3.2)*

You can enjoy music using your phone.

Before using the MP3 player, you first need to save MP3 music files in your phone's memory.

Downloading and receiving music files

You can download or receive music files using the following methods:

- from the wireless web
- from a computer through the EasyStudio II programme
- from MMS messages or e-mails
- Via Bluetooth; for further details, see page 161.

The downloaded or received files are stored in the **Music** folder. See page 121.

Creating the play list

1. On the MP3 player screen, press the **Options** soft key.
2. Select **Add list** and press the **Select** soft key.
3. Select **Add all** to add all music files to the play list and press the **Select** soft key. Skip to step 5.

   Select **Add a file** to add a music file and press the **Select** soft key. Continue to the next step.
4. Select a file from the music list and press the **Select** soft key.
5. Press the **Options** soft key and select **Add to playlist**. Repeat from step 3.
6. When the play list is complete, press the **Back** soft key to go back to the MP3 player screen.

Playing MP3 files

Once you have created the play list, press the *i* key to play music on the MP3 player screen.

You can use the following keys to control the MP3 player:

Key	Function
i	pauses or resume playback.
Left	returns to the previous file.
Right	skips to the next file.
Down	stops playback.
Up	opens the play list.

Key	Function
▲/▼	adjusts the volume level.
1	changes the equalizer mode.
2	changes the skin colour.
3	turns the shuffle mode on or off.
4	turns the 3D sound on or off.
5	changes the repeat mode.

Note: Closing the phone doesn't interrupt playback. To control the MP3 player with the phone closed, see page 75.

Using the MP3 player options

On the MP3 player screen, press the **Options** soft key to access the following options:

Note: Depending on the playback status, paused, stopped, or started, available options vary.

Play: plays the music.

Pause: pause playback.

Open playlist: opens the play list.

Go to music: opens the music list.

Send via: allows you to send the current music file to other people by using the messaging feature or Bluetooth feature.

Set as: sets the current music file as your call ringer or ID for a Phonebook entry.

Activate key: ??

Remove from playlist: deletes the current file from the play list.

Settings: allows you to customise the default settings for the Media player.

- **Repeat mode**: allows you to select a repeat mode.
- **Shuffle**: allows you to turn the shuffle mode on or off.
- **Visualization**: allows you to select a music genre for the equalizer.
- **3D sound**: allows you to turns the 3D sound on or off.
- **MP3 skin**: allows you to select a skin colour of the MP3 player screen.
- **Volume**: allows you to select a volume level.

Properties: shows the properties of the current music file.

Key management: shows the help information for using the keys in the Media player.

Managing the play list

On the MP3 player screen, press the Up key to open the play list.

Press the **Options** soft key to access the following options:

Play: plays the currently selected music file.

Add to playlist: allows you to add more music files to the play list.

Change order: allows you to change the order of the selected file.

Remove: deletes the currently selected file or all files from the play list.

Properties: shows the properties of the currently selected file.

Playing music with the phone closed

You can enjoy music with the phone closed. Use the following keys to control the MP3 player:

Key	Function
►/II	launches or close the Media player when held down. starts playing music and pause playback.
I◄◄	returns to the beginning of the file or the previous file.
►►I	skips to the next file.
▲/▼	adjusts the volume level.

Voice recorder *(Menu 3.3)*

You can record voice memos. After recording, you can send the memo to other people using various sending options. You can record voice memos of up to 1 hour in duration.

Recording a voice memo

1. To start recording, press the *i* key.
2. Record a memo by speaking into the microphone.

   During the recording:

To	Press the
pause	**Pause** soft key.
resume	**Record** soft key.
adjust the volume	Volume keys.

3. When you have finished, press the Down key to stop and save the memo.

   If the recording time expires, the phone will automatically stop and save the memo.

Using voice memo options

After recording a voice memo, you can access the following options by pressing the **Options** soft key:

Play: plays back your voice memo.

Go to voice list: opens the voice memo list.

Send via: allows you to send the memo by using the messaging feature or Bluetooth feature.

Delete: allows you to delete the voice memo.

Rename: allows you to change the name of the voice memo.

Share for bluetooth: ??

Protection: locks the voice memo to protect it from being deleted.

Properties: shows you the properties of the voice memo.

Using the voice recorder options

On the Voice record screen, press the **Options** soft key to access the following options:

Record: begins recording a new voice memo.

Go to voice list: opens the voice memo list.

Settings: allows you to change the default settings for recording a voice memo. To change settings, press the Left or Right key. The following options are available:

- **Recording time**: allows you to select a maximum recording time.
- **Equalize value**: allows you to change the equalizer image on the Voice recorder screen.
- **Volume**: allows you to select a volume level for recording voice memos.

Playing a voice memo

1. On the Voice record screen, press the **Options** soft key.
2. Select the **Go to voice list** option and press the **Select** soft key.
3. Scroll to a voice memo and press the *i* key.

   During playback:

To	Press the
pause	**Pause** soft key.
resume	**Play** soft key.
move backward	Left key.
move forward	Right key.
adjust the volume	Volume keys.
switch to Record mode	Up key.

4. To stop, press the Down key.

World time *(Menu 3.4)*

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

Viewing world time

Press the Left or Right key to scroll through the world map.

The screen shows the selected city name, the time difference to your local time zone and current time and date.

Setting your local time zone

1. Select the city corresponding to your home time zone by pressing the Left or Right key.
2. Press the **Set** soft key.
3. Select **Save** and press the **Select** soft key.

Applying Daylight Savings Time (DST)

1. On the world map, press the **Set** soft key.
2. Select **Set daylight saving time** and press the **Select** soft key.
3. Scroll to the time zone to which you want to apply the setting and press the *i* key to place a check mark.

   Repeat this step to apply DST to more time zones.
4. Press the **Save** soft key.

Alarm *(Menu 3.5)*

This menu allows you to set an alarm to ring at a specific time.

Setting an alarm

1. Choose a type of alarm, **Morning call**, **Alarm1**, or **Alarm2** and press the **Select** soft key.
2. Select **On** in the Alarm field by pressing the Left or Right key and press the Down key.
3. Enter the time for the alarm to sound and press the Down key.

   Note: Your phone is preset to a 24-hour format. To change the format, see page 145.

4. If applicable, select **AM** or **PM** and press the Down key.
5. Select a repeat option and press the Down key.
6. Press the *i* key in the Alarm tone field.
7. Select a sound category and press the **Select** soft key.
8. Select the alarm melody you want and press the **Select** soft key.
9. Press the **Save** soft key.

When the time for an alarm comes:

- Press the **Confirm** soft key to stop the alarm.
- Press the **Snooze** soft key to let the alarm sound after 5 minutes.

Activating the autopower alarm

You can set your alarms to ring at the specified time, even if the phone is off.

On the Alarm screen, scroll to **Autopower** and press the **Select** soft key.

If the time for an alarm comes when the phone is off, the phone automatically switches on and rings the alarm.

PIM Sync *(Menu 3.6)*

You can synchronize personal information stored in Phonebook, Calendar, and To Do List with corresponding PC applications by using the EasyStudio II program supplied with your phone.

Creating a synchronisation profile

To synchronise your phone with other devices, you need to create a synchronisation profile.

1. Press the **OK** soft key to confirm the creating.
2. With or without a name for the profile, press the **Yes** soft key.
3. Set up the following information for the profile:
   - **Profile name**: allows you to enter the setting name.
   - **Sync category**: allows you to select the application(s) you want to synchronize. Select **All** to synchronise all of the items in each application.
   - **Sync Type**: allows you to select a synchronisation type.

- **Normal Sync**: the phone and PC/remote server exchange only newly added, changed, or deleted data.
- **Recovery Sync**: the phone sends all of its data to the PC and the PC sends only data that the phone does not contain.
- **Sync protocol**: allows you to select a connection method, **Serial**, **Bluetooth**, or **USB**.

4. Press the **Save** soft key.

Starting Synchronization

1. Make sure that your PC has the EasyStudio II program installed and the phone and the PC are connected by a USB or serial cable or an active Bluethooth connection.

2. From the PIM sync screen, select a profile and press the **Options** soft key.

3. Select **Start sync** and press the **Select** soft key. The synchronization begins.

Using the Synchronisation options

You can access the following options by pressing the **Options** soft key from the PIM sync screen:

Start sync: starts a synchronisation by the currently selected profile.

View result: shows the result of the last synchronisation.

New sync profile: allows you to create a new profile.

Edit sync profile: allows you to change the properties of the currently selected profile.

Delete: allows you to delete the currently selected profile or all profiles.

Calculator *(Menu 3.7)*

With this feature, you can use the phone as a calculator. The calculator provides basic arithmetic functions: addition, subtraction, multiplication, and division.

To use the calculator:

1. Enter the first number using the numeric keys.

   Notes:
   - To include a decimal point or brackets, press the left soft key.
   - To move the cursor, press the * or # key.

2. Enter the operation for your calculation by pressing the Navigation keys.

3. Enter the second number.

4. Repeat steps 2 to 3 as many times as required.

5. To view the result, press the *i* key.

Converter *(Menu 3.8)*

Using this menu, you can do currency and other conversions.

To use the converter:

1. Select the convertor type you want and press the **Select** soft key.

2. Select the original unit by pressing the Left or Right key and press the Down key.

3. Enter the value to be converted and press the Down key.

   Notes:
   - You can insert a decimal point by pressing the * key.
   - For a temperature conversion, you can change the sign of a number to above zero (+) or below zero (-) by pressing the # key.
   - For a currency conversion, you can view and change the currency rate. Press the **View rate** soft key.

4. Select the unit you want to change into by pressing the Left or Right key.

   The equivalent value for the amount you entered displays.

Timer *(Menu 3.9)*

In this menu, you can set a period of time for the phone to count down. The phone will alert you with an alarm when the specified period of time has expired.

To set the timer:

1. Press the **Set** soft key.
2. Enter the length of time you want to count down.
3. Press the **OK** soft key.
4. To start counting down, press the *i* key.

Even if you exit the Timer screen, the timer will continue running. When the specified time has expired, the phone informs you by playing a melody and displaying a text notification.

To stop the timer melody when it rings, press any key.

To stop the timer before the end, press the *i* key on the Timer screen.

Note: The timer uses power from the battery. Consequently the phone's operating time is reduced.

Stopwatch *(Menu 3.0)*

The stopwatch can be used to measure elapsed time.

Example: Running or swimming races

The precision of the stopwatch is one one-hundredth of a second. The maximum measurement time is 10 hours.

To use the stopwatch:

1. To start timing something, press the *i* key.
2. To check an interval, for example, one lap, press the *i* key.

   You can repeat this step for a total of 4 intervals.

To reset the stopwatch, press the **Reset** soft key.

Browser

Your phone is equipped with a WAP (Wireless Application Protocol) browser to allow you to access and navigate the Wireless Web using your phone.

Home *(Menu 4.1)*

Selecting this menu connects the phone to the network and loads the homepage of the Wireless Web service provider. You can also press the *i* key in Idle mode to launch the browser.

The contents of the WAP Browser startup homepage depends on your Wireless Web service provider.

Exiting the WAP browser

To exit the browser at any time, simply press the key.

Navigating the WAP browser

To	Press the
scroll through browser items	Up or Down key.
select a browser item	✓ soft key.
return to the previous page	**C** key.
return to the startup homepage	**C** key for more than 2 seconds.

Entering text in the WAP browser

When you are prompted to enter text, the currently active text input mode is indicated on the screen.

For further details about how to enter characters, see page 33.

Selecting and using browser menu options

Various menu options are available when you are using the WAP browser to navigate the Wireless Web.

To access a menu option:

1. Press the **Menu** soft key.
2. Select **Menu** and press the ✓ soft key.
3. Highlight a menu and press the ✓ soft key.
4. If necessary, select a secondary option and press the ✓ soft key to confirm.

Note: The menus may vary, depending on your version of the WAP browser.

The following options are available:

Back: goes to the previous page.

Home: takes you back at any time to the home page of the Wireless Web service provider.

Exit: exits the WAP browser.

Reload: reloads the current page.

Show URL: displays the URL address of the Web page to which you are currently connected. It also enables you to set the current site as the startup home page.

About...: provides you with information about your version of the WAP browser.

Favorite *(Menu 4.2)*

This menu allows you to store the URL addresses of up to 10 of your favourite websites.

To store a URL address:

1. Select an empty location and press the **Options** soft key.
2. Enter a name for the bookmark and press the **Enter** soft.
3. Enter the address and press the **Enter** soft key.

After saving an item, you can access the following options by pressing the **Options** soft key:

Go to URL: quickly takes you to the site.

Edit: allows you to edit the address and name of the bookmark.

Delete: allows you to delete the bookmark or all bookmarks.

http:// *(Menu 4.3)*

This menu allows you to manually enter the URL address of a website that you wish to access.

For further details about how to enter characters, see page 33.

After entering the URL address you want to access, press the **Enter** soft key to go to the site.

Clear cache *(Menu 4.5)*

Selecting this menu clears the information stored in the cache, the phone's temporary memory in which the most recently accessed Web pages are stored.

Messages

Using the **Messages** menu, you can use various message formats.

The following types of message services are available:

- Short Message Service (SMS): allows you to send and receive short text messages to and from other GSM mobile phones. In addition, your phone supports the Enhanced Messaging Service (EMS), which enables you to include simple pictures, melodies, and animated images in your messages.
- Multimedia Message Service (MMS): provides delivery of personal multimedia messages from phone to phone or from phone to e-mail. In addition to the familiar text content, multimedia messages can contain images, video clips, audio clips, and combinations of these things.
- E-mail: allows you to send and receive e-mails directly from your phone.
- WAP push: allows you to receive messages from the WAP server.
- Voicemail: gives you the way to access your voice messages stored on the service provider's voicemail server.
- Cell broadcast (CB): allows you to receive text messages on various topics, such as the weather or traffic.

Create new message *(Menu 5.1)*

Using this menu, you can create and send an SMS MMS, or e-mail message.

Text message *(Menu 5.1.1)*

In this menu, you can write and send SMS messages.

Creating a simple text message

1. Create your message.

   You can create a message using standard Alphabet characters or special Unicode characters, depending on the setting in the **Character support** menu; see page 111.

   Notes:
   - For further details about entering characters, see page 22.
   - You can enter up to 918 standard Alphabet characters in your message. When you enter text using Unicode characters, the maximum number of characters in a message is reduced by approximately half.

2. When you finish entering the message, press the **Options** soft key.

3. Select **Send and save** or **Send only** and press the **Select** soft key.

   Send and save first saves a copy of the message and then sends the message. You can read it in the **Outbox** folder.

Send only sends the message. The message is then deleted after sending.

You can save the message in the **Drafts** folder to send it later by selecting **Save to drafts**.

Note: For further details about other options, see page 92.

4. Enter a destination number.
5. If you want to send the message to more than one person, press the Down key and fill in another destination field.

   Repeat this to add more phone numbers. You can enter up to 10 numbers.

   Note: You will be billed for each phone number.

6. When you have finished, press the *i* key.
7. Press the **OK** soft key to confirm sending.

Using SMS content options

While creating an SMS message, press the **Options** soft key to access the following options:

Insert: allows you to add a text template, contact from Phonebook, or bookmark to the message text.

Add picture: allows you to add a picture.

Add animation: allows you to add an animated image.

Add melody: allows you to add a melody.

Attach: allows you to attach a contact from Phonebook as a name card format and an event item from the organiser as a VCS file format.

Text style: allows you to format the text. The text attributes can combined.

Language select: allows you to select a language to be used in T9 input mode.

Input method: allows you to change the text input mode.

Creating a long text message

When you write a text message, the phone automatically splits it into several messages if your message exceeds the maximum number of characters allowed for sending. The number of split messages to be sent is shown each time your message is split. Depending on your service provider, the maximum number of characters may vary.

Multimedia message *(Menu 5.1.2)*

In this menu, you can create a new MMS message.

Creating and sending a multimedia message

1. When **Subject** highlights, press the *i* key.
2. Enter the subject of your message and press the **OK** soft key.

   For further details about how to enter characters, see page 33.
3. Press the Down key to move to the Picture&Video field, and press the *i* key.

4. Add a photo or video to the message by using the following options:
   - **Add image**: allows you to add one of the images stored in the phone's memory or take and add a new photo. For details about the Camera feature, see page 133.
   - **Add videos**: allows you to add one of video clips stored in the phone's memory or record a new video clip.

Note: When you add a video clip to a message, you are unable to add a sound clip to the message.

5. Press the Down key to move to the Sound field and press the *i* key.

6. Select **Add sound** and add a sound clip by selecting one of sounds stored in the phone's memory or record and add a new voice memo.

   For details about the voice recorder feature, see page 75.

7. Press the Down key to move to the Message field and press the *i* key.

8. Enter the message text and press the *i* key.

9. Select **Done** and press the **Select** soft key.

10. Press the **Options** soft key, choose **Send** and press the **Select** soft key.

11. Enter a destination number or e-mail address.

12. If you want to send the message to more than one person, press the Down key and fill in another destination field.

    Repeat this to add more destinations. You can enter up to 20 destinations.

Note: You will be billed for each phone number or e-mail address.

13. When you are finished, press the **Options** soft key.

14. Select **Send** and press the **Select** soft key.

Using MMS content options

While creating an MMS message, if you want to change any of added items, press the Up or Down key to highlight a field and press the **Options** soft key.

Note: Available options are different, depending on whether the field you select on the message screen is the Subject, Picture & Video, Sound, or Message field.

The following options are available:

Add: allows you to add a subject of your message or message text.

Edit: allows you to edit the subject of your message or message text.

Add image/sound/video: allows you to add an image, sound clip, or video clip.

Change image/sound/video: allows you to exchange the added item for another.

Preview: shows the message you created.

Send: allows you to send the message.

Save to: saves the message to the **Drafts** folder or one of folders you have created.

Language select: allows you to select a language to be used in T9 input mode.

Input method: allows you to change the text input mode.

Add page: allows you to add more pages. You can move to each page by pressing the Left or Right key on the message screen.

Delete page: allows you to delete the added page.

Edit (page??): allows you to change the duration of page display or to move the page forward.

Attach: allows you to attach a contact in Phonebook as a name card format or an item in the organiser as a CVS file format.

Remove subject/media/sound/message: removes the added item from the message.

E-mail *(Menu 5.3.1)*

In this menu, you can create and send a new e-mail.

Notes:
- To send an e-mail, you need to select an appropriate e-mail profile and set up an e-mail account. For details, see page xx.
- When creating a message, the total size of attachments is limited to approximately 210KB. Because the message will be encrypted, the subsequent size will reach the allowed maximum size (300KB).

Creating and sending an e-mail

1. When **Subject** highlights, press the *i* key.
2. When **Create** highlights, press the *i* key.

3. Enter the subject of your e-mail and press the *i* key.

   For further details about entering characters, see page 33.

4. Select **Done** and press the *i* key.

5. Press the Down key to move to the Message field and press the *i* key.

6. Select **Add** and press the *i* key.

7. Enter the e-mail text and press the *i* key.

8. Select **Done** and press the *i* key.

9. Press the Down key to move to the File attach field and press the *i* key.

10. Attach files by selecting the following options:

    - **Add images**: allows you to add one of images stored in the phone's memory or take and add a new photo.
    - **Add video**: allows you to add one of video clips stored in the phone's memory or record and add a new video clip.
    - **Add sounds**: allows you to add one of sound clips stored in the phone's memory or record and add a new voice memo.
    - **Other files**: allows you to add ??
    - **Attach**: allows you to add a text template, an entry from Phonebook, or a bookmark.

11. When you have finished creating the e-mail, press the **Options** soft key.

12. Select **Send only** or **Save and send** and press the **Select** soft key.

    Send only sends the e-mail. The e-mail is then deleted after sending.

    Save and send first saves a copy of e-mail and then sends the e-mail. You can read it in the **Outbox** folder.

13. Enter an e-mail address.

14. If you want to send the message to more than one person, press the Down key and fill in another destination field.

    Repeat this to more destinations. You can enter up to 15 e-mail addresses.

    Note: You will be billed for each e-mail address.

15. When you have finished, press the **Options** soft key.

16. Select **Send** and press the **Select** soft key.

Using e-mail content options

While creating an e-mail, if you want to change added items, press the Up or Down key to highlight a field or an attached file and press the **Options** soft key.

Note: Available options are different, depending on whether the field you select on the message screen is the Subject, Message, or File attach, or attached file field.

The following options are available:

Add: allows you to add a subject, e-mail text, and media files.

Edit: allows you to edit the subject of your e-mail or e-mail text.

View: shows the attached file.

Send: allows you to send the e-mail.

Save to: saves the e-mail in the **Drafts** folder or one of folders you have created.

Remove subject/message: clears the subject of your e-mail or e-mail text.

Remove: deletes the selected attached file or all attached file.

Remove all attachments: deletes all attached files.

My messages *(Menu 5.2)*

In this menu, you can access messages you have received, sent, or saved.

Inbox *(Menu 5.2.1)*

The Inbox stores all messages you have received, except for e-mails.

Note: When you buy media content from the Internet, this content may be delivered to you in MMS messages. Save the items in the message to your phone's memory. You cannot forward these messages to other people or add the saved items to an MMS message.

Viewing a message at the time of its receipt

When a message has been received, the phone alerts you by:

- Displaying a message icon and text notification.
- Sounding a message tone, vibrating, or lighting, depending on the message alert setting.

To read a message immediately, press the **View** soft key. To read it later, press the **Exit** soft key.

For an MMS message, press the **Options** soft key and select **Retrieve**. The message is downloaded from the MMS server to the phone's memory.

For the options you can use while viewing a message, see page 101.

Viewing a message in Inbox

When you access the **Inbox** folder, a list of received messages appears. The icons on the left tells you types of messages:

- : SMS
- : MMS
- ?? : WAP push
- ?? : CB
- : OTA (SMS containing configuration for network services, from your service provider)
- : Delivery report for your sent messages

To open a message:

1. Select a message from the list and press the *i* key to read its content.

Alternatively, you can access the following options by pressing the **Options** soft key:

- **View**: opens a message.
- **Retrieve**: retrieves an MMS message from the server.
- **Delete**: deletes a message or all messages.
- **Move to my folder**: move a message to one of folders you have created.
- **Sort by**: changes the sort order of the message list.
- **Protection**: locks a message to keep it from being deleted.
- **Properties**: shows you information of an MMS message.

2. Press the Up or Down key to scroll through the content.

3. Press the * or # key to scroll to the previous or next message.

Using message options

While viewing a message, press the **Options** soft key to access the following options:

SMS messages

- **Reply via**: allows you to a reply to the sender by SMS or MMS.
- **Forward**: allows you to forward the message to other destinations.
- **Delete**: deletes the message.
- **Move to phone/SIM**: moves the message from the SIM card to the phone's memory or vice versa.

- **Cut address**: extracts URL, e-mail addresses, or phone numbers from the message.
- **Cut media/Attach**: extracts media items from the message to save them to your phone's memory.
- **Protection**: locks the message to keep it from being deleted.

MMS messages

- **Reply via SMS**: allows you to a reply to the sender by SMS.
- **Reply via MMS to**: allows you to a reply to the sender or all other recipients including the sender by MMS.
- **Forward**: allows you to forward the message to other destinations.
- **Delete**: deletes the message.
- **Cut address**: extracts URL, e-mail addresses, or phone numbers from the message text.
- **Cut media/Attach**: extracts media items from the message to save them to your phone's memory.
- **Protection**: locks the message to keep it from being deleted.
- **Properties**: show the properties of the message.

OTA message

- **Install**: applies the configuration specified in the message to your phone.
- **Cut address**: extracts URL, e-mail addresses, or phone numbers from the message.
- **Delete**: deletes the message.

Delivery report message

- **Delete**: deletes the message.
- **Cut address**: extracts URL, e-mail addresses, or phone numbers from the message text.
- **Protection**: locks the message to keep it from being deleted.

WAP push message

- **Go to URL**: connects to the URL specified in the message.
- **Delete**: deletes the message.
- **Cut address**: extracts URL, e-mail addresses, or phone numbers from the message.
- **Protection**: locks the message to keep it from being deleted.

CB message

- **Save**: saves the message to the phone's memory.
- **Delete**: deletes the message.
- **Cut address**: extracts URL, e-mail addresses, or phone numbers from the message.

Drafts *(Menu 5.2.2)*

After creating a message, you can store it in this message folder to be sent at a later time. The phone also stores messages that it fails to send.

From the list of draft messages, select a message and press the *i* key. The phone opens the message in Edit mode.

Press the **Options** soft key to access the following options:

Edit: allows you to change and send the message.

Delete: deletes a message or all messages.

Move to my folder: move a message to one of folders you have created.

Sort by: changes the sort order of the message.

Protection: locks a message to keep it from being deleted.

Properties: shows you information of an MMS message.

Outbox *(Menu 5.2.3)*

This message box is used to store messages that the phone is attempting to send or failed to send.

Viewing a message

When you access this menu, a list of messages in the box displays. In addition to the type icons, the following icons tells you the message status:

- : Message the phone is sending
- : Message the phone has failed to send

To open a message:

1. Select a message from the list and press the *i* key to read the message content.

   Alternatively, you can access the following options by pressing the **Options** soft key:

   - **View**: opens a message.
   - **Delete**: deletes a message or all messages.

- **Move to my folder**: move a message to one of folders you have created.
- **Sort by**: changes the sort order of the message.
- **Protection**: locks a message to keep it from being deleted.
- **Properties**: shows you information of an MMS message.

2. Press the Up or Down key to scroll through the content.

3. Press the * or # key to scroll to the previous or next message.

Using message options

While reading a message, you can access the following options by pressing the **Options** soft key:

Send/**Send again**: allows you to send/resend the message.

Cancel sending: cancels sending the message.

Delete: allows you to delete the message.

Cut address: extracts URL, e-mail addresses, or phone numbers from the message.

Protection: locks the message to keep it from being deleted.

Properties: shows information of the message.

Sent *(Menu 5.2.4)*

This message folder is used to store messages that the phone has sent successfully.

Using message options

While reading a message, you can ac.cess the following options by pressing the **Options** soft key:

Forward: allows you to forward the message to other destinations.

Delete: allows you to delete the message.

Cut address: extracts URL, e-mail addresses, or phone numbers from the message.

Protection: locks the message to keep it from being deleted.

Properties: shows you information of the message.

Email box *(Menu 5.2.5)*

This menu allows you to check the e-mail server for new e-mails and review the e-mail messages you have received.

Note: To receive e-mails, you need to select an appropriate e-mail profile and set up an e-mail account.

Retrieving an e-mail

1. Press the **Yes** soft key when **Check e-mail** highlights to retrieve e-mail headers from the server.

   Note: You can set the phone to retrieve headers only or whole e-mails including headers and bodies in the **Retrieve** option. For details, see page 114.

   The list of e-mail headers or entire e-mails you have received displays.

2. Press the Up or Down key to scroll to an e-mail header or entire e-mail.

   You can access the following options by pressing the **Options** soft key:

   - **Delete**: deletes the header.
   - **Cut address**: extract e-mail addresses, URLs, and phone numbers from the header.
   - **Protection**: locks the header to keep it from being deleted.
   - **Properties**: shows you information of the message.

3. Press the *i* key to open the header or e-mail.

4. Press the Up or Down key to scroll through the content.

   When you select an attached file, you can view or play the attached file in the e-mail.

Using e-mail options

Note: While you are retrieving e-mails from the e-mail server, some options are not available.

While viewing an e-mail message, press the **Options** soft key to access the following options:

Retrieve: allows you to retrieve the entire e-mail of the header.

Reply: allows you to send a reply to the sender or to all other recipients including the sender.

Forward: allows you to forward the e-mail to other destinations.

Save: allows you to save the attached file in your phone's memory.

Delete: allows you to delete the e-mail.

Add filtering list: allows you to add the sender's e-mail address to the filter list to reject e-mails from that address.

Cut address: extract e-mail addresses, URLs, and phone numbers from the e-mail.

Protection: locks the e-mail to keep it from being deleted.

Properties: shows you information of the e-mail.

My folder *(Menu 5.2.6)*

In this menu, you can create message folders to organise your messages.

Creating a folder

When you access the **My folder** menu, the phone prompts you to add a folder.

1. Press the **OK** soft key to confirm.
2. Enter the folder name and press the **OK** soft key.

Using folder options

After creating folders, you can access the following options by pressing the **Options** soft key from the folder list:

Open: opens a folder.

Add folder: allows you to add a new folder.

Rename folder: allows you to change the name of a folder.

Delete: deletes the selected folder or all folders.

Templates *(Menu 5.3)*

You can create templates for your most commonly used phrases, sentences, or messages. You can then retrieve and use them at will. You can change the templates at any time, or send one as a message immediately.

Creating a text template

1. Select an empty location or the message template you want and press the *i* key.
2. Enter the message you want.
3. Press the **OK** soft key.

Using template options

On the text template list, press the **Options** soft key to access the following options:

Edit: allows you to change an existing text template.

Send via: allows you to send a new message using the template.

Delete: allows you to delete the template.

Add new: allows you to add a new template.

Delete all *(Menu 5.4)*

You can delete the messages in each message folder one by one, or all at once. You can also delete all of your messages at one time.

1. Scroll to the message folder you want to empty and press the *i* key to place a check mark. Repeat this step to select more messages.

   To delete all of messages, select **All messages**.

2. Press the **Delete** soft key.

3. When the phone asks if you want to include protected messages, press the *i* key.

   If you don't want this, deselect the check box.

4. Press the **OK** soft key to confirm the deletion.

5. Press the **OK** soft key to confirm the deletion again.

Settings *(Menu 5.5)*

You can set up various options for using messaging services.

Text messages *(Menu 5.5.5)*

In this menu, you can set up default SMS message information.

Common settings: provides you with the following options:

- **Reply path**: allows the recipient of your message to send you a reply through your message centre, if your network supports this service.
- **Delivery report**: allows you to activate or deactivate the report function. When this function is activated, the network informs you whether or not your message has been delivered.
- **Character support**: allows you to select a character encoding type, either **GSM-alphabet**, **Unicode**, or **Auto**. If you select **Auto**, the phone automatically changes the encoding type from GSM-alphabet to Unicode when you enter a Unicode character.

  When you select **Unicode**, the maximum number of characters in a message is reduced by approximately half. If your recipient's phone does not support Unicode characters, he/she may not be able to read your message correctly. For details about Unicode characters, see page 192.

SMS profile: allows you to select a setting profile to be used for SMS.

Profile settings: allows you to set up the following properties in a profile.

- **Service centre**: allows you to store or change the number of your SMS centre. You must obtain this number from your service provider.
- **Default destination**: allows you to enter the default destination. It will display in the first field on the Destination list.
- **Default type**: allows you to set the default message type. The network can convert the messages into the selected format.
- **Validity period**: allows you to set the length of time your SMS messages are stored in the SMS centre while attempts are made to deliver them.
- **Setting name**: allows you to set a profile name.

Multimedia message *(Menu 5.5.2)*

You can change the default settings for sending or receiving multimedia messages.

Send settings: allows you to change the default settings for sending a message.

- **Delivery report**: the network informs you whether or not your message has been delivered.
- **Address hiding**: your phone number is not displayed on the recipient's phone.
- **Read reply**: your phone sends a request for a reply along with your message to the recipient.
- **Priority**: allows you to select the priority level of your messages.
- **Validity period**: allows you to select a length of time your messages are stored in the message centre after they are sent.

- **Delivery after**: allows you to select a time delay before messages are sent.

Receive settings: allows you to change the default settings for receiving a multimedia message.

- **Anonymous reject**: the phone rejects messages from anonymous senders.
- **Adverts allowed**: the phone accepts advertisement messages.
- **Information allowed**: the phone accepts information messages.
- **Personal allowed**: the phone accepts personal messages.
- **Report allowed**: the sender of an incoming message receives a delivery report from the network.
- **Home reception**: allows you to set whether or not your phone automatically retrieves new messages from the MMS server when you are in your home service area.
- **Roaming reception**: allows you to set whether or not your phone automatically retrieves new messages from the MMS server when you are roaming in another network.

MMS profiles: allows you to select a connection profile to be used for MMS.

E-mail *(Menu 5.3.6)*

You can change the default setting options for using the e-mail feature.

Send settings: allows you to change the default settings for sending an e-mail.

- **Delivery confirm**: the network informs you whether or not your e-mail has been delivered.

- **Read confirm**: your phone sends a request for a reply along with your e-mail to the recipient.
- **Priority**: you can select the priority level of your e-mail.
- **Include signature**: attaches your name, phone number, a simple memo, or tag line as a signature to your e-mail. Remaining options are available when you activate this option.
- **Edit name**: you can set the name in your signature.
- **Edit telephone number**: you can set the phone number in your signature.
- **Edit note**: you can set the tag line in your signature.

Receiving settings: allows you to change the default settings for receiving an e-mail.

- **Check interval**: allows you to select how often the phone automatically checks the server for incoming e-mail. If this option is set to **Not used**, you need to manually check the server by selecting **Check new mail** in the **E-mail box** folder.
- **Read reply**: allows you to set whether or not the phone sends a read-reply request to the sender.
- **Retrieve option**: you can select whether or not the phone retrieves headers only or whole e-mails including the headers and bodies.
- **Reject if over**: allows you to set the maximum message size for incoming e-mail. Your phone will reject e-mail which are over the specified size.
- **Leave a copy of messages the server**: the phone leaves copies of e-mails in the server after retrieving.

Block list: allows you to set up a filter list to rejects e-mails from the specified addresses or associated the specified subject.

Email account: allows you to set up e-mail accounts and select an account to be used.

- **Current account**: allows you to select one of the accounts.
- **Account setting**: allows you to configure up to 5 e-mail accounts using different e-mail servers. The following options are available for each account:

  Account name: enter a name for the selected account.

  User name: enter the name to be displayed in your outgoing messages as the sender's name.

  Email address: enter your e-mail address.

  User ID: enter your e-mail ID.

  Password: enter your e-mail password.

  SMTP server: enter the IP address or domain name of the server to be used for receiving messages. Your e-mail service provider can give you this information.

  SMTP port: enter the SMTP port number. Your e-mail service provider can give you this information.

  Protocol type: specify an e-mail protocol type for the incoming server, either **POP3** or **IMAP4**. Contact your e-mail service provider for more information.

  POP3 port: (For POP3) enter the POP3 port number.

APOP login: (For POP3) when this option is checked, you can connect to the server by using the APOP login scheme.

Include attachments: (For IMAP4) when this option is checked, you can receive attachments with e-mails from the server.

Max retrieve E-mail: (For IMAP4) set the number of headers you will retrieve from the server.

Secure connection: set whether or not you protect your data by using SSL (Secure Socket Layer).

Email profile: allows you to select a connection profile to be used for e-mail services.

Push messages *(Menu 5.5.4)*

You can change the settings for receiving WAP push messages from the wireless web server. The following options are available:

Receive: allows you to set whether or not your phone receives push messages.

Last name: allows you to enter the address of the sever from which you want receive push messages, when the **Receive** option is set to **SMS-C specific**.

Broadcast *(Menu 5.5.5)*

You can change the settings for receiving CB messages. The following options are available:

Receive: allows you to enable or disable the reception of CB messages.

Channel list: allows you to indicate the channels from which you wish to receive CB messages. Please contact your service provider for further details.

- **Select**: allows you to enable or disable channels.
- **Add channel**: allows you to add new channels.
- **Delete**: allows you to delete channels.
- **Edit**: allows you to change the channel ID number and name.

Language: allows you to select the preferred languages in which to display CB messages.

Memory status *(Menu 5.8)*

In this menu, you can view the memory status for SMS, MMS and e-mail.

The following options are available:

Text message: By pressing the Up or Down key, you can view the number of SMS messages you have stored and the total number of SMS messages you can store in each memory.

Multimedia message: By pressing the **Next** soft key, you can check the total amount of memory for MMS messages and the amount of memory currently in use in each message folder.

Email: By pressing the **Next** soft key, you can check the total amount of memory for e-mails and the amount of memory currently in use in each message folder.

File manager

File manager allows you to access and manage the media files in your phone's memory.

Images *(Menu 6.1)*

In this menu, you can view the photos you have taken and images downloaded from a web server or received in messages.

Viewing an image

1. Select an image folder and press the **Select** soft key.
2. Select an item and press the *i* key.

Using image options

Press the **Options** soft key to access the following options:

Note: Available options vary depending on whether you are looking at the list or viewing an image.

View: shows the image.

List: return to the image list.

Send via: allows you to send the image by using the messaging feature or the Bluetooth feature.

Set as: allows you to set the image as your wallpaper or as a caller ID image for a contact in Phonebook.

Edit: allows you to edit the image by using the following options:

- **Emotions**: allows you to add an emotion to the image. After selecting an emotion, you can move the emotion by pressing the Navigation keys.
- **Frames**: allows you to apply a decorative frame to the image.
- **Effect**: allows you to change a colour tone of the image.

Delete: allows you to delete the selected image or all images.

Rename: allows you to change the image name.

Move to favorite images: moves the image to the **Favorite image** folder.

Move to download images/**Move to photos**: moves the image to the **Download images** or **Photos** folder.

Slide show: allows you to set all images to automatically display as a slide show. You can select the time interval between images.

Share for bluetooth:

Protection: locks the image to keep it from being deleted.

Properties: shows you information of the image.

Videos *(Menu 6.2)*

In this menu, you can view the videos you have recorded or downloaded from the wireless web or received in messages.

Playing a video clip

1. Select a video folder and press the **Select** soft key.

2. Scroll to the video clip you want and press the *i* key.

   You can use the following options while playing a file:

To	Press the
pause or resume playback	*i* key.
move backward in a clip	Left key.
move forward in a clip	Right key.
adjust the volume level	Volume keys.
stop	Right soft key.

Using video clip options

Press the **Options** soft key to access the following options:

Note: Available options vary depending on whether you are looking at the video list or viewing a still image of a video clip.

Play: plays the video clip.

List: returns to the video list.

Send via: allows you to send the video clip using the messaging feature or the Bluetooth feature.

Delete: allows you to delete the selected video clip or all video clips.

Rename: allows you to change the name of the video clip.

Move to favorite videos/images: moves the video clip to the **Favorite videos** folder.

Move to download videos/Move to videos: moves the video clips to the **Download videos** or **videos** folder.

Share for bluetooth: ??

Protection: locks the video clip to keep it from being deleted.

Properties: shows you information of the video clip.

Music *(Menu 6.3)*

In this menu, you can access music files downloaded from the wireless web, or imported from your computer to the phone through the EasyStudio II programme.

Playing Music

1. Select a file and press the **Options** soft key.
2. Select **Play** and press the **Select** soft key.

You can use the following keys while playing a file:

Key	Function
i	pauses or resume playback.
Left	returns to the previous file.
Right	skips to the next file.
Down	stops playback.
Up	opens the play list.
▲/▼	adjusts the volume level.
1	changes the equalizer mode.
2	changes the skin colour.
3	turns the shuffle mode on or off.
4	turns the 3D sound on or off.
5	changes the repeat mode.

Using music file options

Press the **Options** soft key to access the following options:

Play: begins playing the music file.

Send via: allows you to send the music file using the messaging feature or Bluetooth feature.

Add to playlist: allows you to music files to the play list.

Set as: allows you to set the file as your ring tone or as a caller melody for an entry in Phonebook.

Delete: allows you to delete the music file or all music files.

Rename: allows you to change the file name.

Share for bluetooth: ??

Protection: locks the music file to keep it from being deleted.

Properties: shows you information of the music file.

Sounds *(Menu 6.4)*

In this menu, you can access sound files you have recorded, downloaded from the wireless web, or received in messages.

Playing a sound clip

1. Select a sound folder and press the **Select** soft key.
2. Select a sound clip and press the **Options** soft key.
3. Select **Play** and press the **Select** soft key.

   You can use the following options while playing a sound clip:

To	Press the
pause	**Pause** soft key.
resume	**Play** soft key.
move backward	Left key.
move forward	Right key.
adjust the volume	Volume keys.

To	Press the
switch to Record mode	Up key.
stop	Down key.

Using Sound clip options

Press the **Options** soft key to access the following options:

Play: plays the voice memo.

Send via: allows you to send the sound clip by using the messaging feature or the Bluetooth feature.

Delete: allows you to delete the selected sound clip or all sound clips.

Rename: allows you to change the name of the sound clip.

Move to favorite sounds: moves the sound clip to the **Favorite sounds** folder.

Move to voice list/**Move to download sounds**: moves the sound clip to the **voice list** or **Download sounds** folder.

Share for bluetooth: ??

Protection: locks the sound clip to keep it from being deleted.

Properties: shows you information of the sound clip.

Other files *(Menu 6.5)*

?????

Using file options

Press the **Options** soft key to access the following options:

Send via: allows you to send the file by using the messaging feature or the Bluetooth feature.

Delete: allows you to delete the selected file or all files.

Rename: allows you to change the file name.

Share for bluetooth: ??

Protection: locks the file to keep it from being deleted.

Properties: shows you information of the file.

Memory status *(Menu 6.6)*

You can check the total amount of memory for media files and the amount of memory currently in use each media file folder.

Organiser

The Organiser feature enables you to:

- keep track of your schedule, anniversaries, and tasks and make a memo.
- view missed alarm events.

Scheduling a new event

You can schedule up to 400 events for the calendar. More than one event per day can be scheduled.

Entering a new schedule event

1. After selecting a day on the calendar, press the **Options** soft key.
2. Select **Create** and press the **Select** soft key.
3. Select **Schedule** and press the **Select** soft key.
4. Enter information or select the settings you want in the following field:
   - **Subject**: enter the title of the event. See page 33 for more information about entering characters.
   - **Details**: enter the event details.
   - **Start date**: enter the starting date.
   - **Start time**: enter the starting time of the event.
   - **AM/PM**: select **AM** or **PM**. This option is only available when the time format is set to **12-hour**.
   - **End date**: enter the ending date of the event.

- **End time**: enter the ending time.
- **AM/PM**: select **AM** or **PM**. This option is only available when the time format is set to **12-hour**.
- **Location**: enter information about the event location.
- **Alarm**: press the *i* key to set an alarm to remind you of the event.
- **Before**: set when the alarm will alert you before the event starts; enter the number you want and select a unit.
- **Ringtone**: select an alarm tone.
- **Repeat**: if you are making a recurring event, press the *i* key. Select a repeat unit.
- **Until**: set the ending date for the repeat entry.

5. When you finish entering the event, press the **Save** soft key.

Entering a new anniversary

1. After selecting a day on the calendar, press the **Options** soft key.
2. Select **Create** and press the **Select** soft key.
3. Select **Anniversary** and press the **Select** soft key.
4. Enter information or select the settings you want in the following field:
   - **Occasion**: enter information about the occasion. See page 33 for more information about entering characters.
   - **Date**: enter the date.

- **Alarm**: press the *i* key to set an alarm to remind you of the event
- **Before**: set when the alarm will alert you before the day arrives; enter the number you want and select a unit.
- **Ringtone**: enter the time when the alarm sounds.
- **AM/PM**: select **AM** or **PM**. This option is only available when the time format is set to **12-hour**.
- **Alarmtone**: select an alarm tone.
- **Repeat every year**: press the *i* key to set the phone to remind you every year.

5. When you finish entering the anniversary, press the **Save** soft key.

Entering a memo

1. After selecting a day on the calendar, press the **Options** soft key.
2. Select **Create** and press the **Select** soft key.
3. Select **Memo** and press the **Select** soft key.
4. Enter a memo and press the **Save** soft key.

Entering a task

1. After selecting a day on the calendar, press the **Options** soft key.
2. Select **Create** and press the **Select** soft key.
3. Select **To do** and press the **Select** soft key.

4. Enter information you want or select the settings you want in the following field:
   - **To do**: enter information about the task.
   - **Start date**: enter the starting date.
   - **Due date**: enter the ending date.
   - **Select priority**: select a priority level.
5. When you finish entering the task, press the **Save** soft key.

Consulting the calendar

When you select the **Organiser** menu (**Menu 7.1**), the calendar displays with today's date indicated by a blue box. At the bottom of the calendar, the number of events scheduled for that day displays. The following icons tell you what kind of events they are:

- : Schedule events
- : Anniversaries
- : Tasks
- : Memos

Viewing an event

Square brackets on each corner of a calendar day indicate the type of events:

- Blue: Schedule events
- Orange: Anniversaries
- Green: Memos
- Red: Tasks

When you access a day for which an event already exists on the calendar, a list of the events you have created displays in Day view. Scroll to an event and press the *i* key to view its details.

Using the calendar options

The following options are available when you press the **Options** soft key:

View mode: allows you to change the view mode of the calendar. For details, see page 130.

Create: allows you to add a new event. For details, see page 126.

Go to: allows you to go to a specific date.

Sort by: allows you to change the sort order.

Delete: allows you to delete events for the selected date, specific period or current month/week. You can also delete all of the events in the calendar.

Missed alarm events: allows you to view events for which you have missed alarms.

Memory status: allows you to view the number of events you have saved and the total number of events you can save for each type.

Viewing the calendar in different views

By default, the calendar displays in Month view. You can change the view mode to Day view or Week view.

To change the view mode, press the **Options** soft key and select **View mode**. Then, select the view mode you want.

Day view

In Day view, the calendar shows the list of events for a day.

The following icons may be shown depending on the event's status.

- : Alarm set for the event
- : Recurring event
- : Task of high priority
- : Task of normal priority
- : Task of low priority
- : Completed task

Viewing an event

- Press the Left or Right key to move to other day views.
- Press the Up or Down key to scroll through the events for the selected day.
- Press the *i* key to view the event details.

  To change the event details, press the **Options** soft key and select **Edit**.

Week view

In Week view, the calendar shows the time line of a week.

Square brackets on each corner of a day of the week on the top line indicate the type of events:

- Blue: Schedule events
- Orange: Anniversaries

- Green: Memos
- Red: Tasks

The pink-coloured cell indicates that there are schedule events for that time.

Select any cell in the day you want to view and press the *i* key. The Day view of that day displays.

Viewing missed alarm events

When you are unable to acknowledge an alarm for an event you have set, the phone displays a notification about the missed alarm. When a notification appears, press the **View** soft key to view the corresponding event. Otherwise, press the **Exit** soft key.

To view a missed alarm event press the **Options** soft key and select **Missed event alarms**.

After checking the missed event, press the **Confirm** soft key. The event is deleted from the missed event list.

On the event list, press the **Options** soft key to access the following options:

View: shows you the event.

Delete: allows you to delete the event.

Delete all: allows you to delete all events.

Camera

Using the camera module embedded in your phone, you can take photos of people or events while on the move.

You can also record videos using the phone as a camcorder.

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

Take a photo *(Menu 8.1)*

The camera produces JPEG photos.

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

Taking a photo

1. Access the **Take a photo** menu. You can also press and hold the Camera key on the right side of the phone in Idle mode.

2. Adjust the image to be captured by aiming the camera at the subject.

   When you press the left soft key, you can use the camera options. For details, see page 134.

   You can quickly change the image settings or switch to other modes by using the keypad. For details, see page 136.

3. Press the *i* key or the Camera key to take the photo.

   The photo automatically saves in the **Photos** folder.

   Note: Hold the phone still for 1 or 2 seconds after pressing the camera shutter key. It may take some time to process the image data.

4.

To	Press the
use photo options	**Options** soft key. For further details, see page 137.
return to Capture mode	**Back** soft key.

Using camera options in Capture mode

In Capture mode, you can access various options by pressing the left soft key.

The following options are available:

Shooting mode: allows you to take a photo in various modes.

- **Single shot**: allows you to take a photo in the normal mode.
- **Multi shot**: allows you to take a series of action stills. Select the number of photos the camera will take. When you press the *i* key or the Camera key, the camera takes the photos successively.

  Note: Depending on the specified image size, the shutter speed for series shots may vary. The larger the image, the slower the shutter speed.

- **Mosaic shot**: allows you to take several stills and save them in one frame. Select the number of still images the camera will take. The images will be saved in one frame, consisting of the multiple stills taken.

Effects: allows you to change the colour tone of the photo.

Frames: allows you to use a decorative frame. Select a frame from the list using the Navigation keys.

Flash: turns the flash on or off.

Timer: allows you to set a time delay before the camera takes a photo. Select the length of delay you want.

Go to Photos: goes to the **Photos** folder.

Settings: allows you to change the default settings for taking a photo. The following options are available:

- **Size**: allows you to select the image size.
- **Photo quality**: allows you to select the image quality.
- **Viewfinder**: allows you to select a preview screen.
- **Shutter sound**: allows you to select the sound that you hear when you press the shutter, the Camera key or the *i* key.

Short cuts: shows you the functions of the keys you can use in Capture mode.

Using the keypad in Capture mode

You can use the following keys to customise your camera settings when you are in Capture mode.

Key	Function
Left/ Right	adjusts the brightness of the image.
Up/ Down	zooms in or out.
▲	flips the image vertically.
▼	shows the mirror image.
1	switches to Record mode. See page 138.
2	changes the image size.
3	changes the image quality.
4	changes the camera mode.
5	changes the colour tone of the photo.
6	reduces the distortion on the image to maximise detail and sharpness.
7	selects a decorative frame.
8	sets the timer.
9	goes to the **Photos** folder.
0	turns the flash on or off.
*	changes the viewfinder to Full Screen mode or Standard Ratio mode.

Using photo options

After saving a photo, press the **Options** soft key to access the following options:

Take another: returns to Capture mode.

Send via: allows you to send the photo by using the messaging feature or the Bluetooth feature.

Set as: allows you to set the photo as your wallpaper or as a caller ID image for an entry in Phonebook.

Delete: allows you to delete the photo.

Rename: allows you to change the name of the photo.

Go to photos: goes to the **Photos** folder.

Protection: locks the photo to keep it from being deleted.

Properties: shows you information of the photo.

Taking a photo with the phone closed

You can take a photo with the phone closed, through the external display.

1. Press and hold the Camera key.
2. Scroll to the image setting options by pressing the ▼ key and change the settings by pressing the ▲ key:
   - : shows the mirror image.
   - : adjusts the image brightness.
   - : zooms in or out.
3. Press the Camera key to take a photo.

   The photo is saved automatically.

Record video *(Menu 8.2)*

You can record a video of what is currently displayed on the camera screen and save it as a .3gp file.

Recording a Video

1. When the camera turns on, adjust the image by aiming the camera at the subject.

   When you press the left soft key, you can use the camera options. For details, see page 139.

   You can quickly change the image settings or switch to other modes by using the keypad. For details, see page 139.

2. Press the Camera key or the *i* key to start recording.

3. When you are finished, press the camera key or the *i* key. Or, recording stops when the recording time expires.

   The video clip automatically saves in the **Video clips** folder.

4.

To	Press the
play back the video clip	*i* key.
use the video options	**Options** soft key. For further details, see page 140.
return to Record mode	↺ soft key.

Using camera options in Record mode

Press the **Options** soft key in Record mode to Access the following options for recording a video clip:

Effects: allows you to change the colour tone or apply a special effect to the video clip.

Flash: turn the flash on or off.

Timer: allows you to set a time delay before the camera starts recording the video clip. Select the length of delay you want.

Go to Videos: goes to the **Videos** folder.

Settings: allows you to change the default settings for recording a video. The following options are available:

- **Recording mode**: allows you to select a video recording mode.

When this option is set to **Limit for MMS**, you can record a video for adding to an MMS message. In this mode the frame size can be **176X144** or **128X96** and the quality in fixed to **Economy**.

When this option is set to **Normal**, you can record a video within the limit of the current available memory. How long your video can be depends on how much memory has been used.

- **Size**: allows you to select the image size.
- **Video quality**: allows you to select the image quality.
- **Viewfinder**: allows you to select a preview screen.
- **Audio record**: allows you to record audio with a video clip.

Camcorder short cuts: shows you the functions of the keys you can use in Record mode.

Using the keypad in Record mode

You can use the following keys to customise your camera settings when you are in Record mode:

Key	Function
Up/ Down	zooms in or out.
Left/ Right	adjusts the brightness of the image.
▲	flips the image vertically.
▼	shows the mirror image.
1	switches to Capture mode. See page 133.
2	changes the frame size.
3	changes the image quality.
4	Changes the recording mode to MMS mode or Normal mode.
5	changes the colour tone of the video.
6	reduces the distortion on the image to maximise detail and sharpness.
7	turns audio on or off.
8	sets the timer.
9	goes to the **Video clips** folder.
0	turns the flash on or off.
*	changes the viewfinder to Full Screen mode or Standard Ratio mode.

Using video options

When you press the **Options** soft key after saving a video clip, the following options are available:

Record another: returns to Record mode.

Send via: allows you to send the video clip by using the messaging feature or the Bluetooth feature.

Delete: allows you to delete the video clip.

Rename: allows you to change the name of the video clip.

Go to Videos: goes to **Videos** folder.

Protection: locks the video clip to keep it from being deleted.

Properties: shows you information of the video clip.

Recording a video with the phone closed

You can record a video with the phone closed, through the external display.

1. Press and hold the Camera key.
2. Press the ▲ key to switch to Record mode.
3. Scroll to the image setting options by pressing the ▼ key and change the settings by pressing the ▲ key:
   - : shows the mirror image.
   - : adjusts the image brightness.
   - : zooms in or out.
4. Press the Camera key to start recording.
5. Press the Camera key to stop.

   The video clip is saved automatically.

Go to Photos *(Menu 8.3)*

When you access this menu, a list of photos you have taken displays.

Viewing a photo

Scroll through the list using the Up or Down key. To view the selected photo, press the *i* key. To go back to the photo list, press the **Back** soft key.

Using photo options

Press the **Options** soft key to access the following options:

Note: Available options vary depending on whether you are looking at the photo list or viewing a photo.

View: shows the photo.

List: returns you to the photo list.

Send via: allows to send the photo by using the messaging feature or the Bluetooth feature.

Set as: allows you to set the photo as your wallpaper or as a caller ID image for an entry in Phonebook.

Delete: allows you to delete the photo or all photos.

Rename: allows you to change the name of the photo.

Move to Favorite images: allows you to move the photo to the **Favorite images** folder.

Slide show: set all photos to automatically display one after another as a slide show. You can select a time interval between photos.

Share for bluetooth: ??

Protection: locks the photo to keep it from being deleted.

Properties: shows information of the photo.

Go to Video clips *(Menu 8.4)*

When you access this menu, a list of the videos you have recorded displays.

Playing a video clip

Scroll to a video using the Up or Down key and press the *i* key.

During playback, you can use the following options:

To	Press the
Pause playback/resume	*i* key.
move backward in the video	Left key.
move forward in the video	Right key.
adjust the volume level	Volume keys.
stop playback	right soft key.

Using video clip options

Press the **Options** soft key to access the following options:

Play: plays the video clip.

Send: allows you to send the video clip by using the messaging feature or the Bluetooth feature.

Delete: allows you to delete the video clip or all video clips.

Rename: allows you to change the name of the video clip.

Move to Favorite videos: allows you to move the video clip to the **Favorite videos** folder.

Share for bluetooth:

Protection: locks the video clip to keep it from being deleted.

Properties: shows you information of the video clip.

Settings

In this menu, you can customise your phone's various settings, such as:

- time and date setting
- phone settings
- display settings
- sound settings
- network services
- Bluetooth settings
- security settings
- connection settings

You can also reset the settings to their default values.

Time & Date *(Menu 9.1)*

This menu allows you to change the current time and date displayed.

The following options are available:

Set time: allows you to enter the current time using the number keys.

Note: Before setting the time, you must specify your time zone in the **World time** menu (**Menu 3.4**).

AM/PM: allows you to select **AM** or **PM**. This option is only available when the **Time format** is set to **12 hours**.

Time format: allows you to select a time format, **12 hours** or **24 hours**.

Set date: allows you to enter the current date using the number keys.

Starting day of calendar: allows you to set which day of the week the calendar starts with.

Phone settings *(Menu 9.2)*

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

Language *(Menu 9.2.1)*

You can select a language for the display text. Select one of several languages.

You can select a display language. When the language option is set to **Automatic**, the language is automatically selected according to the language of the SIM card used.

Note: Depending on your country, service provider, or the software version of the phone, the **Automatic** option may not display.

Greeting message *(Menu 9.2.2)*

This menu allows you to set a greeting to be displayed briefly when the phone is switched on.

Short cut *(Menu 9.2.3)*

The Navigation keys can be used as shortcut keys. In Idle mode, they allow you to access specific menus directly.

To assign a shortcut to a key:

1. Press the key you want to use as a shortcut key and press the *i* key.

2. Select the menu to be assigned and press the **Select** soft key.

On the Short cut screen, press the **Options** soft key to access the following options:

Change: allows you to change a shortcut menu.

Remove: deactivates the shortcut key assignment to the selected key.

Remove all: deactivates all of shortcut assignments.

Extra settings *(Menu 9.2.4)*

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

To activate a feature, press the *i* key to place a check mark.

The following options are available:

Auto redial: when this option is enabled, the phone makes up to 10 attempts to redial a phone number after an unsuccessful call.

Note: The interval between attempts varies.

Active folder: when this option is enabled, you can simply open the phone to answer a call.

Anykey answer: when this option is enabled, you can answer an incoming call by pressing any key, except the key or the **Reject** soft key. To reject the call, press the key or the **Reject** soft key.

When this option is set to **Off**, you must press the key or the **Accept** soft key to answer a call.

Display settings *(Menu 9.3)*

In this menu, you can change various settings for the display or the backlight.

Idle *(Menu 9.3.1)*

This menu allows you to set up what is shown on the main display or the external display in Idle mode.

The following options are available:

Main LCD wallpaper: allows you to change the image to be displayed on the main display.

Sub LCD wallpaper: allows you to change the image to be displayed on the external display.

Text position: allows you to select a text position. If you don't want text to display in Idle mode, select **Off**.

Text style: allows to apply the shadow or outline to text.

Text colour: allows you to select the colour of the text.

Graphic logo: allows you to set phone to display the service provider's logo instead of its name, if you have download one.

Skin *(Menu 9.3.3)*

In this menu, you can select a skin colour pattern for Menu mode. Select one of 4 patterns.

LCD brightness *(Menu 9.3.4)*

You can adjust the brightness of the display to see it better in different lighting conditions.

Back light *(Menu 9.3.5)*

In this menu, you can select a length of time the backlight is on and the display is on in Dim mode, in which the backlight is off.

The following options are available:

Main LCD on: allows you to select a length of time the backlight of the main display stays on at the time of inactivity after you open the phone or press the last key.

Main LCD dim: allows you to select a length of time the main display stays on at the time of inactivity after the backlight turns off.

Sub LCD on: allows you to select a length of time the backlight of the external display stays on after you close the phone.

Fixed icon display: allows you to set whether or not the external display shows the fixed icons.(??)

Sound settings *(Menu 9.4)*

You can customise various sound settings.

Note: If the phone is in Quiet mode (see page 32), a confirmation message appears. Press the **Yes** soft key to listen to a sound when you change a sound setting.

Incoming call *(Menu 9.4.1)*

In this menu, you can select a ring tone volume and alert type for incoming calls.

The following options are available:

Ringtone: allows you to select a ring melody.

Volume: allows you to select a ring volume.

Alert type: allows you to specify how you are to be informed of incoming calls.

- **Melody**: the phone rings using the selected ring tone.
- **Vibration**: the phone vibrates but does not ring.
- **Vibration then melody**: the phone vibrates three times and then starts ringing.

Keypad tone *(Menu 9.4.2)*

This menu allows you to select the tone that the phone sounds when you press a key.

Message tone *(Menu 9.4.3)*

This menu allows you to set up the ringers for SMS, MMS, e-mail, and CB messages.

For each message, the following options are available:

Tone: allows you to use one of several message tones.

Alert type: allows you to specify how you are informed of any incoming messages.

Melody: the phone rings using the tone selected under the **Tone** option.

Vibration: the phone vibrates.

Vibration then melody: the phone vibrates 6 times and then starts ringing.

Repetition: allows you to specify how often the phone informs you of a new message.

Power on/off *(Menu 9.4.4)*

This menu allows you to select the melody that the phone sounds when it is switched on or off.

Folder tone *(Menu 9.4.5)*

This menu allows you to select the tone that the phone sounds when you open or close the phone.

Quiet mode *(Menu 9.4.6)*

In this menu, you can select an alert type for incoming calls or messages when the phone is in Quiet mode.

The following options are available:

Vibration: the phone vibrates in Quiet mode.

Mute: the phone mutes all sound settings in Quiet mode.

Extra tones *(Menu 9.4.7)*

You can customise additional tones for the phone.

To use a tone, select it and press the *i* key to place a check mark.

The following options are available:

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

Connection tone: your phone beeps when your call is connected to the system.

Alerts on call: the phone informs you when you receive a new message or when the time for an alarm comes during a call.

Indicative tones: the phone beeps when a pop-up window displays.

Network services *(Menu 9.5)*

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

Call diverting *(Menu 9.5.1)*

This network service enables incoming calls to be rerouted to a number that you specify.

Example: You may wish to divert your business calls to a colleague while you are on holiday.

Activating your call diverting options

1. Select a call diverting option and press the **Select** soft key.

   The following options are available:

   - **Divert always**: all calls are diverted.
   - **Busy**: calls are diverted when you are already on another call.
   - **No reply**: calls are diverted when you do not answer the phone.
   - **Unreachable**: calls are diverted when you are not in an area covered by your service provider or when your phone is switched off.
   - **Cancel all**: all call diverting options are cancelled.

2. Select the type of calls, voice or data, and press the **Select** soft key.

   The current status displays. If the option has already been set, the number to which the calls are diverted displays.

3. Press the **Activate** soft key.

4. Enter the number to which the calls are to be diverted and press the **OK** soft key.

   To enter an international code, press the **0** key until the **+** sign displays.

5. If you selected **No reply** in step 1, select the length of time the network delays before diverting a call and press the **Select** soft key.

   The phone sends your settings to the network and the network's acknowledgement displays.

Changing the phone number for call diverting

1. Select the call diverting option to which to apply this setting and press the **Select** soft key.

2. Select the type of calls, voice or data, and press the **Select** soft key.

   The current status displays. If the option has already been set, the number to which the calls are diverted displays.

3. Press the **Options** soft key.

4. Select **Change** and press the **Select** key.

5. Enter a new number and press the **OK** key.

Deactivating specific call diverting options

1. Select the call diverting options to be deactivated and press the **Select** soft key.

2. Select the type of calls to which this option applies and press the **Select** soft key.

3. Press the **Options** soft key and select **Remove**.

4. Press the **Select** soft key.

Call barring *(Menu 9.5.2)*

The call barring network service allows you to restrict your calls.

Activating call barring options

1. Select a call barring option and press the **Select** soft key.

   The following options are available:

   - **All outgoing**: calls cannot be made.
   - **International**: international calls cannot be made.
   - **International except to home**: when abroad, calls can be made only to numbers within the current country and to your home country, which is the country where your home network provider is located.
   - **All incoming**: calls cannot be received.
   - **Incoming while abroad**: calls cannot be received when you are using your phone outside of your home country.
   - **Cancel all**: all call barring settings are deactivated; calls can be made and received normally.

2. Select the type of calls, voice or data and press the **Select** soft key.

3. Select the **Activate** soft key.

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

   The phone sends your settings to the network and the network's acknowledgement displays.

Changing the barring password

1. Select **Change barring password** and press the **Select** soft key.

2. Enter the current password and press the **OK** soft key.

3. Enter a new password and press the **OK** soft key.

   Enter the new password again and press the **OK** soft key.

Deactivating specific call barring settings

1. Select the call barring option to be deactivated and press the **Select** soft key.

2. Select the type of calls to which this option applies and press the **Select** soft key.

3. Press the **Deactivate** soft key.

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

   The phone sends your settings to the network and the network's acknowledgement displays.

Call waiting *(Menu 9.5.3)*

This network service informs you when someone is trying to reach you during another call.

You can specify individual call waiting options for voice calls and/or data calls.

To set your call waiting options:

1. Select the type of calls, voice or data, to which you want to apply the call waiting option and then press the **Select** soft key.

   The screen informs you whether call waiting is activated or deactivated.

2. You can activate or deactivate the call waiting feature as necessary by selecting the **Activate** or **Deactivate** option respectively and press the **Select** soft key.

   To return to the previous screen, press the **Back** soft key.

You can also deactivate all call waiting settings by selecting the **Cancel all** option.

Network selection *(Menu 9.5.4)*

The Network Selection feature enables you to automatically or manually select the network used when roaming outside of your home area.

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

To automatically or manually select the network to be used when roaming:

1. Select the appropriate option and press the **Select** soft key.

   If you select **Automatic**, you are connected to the first available network when roaming.

   If you select **Manual**, go to step 2.

2. Press the Up or Down key until the network you want highlights and then press the **OK** soft key.

   The phone will scan for that network and you will be connected.

Caller ID *(Menu 9.5.5)*

You can prevent your phone number from being displayed on the phone of the person being called.

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

The following options are available:

Default: the default setting provided by the network is used.

Hide number: your number does not display on the other person's phone.

Send number: your number is sent each time you make a call.

Voice mail *(Menu 9.5.6)*

This menu allows you to access your voice mail box, if your network supports this service.

The following options are available:

Connect to voice server: allows you to connect to your voice mail server and listen to your voice mails. Before using the voicemail feature, you must enter the voice mail server number obtained from your service provider.

Note: You can quickly connect to the voice mail server by pressing and holding the **1** key in Idle mode.

Voice server number: allows you to change the voice mail server number, if necessary.

Closed user group *(Menu 9.5.7)*

This network service allows incoming and outgoing calls to be restricted to a selected user group. You can create up to 10 user groups.

Example: A company lends SIM cards to its employees and wants to restrict outgoing calls to members of the same team.

For details about how to create and use a closed user group, contact your service provider.

In the **Close user group** menu, you can access the following options to set up the CUG feature:

Index list: lets you list, add, or delete CUG index numbers.

If there is no CUG index stored, you are prompted to add a new index when you select this option. Once you have added a CUG index, the list of current CUG indexes appears.

Add a new CUG index as advised by your service provider, or delete a group.

To	Press the
scroll through existing CUG indexes	Up or Down key.
add a new CUG index	**Options** soft key select **Add** and enter the index.
delete a CUG index	**Options** soft key and select **Delete**.
activate a CUG index	**Options** soft key and select **Activate**.

Outside access: lets you enable or disable calls to numbers other than those in the Closed user group. This feature depends on the nature of your CUG subscription. Please check with your service provider.

Default group: you may set a default CUG with your service provider. If you have done so, you can enable the **Default group** option on your phone. When making a call, you are given the option of using your default CUG, instead of selecting one from the list.

Deactivate: deactivates the CUG function. This menu appears only when the default group is enabled or a CUG index is selected.

Band selection *(Menu 9.5.8)*

For the phone to make and receive phone calls, it must register with an available network. Your phone can handle any of the following types of networks:

- GSM 1900
- Combined GSM 900/1800

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

1. Select the appropriate option and press the **OK** soft key.

2. When the display confirms the network band you selected, press the **Yes** soft key.

   To cancel the selection, press the **No** soft key.

When you select a new band, your phone automatically searches for all available networks. Your phone registers with a preferred network within the band.

Bluetooth *(Menu 9.6)*

Bluetooth technology enables cost-free wireless connections between electronic devices within a maximum range of 10 meters. A Bluetooth connection can be used to send photos, images, videos, messages, scheduled items, and to connect wirelessly to devices using Bluetooth technology, such as computers.

Since Bluetooth devices communicate using radio waves, your phone and the other Bluetooth device do not need to be in line of sight to each other.

The 2 devices only need to be within a maximum of 10 meters of each other, although the connection can be subjected to interference from obstructions, such as walls or other electronic devices. In some countries, there may be restrictions on using Bluetooth devices. Please contact your service provider.

Setting up the Bluetooth feature

When you access **Bluetooth** menu, you can access the following options:

Activation: allows you to activate the Bluetooth feature.

My devices: allows you to search for connectable Bluetooth devices. For details, see the following page.

My phone's visibility: allows you to set whether or not your phone is available to other Bluetooth devices.

My phone's name: allows you to change your phone's Bluetooth device name, which is displayed on other devices. You can enter up to 32 characters.

Secure mode: allows you to select whether or not the phone asks for your confirmation when other devices access your data.

Bluetooth services: shows a list of the Bluetooth services you can use.

Searching for and pairing a Bluetooth device

1. Select **My devices** from the Bluetooth setting options and press the **Select** soft key.

2. Press the **Select** soft key when **Search new device** highlights.

   If you have searched for devices before, the phone displays the **More devices** option along with the devices you have searched for previously. To search for new devices, select the **More devices** option and press the **Select** soft key.

3. Scroll to a device and press the **Select** soft key to connect to the device to be paired.

   After searching for connectable devices, a list of devices you can connect to displays. The icon on the left of the device tells you the kind of device:

   - for a handsfree or headset
   - for a mobile phone
   - for a computer
   - for a PDA
   - for an unknown device

   The colour of the icon tells you the status of the device; grey for unpaired devices, blue for paired devices, and red for devices that are currently connected to your phone.

4. Enter the PIN code and press the **OK** soft key.

Using device options

When you press the **Options** soft key on the device list, you can access the following options:

Browse files: allows you to search for data from other devices and take data directly to your phone.

Rename: allows you to change the name of the paired device.

Authorise/**Unauthorise device**: allows you to set whether or not the phone asks you to permit connection when other devices try to connect to your phone.

Delete: allows you to delete the device.

Security *(Menu 9.7)*

The Security feature enables you to restrict the use of your phone by others and to restrict the types of calls made.

Various codes and passwords are used to protect the features of your phone. They are described in the following sections. Also see pages 172-174.

PIN check *(Menu 9.7.1)*

When the PIN Check feature is enabled, you must enter your PIN each time you switch on the phone. Consequently, any person who does not have your PIN cannot use your phone without your approval.

Change PIN *(Menu 9.7.2)*

This feature allows you to change your current PIN to a new one, provided that the PIN Check feature is enabled.

Phone lock *(Menu 9.7.3)*

When the Phone Lock feature is enabled, the phone is locked and you must enter a 4- to 8-digit phone password each time the phone is switched on.

The password is preset to “00000000” at the factory. To change the phone password, see the **Change password** menu.

Change password *(Menu 9.7.4)*

The Change Password feature allows you to change your current phone password to a new one.

The password is preset to “00000000” at the factory. Once you have entered a new 4- to 8- digit password, you are asked to confirm it by entering it again.

Privacy *(Menu 9.7.5)*

Using this menu, you can lock your media contents, such as multimedia messages, e-mails, images, videos, music files, and sounds. Once you have locked the contents, you must enter the phone’s password to access phone functions.

SIM lock *(Menu 9.7.6)*

When the SIM Lock feature is enabled, your phone only works with the current SIM. You must enter the SIM lock code to use a different SIM card.

To unlock the SIM card, you must enter the SIM lock code.

FDN mode *(Menu 9.7.7)*

FDN (Fixed Dial Number) mode, if supported by your SIM card, allows you to restrict your outgoing calls to a limited set of phone numbers.

Change PIN2 *(Menu 9.7.8)*

The Change PIN2 feature allows you to change your current PIN2 to a new one.

Note: Not all SIM cards have a PIN2. If your SIM card does not, this menu does not display.

Connect settings *(Menu 9.8)*

You can customize the profiles containing the settings for connecting your phone to the network. You need these settings to use the WAP browser or send MMS messages or e-mails.

Note: Your phone is suited for connecting to the network by default. If you change the MMS settings without first checking with your service provider, the WAP, MMS, and e-mail features may not work properly.

Changing a profile

For each profile, the following options available:

Profile name: enter a name that you wish to assign to the profile.

Home URL: enter the address of the WAP homepage of your service provider.

Proxy: activate or deactivate the proxy server. When you checked this option, the **IP address** and **Port** options are activated. Enter the IP address and the port number.

DNS: activate or deactivate the DNS address. When you checked this option, **DNS1** and **DNS2** options are activated. Enter the DNS addresses.

Bearer: select the network bearer type, either **GPRS** or **GSM**.

Advanced: select to change the advanced options. Depending on the bearer setting, available options vary.

When the bearer is set to **GPRS**:

APN: enter the access point name.

Login ID: enter the login ID.

Password: enter the login password.

When the bearer is set to **GSM**:

Dial number: enter the PPP phone number.

Login ID: enter the login ID.

Password: enter the login password.

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

Using profile options

From the profile list, press the **Options** soft key to access the following options:

Edit: allows you to change properties of a profile.

Delete: allows you to delete a profile.

Add new connection: allows you to add a new profile.

Reset settings *(Menu 9.9)*

Using this menu, you can reset the **Phone settings**, **Display settings**, and **Sound settings** menus individually. You can also reset all the settings in your phone at one time.

1. Select a setting menu to reset and press the *i* key.

   Repeat this to select more menus.

2. Press the **Reset** soft key to reset the marked items.

3. Press the **Yes** soft key to confirm the reset.

4. Enter the 4- to 8-digit phone password and press the **OK** soft key.

Note: The password is preset to “00000000” at the factory. To change this password, see page 165.

Solving problems

If you are experiencing problems with your phone, perform the following simple checks, before contacting a service professional. This may save you the time and expense of an unnecessary service call.

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

Insert SIM card

- Check that the SIM card is correctly installed.

Phone locked enter password

- 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 Personal Identification Number (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 (**Menu 9.7.1**).

Enter PUK

- The PIN code was 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 (in a tunnel or surrounded by buildings). Move and try again.
- You are trying to access an option for which you have not taken out a subscription with your service provider. Contact the service provider for further details.

You have entered a number but it was not dialled

- Have you pressed the key?
- Are you accessing the right cellular network?
- You may have set an outgoing call barring option.

Your correspondent cannot reach you

- Is your phone switched on (the key pressed for more than one second)?
- Are you accessing the right cellular network?
- You may have set an incoming call barring option.

Your correspondent cannot hear you speaking

- Have you switched off the microphone?
- Are you holding the phone close enough to your mouth? The microphone is located at the bottom of the phone.

The phone starts beeping and "**Warning** Low Battery" flashes on the display

- Your battery is insufficiently charged. Recharge the battery.

The audio quality of the call is poor

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

No number is dialled when you recall a Contacts entry

- Check that the number has been stored correctly, by using the Contacts Search feature.
- Re-store the number, if necessary.

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.

Access codes

There are several access codes that are used by your phone and its SIM card. These codes help you protect the phone against unauthorised use.

When requested for any of the codes explained below, enter the appropriate code (displayed as asterisks) and press the **OK** soft key. If you make a mistake, press the **C** key one or more times until the incorrect digit is cleared and then continue entering the correct code.

The access codes, except for the PUK and PUK2 codes, can be changed using the **Security** menu (**Menu 9.7**). See page 164 for further details.

Important! Avoid using access codes resembling emergency numbers, such as 112, so that you do not accidentally dial an emergency number.

Phone password

The Phone Lock feature uses the phone password to protect your phone against unauthorised use. The phone password is supplied with the phone and is preset to “00000000” at the factory.

To	See
activate/deactivate the Phone Lock feature	page 165 (**Menu 9.7.3**).
change the phone password	page 165 (**Menu 9.7.4**).

PIN

The **P**ersonal **I**dentification **N**umber or PIN (4 to 8 digits) protects your SIM card against unauthorised use. It is usually supplied with the SIM card.

If you enter an incorrect PIN three times in succession, the code is disabled and cannot be used until you re-enable it by entering the PUK (see below).

To	See
activate/deactivate the PIN Check feature	page 164 (**Menu 9.7.1**).
change the PIN	page 165 (**Menu 9.7.2**).

PUK

The 8-digit PUK (**P**IN **U**nblocking **K**ey) is required to change a disabled PIN. The PUK may be supplied with the SIM card. If not, or if you have lost it, contact your service provider.

To re-enable your PIN:

1. Enter the PUK and press the **OK** soft key.
2. Enter a new PIN of your choice and press the **OK** soft key.
3. When the **Confirm New PIN** message displays, enter the same code again and press the **OK** soft key.

If you enter an incorrect PUK ten times in succession, the SIM card becomes invalid. Contact your service provider for a new card.

PIN2

The PIN2 (4 to 8 digits), supplied with some SIM cards, is required to access specific functions, such as setting the maximum cost of a call. These functions are available if supported by your SIM card.

If you enter an incorrect PIN2 three times in succession, the code is disabled and you cannot access the functions until you re-enable it by entering the PUK2.

To change the PIN2, see page 166 (**Menu 9.7.8**).

PUK2

The 8-digit PUK2 (**P**IN **U**nblocking **K**ey **2**), supplied with some SIM cards, is required to change a disabled PIN2. If you lose the code, contact your service provider.

To re-enable your PIN2:

1. Enter the PUK2 and press the **OK** soft key.
2. Enter a new PIN2 of your choice and press the **OK** soft key.
3. When the **Confirm PIN2** message displays, enter the same code again and press the **OK** soft key.

If you enter an incorrect PUK2 ten times in succession, you will not be able to access the functions requiring the PIN2. Contact your service provider for a new card.

Barring password

A 4-digit barring password is required when you use the Call Barring function. You can obtain the password from your service provider when you subscribe to this function.

You can change this password in the **Call barring** menu (**Menu 9.5.2**). See page 155 for further details.

Health and safety information

SAR certification information

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

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

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

*n 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.

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 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.

FCC certification information for this model phone is attached separation paper.

For body operation

To maintain compliance with FCC RF exposure requirements, use only belt-clips, holsters or similar accessories that maintain a 1.5 cm. separation distance between the user's body and the back of the phone, including the antenna. The use of belt-clips, holsters and similar accessories should not contain metallic components in its assembly. The use of accessories

that do not satisfy these requirements may not comply with FCC RF exposure requirements, and should be avoided.

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

Federal Communications Commission (FCC)
http://www.fcc.gov

Cellular Telecommunications Industry Association (CTIA): http://www.wow-com.com

U.S.Food and Drug Administration (FDA)
http://www.fda.gov/cdrh/consumer

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

Precautions when using batteries

- Never use any charger or battery that is damaged in any way.
- Use the battery only for its intended purpose.
- If you use the phone near the network's base station, it uses less power; talk and standby time are greatly affected by the signal strength on the cellular network and the parameters set by the network operator.
- Battery charging time depends on the remaining battery charge 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 voice mail answer it for you.

4. Let the person you are speaking with know you are driving; if necessary, suspend the call in heavy traffic or hazardous weather conditions. Rain, sleet, snow, ice and even heavy traffic can be hazardous.

5. Do not take notes or look up phone numbers while driving. Jotting down a To Do list or flipping through your 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 non-emergency wireles 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 non-emergency wireless number.

Operating environment

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

When connecting the phone or any accessory to another device, read its user's guide for detailed safety instructions. Do not connect incompatible products.

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

Electronic devices

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

Pacemakers

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

Persons with pacemakers:

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

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

Hearing aids

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

Other medical devices

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

Vehicles

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

Posted facilities

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

Potentially explosive environments

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

Users are advised to switch the phone off while at a refueling point (service station). Users are reminded of the need to observe restrictions on the use of radio equipment in fuel depots (fuel storage and distribution areas), chemical plants or where blasting operations are in progress.

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

Emergency calls

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

Remember, to make or receive any calls the phone must be switched on and in a service area with adequate signal strength. Emergency calls may not

be possible on all wireless phone networks or when certain network services and/or phone features are in use. Check with local service providers.

To make an emergency call:

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

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

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

Other important safety information

- Only qualified personnel should service the phone or install the phone in a vehicle. Faulty installation or service may be dangerous and may invalidate any warranty applicable to the device.
- Check regularly that all wireless phone equipment in your vehicle is mounted and operating properly.
- Do not store or carry flammable liquids, gases or explosive materials in the same compartment as the phone, its parts or accessories.
- For vehicles equipped with an air bag, remember that an air bag inflates with great force. Do not place objects, including both installed or portable wireless equipment in the area over the air bag or in the air bag deployment area. If wireless equipment is improperly installed and the air bag inflates, serious injury could result.
- Switch your phone off before boarding an aircraft. The use of wireless 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 the phone and all its parts and accessories out of the reach of small children's.
- Keep the phone dry. Precipitation, humidity and liquids contain minerals that will corrode electronic circuits.
- Do not use the phone with a wet hand. Doing so may cause an electric shock to you or damage to the phone.
- Do not use or store the phone in dusty, dirty areas, as its moving parts may be damaged.
- Do not store the phone in hot areas. High temperatures can shorten the life of electronic devices, damage batteries, and warp or melt certain plastics.
- Do not store the phone in cold areas. When the phone warms up to its normal operating temperature, moisture can form inside the phone, which may damage the phone's electronic circuit boards.
- Do not drop, knock or shake the phone. Rough handling can break internal circuit boards.
- Do not use harsh chemicals, cleaning solvents or strong detergents to clean the phone. Wipe it with a soft cloth slightly dampened in a mild soap-and-water solution.

- Do not paint the phone. Paint can clog the device's moving parts and prevent proper operation.
- Do not put the phone in or on heating devices, such as a microwave oven, a stove or a radiator. The phone may explode when overheated.
- Use only the supplied or an approved replacement antenna. Unauthorised antennas or modified accessories may damage the phone and violate regulations governing radio devices.
- If the phone, battery, charger or any accessory is not working properly, take it to your nearest qualified service facility. The personnel there will assist you, and if necessary, arrange for service.

Acknowledging special precautions and the FCC and industry Canada n187otice

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 SAR values for this model phone as reported to the FCC are Head: 1.48W/Kg, Body-worn: 0.546W/Kg.

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 A3LSGHE880.

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

Appendix B: Guide to Safe and Responsible Wireless Phone Use

Cellular Telecommunications & Internet Association

“Safety is the most important call you will ever make.”

A Guide to Safe and Responsible Wireless Phone Use

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

But an important responsibility accompanies those benefits, one that every wireless phone user must uphold. When driving a car, driving is your first responsibility. A wireless phone can be an invaluable tool, but good judgment must be exercised at all times while driving a motor vehicle-whether on the phone or not.
The basic lessons are ones we all learned as teenagers. Driving requires alertness, caution and courtesy. It requires a heavy dose of basic common sense-keep your head up, keep your eyes on the road, check your mirrors frequently and watch out for other drivers. It requires obeying all traffic signs and signals and staying within the speed limit.
It means using seat belts and requiring other passengers to do the same.
But with wireless phone use, driving safely means a little more. This brochure is a call to wireless phone

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

Wireless Phone “Safety Tips”

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

1. Get to know your wireless phone and its features such as speed dial and redial. Carefully read your instruction manual and learn to take advantage of valuable features most phones offer, including automatic redial and memory. Also, work to memorize the phone keypad so you can use the speed dial function without taking your attention off the road.

2. When available, use a hands free device. A number of hands free wireless phone accessories are readily available today. Whether you choose an installed mounted device for your wireless phone or a speaker phone accessory, take advantage of these devices if available to you.

3. Position your wireless phone within easy reach. Make sure you place your wireless phone within easy reach and where you can grab it without removing your eyes from the road. If you get an incoming call at an inconvenient time, if possible, let your voice mail answer it for you.

4. Suspend conversations during hazardous driving conditions or situations. Let the person you are speaking with know you are driving; if necessary, suspend the call in heavy traffic or hazardous weather conditions. Rain, sleet, snow and ice can be hazardous, but so is heavy traffic. As a driver,

your first responsibility is to pay attention to the road.

5. Do not take notes or look up phone numbers while driving. If you are reading an address book or business card, or writing a “to do” list while driving a car, you are not watching where you are going. It’s common sense. Don’t get caught in a dangerous situation because you are reading or writing and not paying attention to the road or nearby vehicles.

6. Dial sensibly and assess the traffic; if possible, place calls when you are not moving or before pulling into traffic. Try to plan your calls before you begin your trip or attempt to coincide your calls with times you may be stopped at a stop sign, red light or otherwise stationary. But if you need to dial while driving, follow this simple tip-dial only a few numbers, check the road and your mirrors, then continue.

7. Do not engage in stressful or emotional conversations that may be distracting. Stressful or emotional conversations and driving do not mix-they are distracting and even dangerous when you are behind the wheel of a car. Make people you are talking with aware you are driving and if necessary, suspend conversations which have the potential to divert your attention from the road.

8. Use your wireless phone to call for help. Your wireless phone is one of the greatest tools you can own to protect yourself and your family in dangerous situations-with your phone at your side, help is only three numbers away. Dial 9-1-1 or other local emergency number in the case of fire, traffic accident, road hazard or medical emergency. Remember, it is a free call on your wireless phone!

9. Use your wireless phone to help others in emergencies. Your wireless phone provides you a perfect opportunity to be a “Good Samaritan” in your community. If you see an auto accident, crime in progress or other serious emergency where lives are in danger, call 9-1-1 or other local emergency number, as you would want others to do for you.
10. Call roadside assistance or a special wireless non-emergency assistance number when necessary. Certain situations you encounter while driving may require attention, but are not urgent enough to merit a call for emergency services. But you still can use your wireless phone to lend a hand. If you see a broken-down vehicle posing no serious hazard, a broken traffic signal, a minor traffic accident where no one appears injured or a vehicle you know to be stolen, call roadside assistance or other special non-emergency wireless number.

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

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

Cellular Telecommunications & Internet Association
For more information, please call 1-888-901-SAFE.
For updates: http://www.wow-com.com/consumer/issues/driving/articles.cfm?ID=85

Appendix C: Consumer Update on Wireless Phones

U.S. Food and Drug Administration

1. What kinds of phones are the subject of this update?

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

2. Do wireless phones pose a health hazard?

The available scientific evidence does not show that any health problems are associated with using wireless phones. There is no proof, however, that wireless phones are absolutely safe. Wireless phones emit low levels of radio frequency energy (RF) in the microwave range while being used. They also emit very low levels of RF when in the stand-by mode. Whereas high levels of RF can produce health effects (by heating tissue), exposure to low

level RF that does not produce heating effects causes no known adverse health effects. Many studies of low level RF exposures have not found any biological effects. Some studies have suggested that some biological effects may occur, but such findings have not been confirmed by additional research. In some cases, other researchers have had difficulty in reproducing those studies, or in determining the reasons for inconsistent results.

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

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

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

Support needed research into possible biological effects of RF of the type emitted by wireless phones;

Design wireless phones in a way that minimizes any RF exposure to the user that is not necessary for device function; and

Cooperate in providing users of wireless phones with the best possible information on possible effects of wireless phone use on human health

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

National Institute for Occupational Safety and Health

Environmental Protection Agency
Federal Communications Commission
Occupational Safety and Health Administration

National Telecommunications and Information Administration

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

FDA shares regulatory responsibilities for wireless phones with the Federal Communications Commission (FCC). All phones that are sold in the United States must comply with FCC safety guidelines that limit RF exposure. FCC relies on FDA and other health agencies for safety questions about wireless phones.

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

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

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

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

FDA and the Cellular Telecommunications & Internet Association (CTIA) have a formal Cooperative Research and Development Agreement (CRADA) to do research on wireless phone safety. FDA provides the scientific oversight, obtaining input from experts in government, industry, and academic organizations. CTIA-funded research is conducted through contracts to independent investigators. The initial research will include both laboratory studies and studies of wireless phone users. The CRADA will also include a broad assessment of additional research needs in the context of the latest research developments around the world.

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

If there is a risk from these products—and at this point we do not know that there is—it is probably very small. But if you are concerned about avoiding even potential risks, you can take a few simple

steps to minimize your exposure to radio frequency energy (RF). Since time is a key factor in how much exposure a person receives, reducing the amount of time spent using a wireless phone will reduce RF exposure.

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

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

6. What about children using wireless phones?

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

Some groups sponsored by other national governments have advised that children be discouraged from using wireless phones at all. For example, the government in the United Kingdom distributed leaflets containing such a recommendation in December 2000. They noted

that no evidence exists that using a wireless phone causes brain tumors or other ill effects. Their recommendation to limit wireless phone use by children was strictly precautionary; it was not based on scientific evidence that any health hazard exists.

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

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

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

Since there are no known risks from exposure to RF emissions from wireless phones, there is no reason to believe that accessories that claim to shield the head from those emissions reduce risks. Some products that claim to shield the user from RF absorption use special phone cases, while others involve nothing more than a metallic accessory attached to the phone. Studies have shown that these products generally do not work as advertised. Unlike “hand-free” kits, these so-called “shields”

may interfere with proper operation of the phone. The phone may be forced to boost its power to compensate, leading to an increase in RF absorption. In February 2002, the Federal trade Commission (FTC) charged two companies that sold devices that claimed to protect wireless phone users from radiation with making false and unsubstantiated claims. According to FTC, these defendants lacked a reasonable basis to substantiate their claim.

9. What about wireless phone interference with medical equipment?

Radio frequency energy (RF) from wireless phones can interact with some electronic devices. For this reason, FDA helped develop a detailed test method to measure electromagnetic interference (EMI) of implanted cardiac pacemakers and defibrillators from wireless telephones. This test method is now part of a standard sponsored by the Association for the Advancement of Medical instrumentation (AAMI). The final draft, a joint effort by FDA, medical device manufacturers, and many other groups, was completed in late 2000. This standard will allow manufacturers to ensure that cardiac pacemakers and defibrillators are safe from wireless phone EMI.

FDA has tested hearing aids for interference from handheld wireless phones and helped develop a voluntary standard sponsored by the Institute of Electrical and Electronic Engineers (IEEE). This standard specifies test methods and performance requirements for hearing aids and wireless phones so that no interference occurs when a person uses a compatible phone and a compatible hearing aid at the same time. This standard was approved by the IEEE in 2000.

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

10. What are the results of the research done already?

The research done thus far has produced conflicting results, and many studies have suffered from flaws in their research methods. Animal experiments investigating the effects of radiofrequency 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.

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

A combination of laboratory studies and epidemiological studies of people actually using wireless phones would provide some of the data that are needed. Lifetime animal exposure studies could be completed in a few years. However, very large numbers of animals would be needed to provide reliable proof of a cancer promoting effect if one exists. Epidemiological studies can provide data that is directly applicable to human populations, but 10 or more years follow-up may be needed to provide answers about some health effects, such as cancer. This is because the interval between the time of exposure to a cancer-causing agent and the time tumors develop - if they do - may be many, many years. The interpretation of epidemiological studies is hampered by difficulties in measuring actual RF exposure during day-to-day use of wireless phones. Many factors affect this measurement, such as the angle at which the phone is held, or which model of phone is used.

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

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

FCC RF Safety Program:
http://www.fcc.gov/oet/rfsafety/

Environmental Protection Agency (EPA):
http://www.epa.gov/radiation/

Occupational Safety and Health Administration's (OSHA):
http://www.osha-slc.gov/SLTC/radiofrequencyradiation/index.html

National Institute for Occupational Safety and Health (NIOSH):
http://www.cdc.gov/niosh/emfpg.html

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

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

National Radiation Protection Board (UK):
http://www.nrpb.org.uk

Updated 4/3/2002: US Food and Drug Administration
http://www.fda.gov/cellphones

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[080802]

Glossary

To help you understand the main technical terms and abbreviations used in this booklet, and to take full advantage of the features of your mobile phone, here are a few definitions:

Active folder

Ability to answer a call simply by opening the phone.

Call barring

Ability to restrict outgoing and incoming calls.

Call diverting

Ability to reroute calls to another number.

Call holding

Ability to put one call on standby while answering or making another call; you can then switch between the two calls, as required.

Call waiting

Informs you that you have an incoming call when you are engaged on another call.

Caller line identification services (Caller ID)

Services allowing subscribers to view or block the telephone numbers of callers.

EMS (Enhanced Message Service)

An adaptation of the Short Message Service (SMS) that allows you to send and receive ring tones and the service provider's logo, as well as combinations of simple media to and from EMS-compliant handsets. Because EMS is based on SMS, it can use SMS centres the same way that SMS does. EMS works on all Global System for Mobile communications (GSM) networks. EMS senders can use text, melodies, photos, sounds, and animations to enhance the expressive power of messages that are limited by the display constraints of mobile devices.

GPRS (General Packet Radio Service)

New non-voice value-added service that allows information to be sent and received across a mobile telephone network. GPRS provides continuous connection to the Internet for mobile phone and computer users. It is based on the Global System for Mobile Communication (GSM) circuit-switched cellular phone connections and the Short Message Service (SMS).

GSM (Global System for Mobile Communication)

International standard for cellular communication, guaranteeing compatibility between the various network operators. GSM covers most European countries and many other parts of the world.

Java

Programming language generating applications that can run on all hardware platforms, whether small, medium or large, without modification. It has been promoted for and geared heavily to the Web, both for public Web sites and Intranets. When a Java program runs from a Web page, it is called a *Java applet*. When it is run on a mobile phone or pager, it is called a MIDlet.

MMS (Multimedia Message Service)

A message service for the mobile environment, standardized by the WAP Forum and the 3rd Generation Partnership Program (3GPP). For phone users, MMS is similar to Short Message Service (SMS)-it provides automatic, immediate delivery of user-created content from phone to phone. The message addressing used is primarily phone numbers, thus the traffic goes from phone to phone. MMS also provides support for e-mail addressing, so that messages can be sent by e-mail. In addition to the text content of SMS, MMS messages can contain still images, voice or audio clips, and also video clips and presentation information.

Multi-party calling

Ability to establish a conference call involving up to five additional parties.

Phone password

Security code used to unlock the phone when you have selected the option to lock it automatically each time it switches on.

PIN (Personal Identification Number)

Security code that protects the phone against unauthorised use. The PIN is supplied by the service provider with the SIM card. It may be a four to eight-digit number and can be changed, as required.

Proxy server

A proxy server resides between a Web client, such as a web browser, and a real Web server and acts as an intermediary between them. When some people browse a web site, their browser is not actually connecting to the web server. The request from their browser goes to a proxy server, and the proxy server makes the request to the web server.

A proxy server can improve performance for groups of users because it caches the results of all requests for a certain amount of time. If a user requests a web page that it already loaded for another user, it reloads the page instead of forwarding the request to the Web server, which can be a time-consuming operation.

PUK (PIN Unblocking Key)

Security code used to unlock the phone when an incorrect PIN has been entered three times in succession. The eight-digit number is supplied by the service provider with the SIM card.

Roaming

Use of your phone when you are outside your home area (when travelling for example).

SDN (Service Dialling Numbers)

Telephone numbers supplied by your network provider and giving access to special services, such as voice mail, directory inquiries, customer support and emergency services.

SIM (Subscriber Identification Module)

Card containing a chip with all the information required to operate the phone (network and memory information, as well as the subscriber's personal data). The SIM card fits into a small slot on the back of the phone and is protected by the battery.

SMS (Short Message Service)

Network service sending and receiving messages to and from another subscriber without having to speak to the correspondent. The message created or received can be displayed, received, edited or sent.

Soft keys

Two keys marked [...] and [...] on the phone, the purpose of which:

- varies according to the function that you are currently using.
- is indicated on the bottom line of the display just above the corresponding key.

Tri band

Ability to handle any of the following types of network; GSM 900, GSM 1800, combined GSM 900/ 1800 and GSM 1900 MHz bands, for greater call success and wider roaming.

Your phone automatically searches for the last network used. If, for any reason, this network is unavailable, your phone will attempt to register with a different network.

Uni-code encoding

A character coding system designed to support the worldwide interchange, processing, and display of the written text of the diverse languages and technical disciplines of the world. Uni-code encoding provides data transmission to any other platforms without corruption, especially when you use special Alphabet that are used for languages other than English. Please refer to the following table for the major characters requiring Uni-code encoding:

À	Á	Â	Ã	á	â	ã		
È	Ê	Ë	ê	ë				
Ì	Í	Î	Ï	í	î	ï		
Ò	Ó	Ô	Õ	Ő	Ø	๑	๑	ő
Ù	Ú	Û	Ű	ù	ú	ű	Ý	ÿ
®	¬	«	»	©	°	¢		
þ	÷	ð	ç	Þ	×	Đ		

To change the character encoding type in your phone, use the **Character support** menu. Keep in mind that the maximum number of characters which can be in a message will be reduced to approximately half in length if you enter text using Uni-code characters.

Voice mail

Computerised answering service that automatically answers your calls when you are not available, plays a greeting (optionally in your own voice) and records a message.

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SGH-E880 GPRS Telephone

Quick reference card

Access the menu functions	① Press the **Menu** soft key. ② Scroll by pressing the Navigation keys through the list of the menus until you reach the menu you want. ③ Press the **Select** soft key. ④ Scroll by pressing the Up and Down keys through the list of the options until the one you want is selected. ⑤ Press the **Select** soft key.
Each of the two soft keys (and) performs the function indicated by the text above it, on the bottom line of the display.	

Switch on/off	Press and hold the key.
Make a call	① Enter the number. ② Press the key.
End a call	Briefly press the key.
View missed calls immediately after missing them	① Open the phone and press the **View** soft key. ② Scroll by pressing the Up and Down keys through the missed calls. ③ To return the call, press the key.
Answer a call	Open the phone or Press the key.
Adjust the volume	Press the ▲ or ▼ key on the left side of the phone.

Store numbers in Phonebook	• In the phone's memory ① Enter the number and press the **Save** soft key. ② Select **Phone**. ③ Select a type icon. ④ Scroll through the items using the Up or Down key, and enter information or press the Left or Right key. (Last name/First name/Mobile/Home/ Office/Fax/Other/Email/ Graphic ID/Alert/Group/ Notes) ⑤ Press the **Save** soft key. • On the SIM card ① Enter the number and press the **Save** soft key. ② Select **SIM**. ③ Enter the name. ④ Press the **Save** soft key.

Search for a number in Phonebook	① Press the **Name** soft key. ② Enter the first few letters of the name. ③ To scroll through the names, press the Up or Down key. ④ Press the *i* key. ⑤ To scroll through the numbers, press the Up or Down key. ⑥ Press the key to dial.
Take a Photo	• With the phone open ① In Idle mode, press and hold the Camera key. ② Press the *i* key. • With the phone closed ① Press and hold the Camera key. ② Press the Camera key.

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