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

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Samsung SGH-Z500
User Manual

Welcome

Congratulations on choosing the Samsung SGH-Z500.

Your new Samsung SGH-Z110V uses 3G (3rd Generation) technology, also known as UMTS. This technology allows fast data connections similar to broadband speeds, enabling video capture using its built-in camcorder, and sending and receiving video, including video calls.

The SGH-Z110V features today's most advanced technology including a built-in rotating digital camera of 1 Mega pixel resultion and high-quality TFT colour screen that reproduces 260,000 different colour shades (four times more than other colour screens). It also features 64 polyphonic stereophonic ringtones.

Most features are already enabled through the Vodafone network.

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Some of the contents in this User's Guide may differ from your phone, depending on your service provider or on the software installed.

Improvements and changes to this User's Guide due to typographical errors, inaccuracies of current information, or improvement of software or hardware, may be made by Samsung without notice.

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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 the 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 the area you are in and always switch off your phone whenever it is forbidden to use it, or when it may cause interference or danger (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 the necessary information as accurately as possible. Do not cut off 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.

Qualified service

Only qualified service personnel may install or repair your phone.

For more detailed safety information, see "Health and safety information" on page 115.

CAUTION

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

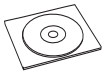
DISPOSE USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

Unpacking

Your package contains the following items:

Phone

Travel charger



Batteries

Software CD-ROM

Owner's manual

Data cable

Hand strap

T-Flash

In addition, you can obtain the following accessories for your phone from your local Samsung dealer. Accessories are also available for you in all Vodafone shops.

- Standard / Extended battery
- Battery holder
- Travel charger
- Car charger
- Stylish handsfree car kit
- Car cradle
- Holster charger
- Headset
- PC data link kit
- MMC (Multi-Media Card), MMC adapter
- Hand strap

Notes:

- Use only the supplied or an approved Headset for the Z500 model. The device comes with two batteries in the package. The larger battery has a higher capacity.
- The items supplied with your phone and available accessories may be different, depending on your country.

Your phone

Phone layout

The following illustrations show the main elements of your phone:

Closed

Open

Key	Description
(soft keys)	Performs the functions indicated by the text above them, on the bottom line of the display.
	In menu mode: scrolls through the menu options. In idle mode: the navigation key, Up, Down, Right, and Lift key, allow you to access your favourite menu options as shortcuts. For further details about shortcuts, see page 98.
	In menu mode: selects the highlighted menu or option. In idle mode: enters the main menu.
	Makes or answers a call. In idle mode: accesses call records.
	Lets you open the Call, Messages, or Vodafone live! applications without quitting the current application.

Key	Description (continued)
	Makes a video call.
	Deletes entered numbers or text.
	Ends a call. Switches the phone on and off when held down. In menu mode: exits the current screen and takes you back to idle mode.
~	Enters numbers, letters, and some special characters.
	Used for various purposes in different functions. The * key inserts a pause when held down while entering a number. In idle mode: the # key enters or exits silent mode when held down.

Key	Description (continued)
	(on the left side of the phone) During a call: adjusts the earpiece volume. In idle mode with the handset open: adjusts the key volume. In the idle mode with the handset closed: turns on the external display's backlight when held down. The volume keys on the left side of the phone also turn the picture upside down / mirror image while in camera mode or during a video telephone call.
	(on the right side of the phone) Rejects incoming calls when the handset is closed.

Display

Display layout

The display has three areas.

Area	Description
First line	Displays various icons (see page 11).
Middle	Displays messages, instructions, and any information that you enter: the number you are dialling, for example.
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 better the signal.
	Informs you which calling mode you are in. • : A call is in progress. • : A call is impossible. • : A video call is in progress. • : A video call has been disconnected.
	Informs you whether you are in a 2.5G or 3G (UMTS) network. • : You are in a 3G (UMTS) network. • : You are retrieving and sending data in a 3G (UMTS) network. This icon is animated. • : You are calling in a 3G (UMTS) network. • : You are in a 2.5G network. • : You are retrieving and sending data in a 2.5G network. This icon is animated. • : You are calling in a 2.5G network.

Icon	Description (continued)
	Appears when your phone is connected to a PC running the internet wizard or is synchronised with a PC. • : You are connected to a PC. • : This icon is animated while browsing on the PC. • : This icon is animated while synchronising with a PC.
	Appears when you set an alarm.
	Appears when you are out of your home area and have logged onto a different network (i.e., when travelling in other countries).
	Informs you of the type of message received. • : Email message • : Multimedia message • : Configuration message • : Text message • : Voice mail • : Wap push message
	Informs you a MMC is inserted in your phone.

Icon	Description (continued)
	Tells you your phone's sound profile. • : Car profile • : Silent profile • : Meeting profile • : Outdoor profile When your phone's sound profile is set to Normal profile, no profile icons will display.
	Appears when you access a secured web page or when you are connected to the network using a security protocol while loading Java MIDlets.
	Shows the level of your battery. The more bars you see, the more power you have left.

External display

Your phone has an external display on the folder cover. It indicates when you have an incoming call or message, and alerts you at the specified time when you set an alarm.

When you hold down one of the volume keys, the external display backlight illuminates.

External light

The external light is at the front of the phone. The light flashes when you are in a service area and when you switch your phone on. It also functions as a flash when you take photos.

Getting started

Inserting/Removing the SIM card

Your Vodafone SIM Card is already loaded with your subscription details, such as your PIN.

- Keep SIM cards out of the reach of small children.
- The SIM card and its contacts can easily be damaged by scratches or bending, so be careful when handling, inserting, or removing the card.
- When installing the SIM card, always make sure that the phone is switched off before you remove the battery.

Inserting the SIM card

1. If necessary, remove the battery by referring to page 15.
2. Insert and slide the SIM card under the two tabs, ensuring that the notched corner is at the top left and the gold contacts of the card face down into the phone.

Removing the SIM card

To remove the SIM card, slide the card out of the holder, as shown.

Installing/Removing/Charging the battery

Your phone is powered by a rechargeable Li-ion battery. Use only approved batteries and chargers. Ask your local Samsung dealer or contact Vodafone for further details.

Note: You must fully charge the battery before using your phone for the first time. A discharged standard battery is fully recharged in approximately 100 minutes.

Installing the battery

1. Insert the teeth on the bottom of the battery into the corresponding slots on the phone.

2. Press the battery against the back of the phone until it clicks into place.

   Make sure that the battery is properly installed before switching the phone on.

Removing the battery

1. If the phone is on, switch it off first by pressing and holding the key until the power-off animation is displayed.

2. To remove the battery, press and hold the catch above the battery. Lift the battery away from the phone.

Charging with the travel charger

Note: The phone can be used while the battery is being charged, but this causes the battery to charge more slowly.

1. Plug the travel charger connector into the bottom of the phone. Check that the arrow on the connector is facing up, as is the phone.

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

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

Charging the Battery using the battery Charger

1. Plug the travel charger connector into the bottom of the battery charger.
2. Insert the teeth on the bottom of the battery into the slot on the battery charger and press the battery until it clicks into place.
3. Plug the travel charger into a standard AC wall outlet.
4. Ensure that the charger has been disconnected either from the charger or the wall outlet before removing the battery. To remove the battery, push and hold the catch on the charger and lift the battery away.

Low battery indicator

When the battery is weak and only a few minutes of talk time remain, the battery sensor informs you in the following ways:

- An empty battery icon flashes ( ).
- You hear a warning tone.
- A message is briefly shown on the display. After 5 minutes, the message is again briefly shown. The message will appear one last time just before the phone automatically switches off.

When the battery becomes too weak for the phone to operate, it switches off automatically.

Adding an expansion card

An expansion card (sold separately) increased the variety of tasks you can do and the amount of space you have for storing software and data on your phone. Your phone is compatible with MMC (Multi Media Card) expansion cards.

Inserting a card

1. Insert the card into the expansion card slot with the label side facing up.
2. Push the card in until it locks into place.

Removing a card

To remove a expansion card, Slide the card out of the expansion card slot, as shown.

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 for a PIN, enter the PIN code and press the **Confirm** soft key. For further details, see page 124.

   The phone begins searching for your network. When it finds the network, you will see the network operator's name. You can make or

receive a call only when connected to a network.

Note: To change the language, use the **Language** menu (**Menu 9-3-4**); for further details, see page 97.

4. To switch the phone off, press and hold the key until the power-off animation displays.

Selecting functions and options

You can select different functions and option menus using the two soft keys (and).

The roles of the soft keys vary according to the phone feature you're using. To see what action will occur or which menu will be accessed by pressing them, look at the bottom line of the display (just above each soft key).

Example:

Press the left soft key to access the Messages main menu.

Press the right soft key to access Vodafone live!.

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**/**Save** soft key or the **OK** key. If it is numbered, you can press the corresponding number key.
scroll up or down through the menus or options	Up or Down scroll key.
scroll left or right through the menus or options	Left or Right scroll key.
move back up one level in the structure	**Back** soft key.
return to idle mode	**Back** soft key or the key.

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

Using an option list

When you press the **Options** soft key in a function, a list of available options displays.

If the display cannot show all of the available options, an Up or Down arrow shows that you can scroll through the rest of the list.

To	Press the
scroll through the list	Up or Down scroll key.
select the option highlighted	**OK** key, **Select** soft key or the corresponding number key.
exit the menu and return to the previous screen	**Back** soft key.

When an option has sub-options, an arrow is shown on the right.

Press the **Select** soft key or the Right scroll key and the sub-option list appears. You can use it in the same way as a normal option list.

To exit the sub-option list, press the Left scroll key or the **Back** soft key.

Switching applications

When you press the Application switch key ( ), you can quickly switch to the Call, Messages, or Vodafone live! applications – without losing your place in whatever other application or menu you're using at the time.

The coloured icon means an application is running, and grey means it's not running. Scroll through **Call**, **Messages**, and **Vodafone live!** using the Left and Right scroll keys and press the **Select** soft key to launch the application. Choose **End all?** to end the applications.

For example, you can be making an entry in the Organiser, then use the Application switch key to open **Call** to make a phone call. When you've finished, you can then choose **Back** to return to your Organiser entry.

Call functions

Making a call

Using the number keypad

When the idle screen displays, enter the area code and phone number, and press the key.

Correcting the number

To clear the	Press
last digit displayed	the **C** key.
whole display	and hold the **C** key for more than one second.

Making an international call

1. Press and hold down the **0** key for the international prefix. The + character appears.
2. Enter the country code, area code, and phone number and press the key.

Using call records

Your phone stores records of dialled, received, and missed calls chronologically. The last call is saved in the first position.

To recall any of these numbers:

1. In idle mode, press the key.
2. Press the Left or Right scroll key to scroll to the desired type of call; All calls, Missed, Dialled, or received.
3. Use the Up and Down scroll keys to scroll through the list until the number highlights.
4. To dial the number, press the key.

You can also use the **Call log** menu (**Menu 8.3**). See page 89.

Making a call using contacts

You can store contact information, such as names and phone numbers that you use regularly, in the SIM card and the phone's memory. This information is stored in one list, called Contacts. For more information about adding contacts, see page 85.

1. Find the number you want to dial.

   For further details about searching for a number, see page 84.

2. To dial the number, press the key.

Viewing missed calls

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

If you have a subscription that includes Caller Line Identification (CLI) and you are unable to answer a call for any reason, you can find out who was calling you and then call the person back.

To view the missed call immediately:

1. Open the folder. The pop-up window shows that you have missed calls.

2. If there is more than one number, select the number you want to phone back and press the key.

To use the missed call options, see page 89.

Making a call using a pause

When you call automated systems, like banking services, you are often required to enter a password or account number. Instead of manually entering the numbers each time, you can enter them before dialling, separated by a pause.

1. In idle mode, enter the first number of a service, such as the bank's teleservice number.

2. Press and hold the * key to insert a pause.

   A "P" appears, meaning that a pause will occur at that point in the dialling sequence.

3. Enter the number that needs to follow the pause, such as your account number.

4. Repeat steps 2 and 3 to add more pauses and numbers, if necessary.

5. Press the key to dial.

6. When prompted, press the key to send the DTMF (Dual Tone Multi-frequency) tones of the number that follows the pause.

   The number is sent to the system.

7. Repeat Step 6, as you are prompted.

Ending a call

When you want to finish your call, briefly press the key, or close the handset, or press the **End call** option in the call options.

Answering a call

When someone calls you, the phone rings and an incoming call box displays.

If the caller can be identified, the caller's phone number, or name if stored in Contacts, displays. If the incoming call is a restricted call (the caller has opted to not send his/her phone number for identification), the display shows **Withheld**; if it is unknown, the display shows **Anonymous**.

1. To answer a call, open the handset. If it is already open, press the key, the **OK** key, or the **Accept** soft key.

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

Note: You can answer a call while using the menu functions. The current operation is cancelled.

Rejecting a call

To reject an incoming call, press and hold the key on the right side of the phone.

When the phone is open, you can also press the **Reject** soft key or the key.

Adjusting the volume

If you wish to adjust the earpiece volume during a call, use keys on the left side of the phone.

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

Using these keys, you can also adjust the key tone volume in idle mode with the handset open.

Note: When a call comes in, you can mute the call ringer by pressing and holding the ▲ or ▼ key.

Accessing options during a call

Your phone provides a number of control functions that you can use during a call.

Using the loud speaker

You can speak and listen to the phone from a short distance without holding the phone to your ear.

Turn on / off the loudspeaker

1. Press the **Options** soft key.
2. Press the Up or Down key to highlight the **Loud speaker** / **Handset** option. Press the **Select** soft key.

CAUTIONS: Do not hold the phone near to your ear when you use the loudspeaker, as the volume may be extremely loud.

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. Of these two calls, one is active and the other is on hold and you can switch between them.

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

Mute/Unmute key tones

You can turn the key tones off or on. If you select **Mute key tone**, your phone does not transmit any key tones, which allows you to press keys without hearing annoying key tones during a call.

Searching contacts

You can search for a number in Contacts during a call.

1. Press the **Options** soft key.
2. Press the Up or Down scroll key to select **Contacts** and press the **OK** key.
3. Enter the first few letters of the name you want to find.

   For further details about entering text, see page 32.

For further details of the Contacts feature, see page 84.

Sending DTMF tones

You can send a number to the other person during a call. The number sent will appear on the display of the other person's phone.

1. Press the **Options** soft key.
2. Press the Up or Down scroll key to select **Send DTMF** and press the **OK** key.
3. Enter the number you want to send and press the **Send** soft key.

Making a memo

You can make a memo during a normal call or conference call.

1. Press the **Options** soft key.
2. Press the Up or Down scroll key to select **Memo** and press the **OK** key.

3. Enter the memo. Use the Down scroll key to move to the date field and then enter the date.
4. When you finish entering the memo, press the **Options** soft key and select the **Save** option or press the **OK** key.

Or,

1. Enter the number(s).
2. Press the **Options** soft key.
3. Press the Up or Down scroll key to select **Save** and press the **OK** key.

For further details about entering text, see page 32.

Making a second call

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

1. Press the **Options** soft key.
2. Select **New call** and press the **OK** key.
3. Enter the phone number you want to dial and press the key, **Call** soft key, or **OK** key to make the second call.

   The first call is automatically put on hold.

Note: You can first enter a phone number and then press the **Options** soft key. Then select the **New call** option.

Or alternatively:

1. Put the current call on hold by pressing the **Hold** soft key.
2. Make the second call in the normal way.

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 the other person.

To end the current call, press the key. The call on hold is still on hold. To reactivate this call press the **Unhold** soft key.

To end both calls at one time, close the folder, or press the **Options** soft key and select **End calls**.

Answering a waiting call

You can answer an incoming call while you have a call in progress, if this service is supported by the network and you have activated the **Waiting** menu option; see page 101. Your phone alerts you to an incoming call by sounding a call waiting tone.

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

1. Press the **Accept** soft key.
2. In the select box, select **Accept** to answer the incoming call. The first call is automatically put on hold.

   If you want to end the first call, select the **End active call** or **End held call**. And then you can answer the incoming call.
3. To switch between the two calls, press the **SWAP** soft key.

To end the current call, press the key. The call on hold is automatically reactivated.

To end both calls at one time, close the folder, or press the **Options** soft key and select **End calls**.

Making a conference call

The Conference Call feature is a Vodafone service that allows up to five people to take part simultaneously in a call. You can make a conference call by making or receiving another call while you are on an active call.

Setting up the conference call

1. Call the first participant in the normal way.
2. Make a second call, referring to page 26.

   Or,

   Answer a waiting call, referring to page 26.
3. To join the first participant to the conference call, press the **Options** soft key and select **Join** using the Up and Down scroll keys.
4. Press the **OK** key.
5. To add a new person to the conference call, repeat steps 2 to 4, as needed.

Holding a private conversation with one participant

To speak privately with one person during a conference call:

1. Press the **Options** soft key and select **Split**. Press the **OK** key.
2. Press the Up or Down scroll key to scroll to the participant you want to split off and press the **OK** key.

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

You can switch between the conference call and the split call by pressing the **SWAP** soft key.

3. To return to the conference call, press the **Options** soft key and select **Join**. Press the **OK** key.

   All the conference call participants can now hear each other.

Removing one participant

1. Press the **Options** soft key and select the **Drop** option. Press the **OK** key.
2. Press the Up or Down scroll key to scroll to the participant you want to remove and press the **OK** key.

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

You can end the conference call by closing the phone or pressing the key.

Sending a text message

You can send a text message during a normal call or conference call. You can send the message to other people as well as to your current call participants.

1. Press the **Options** soft key.
2. Press the Up or Down scroll key to select **Send SMS** and press the **OK** key.

   The list of all the call participants appears.
3. Scroll to the person to whom you want to send the message and press the **OK** key.

   A check mark appears in front of the selected person. Repeat this step as needed.
4. When you have finished selecting recipients, press the **Options** soft key and select the **Write** option. Then press the **OK** key.
5. Write your message and press the **Options** soft key and select the **Send** option. Then press the **OK** key.

   For further details about entering text, see page 32.

6. Enter any other phone number to which you want to send the message.

   If you want to add more numbers, press the Down scroll key and enter a number. Repeat as needed.
7. When you finish entering the numbers, press the **Options** soft key and select the **Send** option. And then press the **OK** key.

For more information on the SMS feature, refer to page 53.

Switching the microphone off (Mute)

You can temporarily switch your phone's microphone off, so that the person you are talking to cannot hear you.

Example: You wish to say something to another person in the room but do not want the calling party to hear you.

To switch the microphone off temporarily:

1. Press the **Options** soft key.
2. Press the Up or Down scroll key to select **Mute** and press the **OK** key.

The Mute icon ( ) appears on the display and your party can no longer hear you.

To switch the microphone back on:

1. Press the **Options** soft key.
2. Press the Up or Down scroll key to select **Unmute** and press the **OK** key.

   The Mute icon disappears.

Using video call features

When in a 3G (UMTS) service area, your phone can make or receive a video call which allows you to see another person on the screen during a conversation. The other person's phone must support the video call feature.

Note: If the other person does not turn their camera on, you will not be able to see him or her. You can communicate only by voice.

Making a video call

1. In idle mode, enter a phone number to dial. You can also use phone numbers in call records.

   Or,

Turn on the camera by pressing the OK key twice.

2. Press the **Options** soft key and select the **V-Call**.

3. Use the **Options** soft key to mute the Voice, Camera (Video), Voice-Video all, or Keytone.

Note: The Video call service is a special feature of the 3G (UMTS) network. You can make and receive a video call when the 3G icon ( ) is displayed.

Receiving a video call

You can receive a video call the same as receiving a normal call, except that you can see the person on the screen. Use the **Show me** soft key to show the image of yourself to the other person.

See page 23 for details about answering a call.

Changing view options

You can change the screen mode for video calls to PIP (Picture-in-Picture). In the PIP mode, the display has a main and a sub-frame where you can see yourself on the screen, as well as the other person.

To change the screen mode during a video call, press the **View** soft key until you see the desired status. The following modes are available:

- See the other person only in the main frame
- See yourself only in the main frame
- See the other person in the main frame and yourself in the sub-frame
- See yourself in the main frame and the other person in the sub-frame

Turning your voice or video on or off

You can mute your voice or turn the video off during a video call.

During a video call, press the **Options** soft key to display the option list.

The following options are available:

Headset/Loud speaker: allows you to choose a listening methed. You can choose either Headset or Loud speaker. The default setting is Loud speaker.

Mute camera: turns the camera off. The other person can hear you, but cannot see you.

Mute voice: mutes your voice. The other person can see you, but cannot hear you.

Mute camera & voice: mutes your voice and turns the camera off. The other person cannot hear or see you.

Mute key tone: mutes your key tones.

Quality control: allows you to adjust the image quality: **Normal**, **Macro**, or **Motion**. **Macro** emphasises the picture quality and **Motion** emphasises the frame count.

Zoom: allows you to adjust the zoom ratio of the video camera.

Show (Hide) brightness: displays or hides the brightness control bar.

Effects: allows you to change the colour tone of the picture. **Sepia**, **Black&White**, **Night**, and **Normal** are available.

Show (Hide) information: shows or hides the information bar on the screen which contains information such as caller ID. This option is preset at the factory to hide so that **Show information** displays unless you change it.

End call: ends the video call.

Using the headset

With the Headset, you can make or answer a call without holding the phone.

When you connect the Headset to the jack on the left side of the phone, the button on the Headset works as listed below:

To	Press
redial the last call	the button twice in idle mode.
answer a call	and hold the button when you receive the call.
end a call	and hold the button when you have finished the call.

Entering text

You may need to enter text, when storing a name in Contacts, creating your personal greeting, or scheduling events in your calendar.

Your phone has the following text input modes:

- **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, when you press the **5** key once, J, K, or L may be displayed. The T9 mode automatically compares your keystrokes with an internal linguistic dictionary to determine the correct word, thus requiring far fewer keystrokes than the traditional ABC mode.

- **ABC mode**

  This mode allows you to enter letters by pressing the key labelled with the letter you want once, twice, three, or four times until the letter is displayed.

- **Number mode**

  This mode allows you to enter numbers.

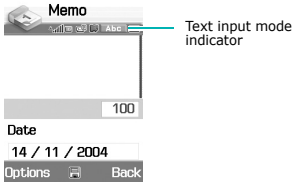
- **Symbol mode**

  This mode allows you to enter special characters, like punctuation marks.

Changing the text input mode

When you are in a field that allows characters to be entered, the text input mode indicator appears at the bottom of the display.

Example: When you write a memo, the following screen displays:



* T9 is a registered trademark of Tegic Communications, Inc. and is licensed under U.S. Patent 5,818,437/ 5,953,541/ 6,011,554.

Shortcuts to the text input modes

To switch between the T9 and ABC mode, press and hold the * key not in Number or Symbol mode but in T9 or ABC mode.

Press the * key briefly to switch input mode like below in ABC mode.

Abc > ABC > abc > 123 > SYM

Press the * key briefly to switch input mode like below in T9 mode.

T9 > T9 > T9 > 123 > SYM

To change the input mode to Symbol mode, press and hold the # key.

Using T9 mode

To enter a word in the T9 mode:

1. Start entering the word by pressing the keys **2** to **9**. Press each key only once for each letter.

   Example: To enter "hello" in the T9 mode, press **4**, **3**, **5**, **5** and **6**.

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

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

3. If the word is correct, start entering the next word. Otherwise, press the **0** key to display alternative word choices for the keys that you pressed.

   Example: Both "of" and "me" have the sequence of **6** and **3**. The phone displays the most commonly used choice first.

4. Put a space between words by pressing the # key.

5. Continue entering any other words in T9 mode.

If **Spell** appears above the left soft key while you are entering text, the word does not exist in the T9 dictionary. To type words not found in the T9 mode, change the text input mode to ABC mode, or proceed as follows:

1. Press the **Spell** soft key.

2. Enter the word you want to add using ABC mode (see page 34) and press the **Add** soft key.

   The word is saved in the T9 dictionary and inserted in the input field.

3. Continue entering other words in T9 mode.

Smart punctuation

To enter periods, hyphens, or apostrophes, press the **1** key. T9 mode applies rules of grammar and inserts the correct punctuation.

Changing the letter case

To change the letter case of the next letters that you type, press the * key. There are three cases:

- Initial Capital (T9 ⇧)
- Capital Lock (T9 ⇪)
- Lower Case (T9 abc)

Scrolling

To move the cursor to the left or right within the text, press the Left or Right scroll key.

Clearing letters and words

To delete letters, press the **C** key when the cursor is immediately to the right of the letter you want to delete. Press and hold down the **C** key to clear the display.

Using ABC mode

When entering letters in ABC mode, press the key labelled with the letter you want:

- Once for the first letter

- Twice for the second letter

- And so on

Example: To display the letter "c", quickly press the **2** key three times. To display the letter "k", press the **5** key twice. For this reason, this method is called Multi-tap typing.

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 a few seconds for the cursor to automatically move to the right, or press the Right scroll key and then enter the next letter.

Refer to the table below for more information about available characters.

Key	Upper Case	Lower Case
1	.,?/!'@_-:1	.,?/!'@_-:1
2	ABCÅÄÀ ÆΓ2	abcåäàæΓ2
3	DEFÉΔΦ3	defèéΦ3
4	GHIΘΨ4	ghiìΘΨ4
5	JKLΛ5	jklΛç5
6	MNOÖÑØÒ6	mnoöñøò6
7	PQRSΠΣΞ7	pqrsßΣΞ7
8	TUVÜÙ8	tuvùü8
9	WXYZΩ9	wxyzΩ9
0	+=<>€£$%&¥¤0	+=<>€£$%&¥¤0

Note: When you write a text message and you select the **GSM alphabet** option in **Character support** (see page 66), the following GSM alphabet characters are available:

Key	Upper Case	Lower Case
1	.,?/!'@_-:1	.,?/!'@_-:1
2	ABCÅÄÀæΓ2	abcåäàæΓ2
3	DEFÉΔΦ3	defèéΦ3
4	GHIΘΨ4	ghiìΘΨ4
5	JKLΛ5	jklΛç5
6	MNOÖÑØ6	mnoöñøò6
7	PQRSΠΣΞ7	pqrsßΣΞ7
8	TUVÜ8	tuvùü8
9	WXYZΩ9	wxyzΩ9
0	+=<>€£$%&¥¤0	+=<>€£$%&¥¤0

Changing the letter case

To change the letter case of the next letters that you type, press the * key. There are three cases:

- Initial Capital (Abc)
- Capital Lock (ABC)
- Lower Case (abc)

Inserting a Space

To insert a space between words, press the # key.

Scrolling

To move the cursor to the left or right within the text, press the Left or Right scroll key.

Clearing letters and words

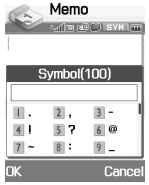
To delete letters, press the **C** key when the cursor is immediately to the right of the letter you want to delete. Press and hold the **C** key down to clear the display.

Using number mode

You can enter numbers in Number mode. Press the keys corresponding to the required digits.

Using symbol mode

You can insert symbols into a text message. The text message you've entered is shown in the symbol entering field. Move the cursor to where you want to enter a symbol using the Left or Right scroll key.



To	Press the
display more symbols	Up or Down scroll key.
select a symbol	corresponding number key. The selected symbol displays in the input box.
clear a symbol from the input box	**C** key.
insert the edited message in the symbol entering field into your text	**OK** key.

Using menu functions

Your phone offers a range of functions that allow you to tailor the phone to your needs. These functions are arranged in menus and sub-menus.

The menus and sub-menus can be accessed by scrolling using the scroll keys or by using the shortcuts.

Accessing a menu function by scrolling

1. In idle mode, press the **OK** key to access the menu.
2. Scroll using the scroll keys to reach the required application menu. Press the **OK** key to enter the menu.
3. If the menu contains sub-menus, you can access them by scrolling using the Up and Down scroll keys and pressing the **Select** soft key.

   If the menu that you have selected contains further options, repeat the same procedure.
4.

To	Press the
scroll through the menus	Up or Down scroll key.
confirm the chosen setting	**Select** or **Save** soft key or the **OK** key.
return to the previous menu level	**Back** soft key.
exit the menu without changing the settings	key or the **Back** soft key, if available.

Example: Changing the language display

1. When the idle screen is displayed, press the **OK** key to access the menu.

   The startup screen of the **Camera** menu is displayed.

2. Scroll through the menus by pressing the scroll keys until you reach the **Settings** menu. To access the **Settings** menu, press the **OK** key.

3. To access the **Phone settings** menu, press the **Select** soft key or **OK** key.

4. Scroll through the sub-menus by pressing the Up or Down scroll key, then use either the **Select** soft key or the **OK** key to choose your language.

5. Press the **OK** key when Screen Text is highlighted.

6. Scroll through the list of languages by pressing the Up or Down scroll key until the appropriate one is highlighted. Press the **Select** soft key or the **OK** key.

7. Press the **Save** soft key to save the setting in the Language screen. Otherwise press the **Back** soft key.

8. Press the key to exit the menu.

Shortcuts to menu functions

Some menus, sub-menus, and options can be quickly accessed by using their shortcut numbers. Simply press the **OK** key and enter the number.

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

Example: Accessing the **Language** menu option.

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

List of menu functions

The following list shows the menu structure available and indicates the:

- number assigned to each option
- page on which you can find a description of each feature

1. Game & More (see page 42)

2. Vodafone live! (see page 43)

3. Applications (see page 47)

4. Messages (see page 53)

- 4.1 Create message
  - 4.1.1 MMS
  - 4.1.2 SMS
  - 4.1.3 Email
- 4.2 Inbox
- 4.3 Drafts
- 4.4 Sentbox
- 4.5 Email
- 4.6 Call voicemail
- 4.7 Templates
- 4.8 Broadcast
- 4.9 Delete all
- 4.0 Settings
  - 4.0.1 MMS
  - 4.0.2 SMS
  - 4.0.3 Email
  - 4.0.4 Voice mail
  - 4.0.5 Push msg.
- 4.* Memory status

5. Camera (see page 69)

6. My Items (see page 74)

7. Organiser (see page 79)

- 7.1 Calendar
- 7.2 Week view
- 7.3 Today's event
- 7.4 Schedule
- 7.5 Anniversary
- 7.6 Task list
- 7.7 Memo
- 7.8 Missed event alarm
- 7.9 Memory status

8. Contacts (see page 84)

- 8.1 Search contact
- 8.2 Add contact
- 8.3 Call log
  - 8.3.1 Missed calls
  - 8.3.2 Dialled calls
  - 8.3.3 Received calls
  - 8.3.4 All calls
  - 8.3.5 Data counter
  - 8.3.6 Calls cost
  - 8.3.7 Calls time
- 8.4 Groups
- 8.5 Speed dial
- 8.6 My contact details
- 8.7 Copy all
- 8.8 Settings
- 8.9 Memory status

9. Settings (see page 94)

- 9.1 Phone profiles
- 9.2 Display settings
  - 9.2.1 Greeting message
  - 9.2.2 Wallpaper
  - 9.2.3 Sub LCD
- 9.3 Phone settings
  - 9.3.1 LCD brightness
  - 9.3.2 Backlight
  - 9.3.3 Ext. light
  - 9.3.4 Language
  - 9.3.5 Infrared
  - 9.3.6 Shortcuts
  - 9.3.7 Active folder
  - 9.3.8 Anykey answer
- 9.4 Call settings
  - 9.4.1 Caller ID
  - 9.4.2 Diverting
  - 9.4.3 Barring
  - 9.4.4 Waiting
  - 9.4.5 Auto redial
  - 9.4.6 Closed user group
- 9.5 Video call settings
- 9.6 Time & date
- 9.7 Network settings
  - 9.7.1 Network selection
  - 9.7.2 Network mode
- 9.8 Connections
- 9.9 Security
  - 9.9.1 Phone lock
  - 9.9.2 SIM lock
  - 9.9.3 PIN lock
  - 9.9.4 Fixed dialling mode
  - 9.9.5 Change phone password
  - 9.9.6 Privacy lock
  - 9.9.7 Change PIN code
  - 9.9.8 Change PIN2 code
- 9.0 Own number
- 9.* Memory status
- 9.# Master reset

Game & More

In **Game & More** menu, you can play the games which came pre-installed on your phone. You can also download new games that are compatible with your phone.

Vodafone live!

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

Navigating the browser

To	Press the
scroll through browser items	scroll keys.
scroll up or down pages	volume keys
select the item highlighted	**OK** key.
select a numbered item	corresponding numeric key.
return to the previous page	**Back** soft key, or press the **Options** soft key and select **History**.
return to the startup homepage	**Options** soft key and select **Go to homepage**.

Entering text in the browser

When prompted, you can enter letters, numbers, or symbols the same way as in phone mode. See page 32 for more information about entering characters.

Using the browser menus

In the browser, press the **Options** soft key to use the following options:

Go to: takes you back at any time to the Vodafone live! homepage.

Reload page: reloads the current page with updated information.

Go to homepage: sends you back to the home page.

Go to URL: allows you to manually enter the URL address of the web page you want to access.

Add bookmark: allows you to add the current page to your bookmark list.

View bookmarks: shows you the bookmark list.

Send URL: allows you to send the URL as a text message, or as an e-mail.

Save image: saves the image of the current page.

Settings: allows you to change the settings for connecting to the Wireless Web. For further details, see page 45.

Empty cache: clears information stored in the cache, which is the phone's temporary memory used to store the most recently accessed web pages. After you have accessed confidential information requiring passwords like your bank account, you need to empty the cache. When a warning message appears, press the **Yes** soft key to clear the information.

Disconnect: disconnects from the network.

History: shows URLs previously visited.

Using bookmarks

Bookmarks save you time by reducing the number of steps it takes to access a web page. You can bookmark many individual pages for easy access at a later time.

Bookmarking a web page

1. Go to the page that you want to bookmark and press the **Options** soft key.
2. Scroll to **Add bookmark** and press the **OK** key.
3. Enter the title for the bookmark and press the **Save** soft key.

Accessing a bookmarked web page

1. Press the **Links** soft key on the startup screen of the Vodafone live! menu.

   Or,

   Press the **Options** soft key on any web page. Scroll to **View bookmarks** and press the **OK** key.

2. Scroll to a bookmark item and press the **OK** key.

Using bookmark options

On the bookmark list, press the **Options** soft key to use the following options:

Go to: allows you to access the corresponding web page.

Go to homepage: sends you back to the home page.

Edit bookmark: allows you to change the title and/or URL address of the selected bookmark item.

Add bookmark: allows you to add a new bookmark.

Send URL: allows you to send the URL by short message, multimedia message, or e-mail.

Delete: deletes the selected bookmark.

Delete all: deletes all bookmarks.

Settings: allows you to change the settings for connecting to the Wireless Web. For further details, see below.

Advanced: clears information stored in the cache or cookie, which is the phone's temporary memory used to store the most recently accessed web pages. After you have accessed confidential information requiring passwords like your bank account, you need to empty the cache. When a warning message appears, press the **Yes** soft key to clear the information.

Setting up the browser

Note: You do not need to change the settings unless your network operator requests it. If you change them without the operator's instructions, you may not be able to use the browser.

Contact your service provider for details and parameters for each option.

To change the WAP settings:

1. Press the **Options** soft key on any web page.
2. Scroll to **Settings** and press the **OK** key.

   The access points display.

   Note: Some access points are not able to be changed by the service provider.

3. Scroll to the access point that you want to use and press the **OK** key to change current access point.

To edit or make access points, select the setting set you want at step 4 and then press the **Options** soft key to use the following options:

Select: saves your changes.

Edit/**New**: edits the selected Set or makes a new Set. For more information, see "Connections (Menu 9-8)" on page 105.

Delete: deletes the selected Set when it is not in use.

Rename: changes the name of the Set.

Applications

Using the **Applications** menu, you can use several popular applications, such as a media player, voice recorder, calculator, converter, world clock, and alarms.

Using applications

1. Press the Left or Right scroll key to select an application folder, **Applications**, or **Alarms**.
2. Press the Up or Down scroll key to select an application.
3. Press the **OK** key to start the application.

SIM-AT (SIM Application Toolkit)

If you use a SIM card that provides additional services, the SIM-AT menu displays. For further details, see your SIM card instructions.

Shown only if it is supported by your SIM card.

Media player

Media Player plays audio and video files you download or stream to the phone. You can listen to music or watch a movie with Media Player.

It is used when:

- you view a media file in the **My Items** menu.
- you want to play a sound file or a video in the browser.

Playing a file using media player

1. On the screen of Media Player, the screen displays showing files available in Media Player.

2. Press the Up or Down scroll key to select the file you want to play and press the **OK** key.

   The selected audio or video file plays on Media Player.

3.

To	Press the
pause	**OK** key.
resume playing	**OK** key again.
adjust the volume level	volume keys.
exit Media Player	**Back** soft key.

When the control bar is shown, you can scroll to the different control buttons by pressing the Left or Right scroll key and press the **OK** key to select the button.

: plays or resumes (if paused).

: stops playing.

: pauses playing.

: fast rewinds while holding the **OK** key. Plays when you release the **OK** key.

: fast forwards while holding the **OK** key. Plays when you release the **OK** key.

When you press the **Options** soft key while a file is playing, the following options are available:

Resume: recommences playing.

Stop: stops playing.

Send:

- **As MMS**: allows you to send the video file as a multimedia message. For further details about sending multimedia messages, see page 53.
- **Via infrared**:allows you to send the video file to another person via the infrared port. For further details, see page 98.

Open play list: allows you to open another file or make a list of files you want to play.

My videos: You can open stored video files.

Hide/Show controller: hides or displays the control bar of Media Player.

Details: allows you to see the information about the Media Player file.

Player settings: allows you to change the settings of Media Player. For further details, see below, "Setting up Media Player".

VOD settings: sets the network access point for the VOD (Video On Demand) service.

Setting up Media Player

You can set several options for playing audio or video files on Media Player.

1. On the Media Player screen, press the **Options** soft key.

2. Press the Up or Down scroll key to scroll to **Player settings** and press the **OK** key.

3. Press the Up or Down scroll key to scroll through the options. You can select the desired status using the Left and Right scroll keys.

   - **Repeat**: allows you to set Media Player to repeatedly play all of the files or only one file. Selecting **None** means that the file is played just once.
   - **Play order**: allows you to set the order to **Random** or **Normal**.
   - **Volume**: allows you to adjust the volume level. This option is available only when you have already opened a file.
   - **Hide controller**: hides the Media Player control bar when you place a check mark next to this option by pressing the **OK** key. If you want the control bar to show again, remove the check mark by pressing the **OK** key.

Voice recorder

You can record sound files or listen to recorded sound files.

Press the Up or Down scroll key to control the volume.

Press the Left or Right scroll key to move through the buttons and press the **OK** key to select the button.

: starts or resumes recording.

: pauses recording.

: stops recording and saves the file.

: plays the file.

: rewinds the file.

: forwards the file.

Press the **Options** soft key to use the following options.

Play: allows you to open the voice file you have recorded.

Record: starts recording.

My sounds: opens a sound file.

Send: allows you to send the sound file as a multimedia message. For further details about sending a message, see page 53.

Record settings: allows you to set the recording file name and maximum recording time.

Calculator

You can use the phone as a 14-digit calculator. The calculator performs basic mathematical functions: additional, subtraction, multiplication, and division.

1. Enter the first figure using the number keys.

   To enter a decimal point, press the # key. You can make a number negative by pressing the Left scroll key after entering the number.

2. Press the appropriate navigation key for your calculation.

3. Enter the second figure.

4. Press the **OK** key to get the result.

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

Equal: repeats the last calculation.

Last result: shows the last calculation result.

Save to memory: saves the current digit or result to memory.

Recall memory: recalls the saved digit.

Clear memory: clears the memory.

Recall memory and Clear memory appear when the memory has previous values stored.

Converter

You can convert one type of unit to another.

Scroll to the type of conversion to be performed from **Currency**, **Length**, **Weight**, **Volume**, **Area**, and **Temperature**, and press the **OK** key.

1. Select the units to be converted by pressing the Left or Right scroll key.

2. When you enter the value to be converted, you can see the corresponding value of each unit.

   Note: You can enter a decimal point (.) by pressing the # key. You can also enter (-) by pressing the * key, but only for **Temperature**.

On the conversion screen, press the **Options** soft key to use the following options:

Clear: clears the current values.

Reverse: reverses the conversion.

In Currency converter menu, **Currency rates** option is available. you can set the currency rates.

To change currency rates:

1. Select the base currency by pressing the Left or Right scroll key.

2. Scroll to another currency by pressing the Up or Down scroll key and edit the rates.

3. Press the **Options** soft key and select the **Save** option to save the rate.

   To clear the rates for all currencies, select the **Clear all** option.

   To return to the previous screen without changing the rate, press the **Back** soft key.

World clock

You can check the time difference between your city and a selected city.

1. Select the city corresponding to your time zone by pressing the Left or Right scroll key.

   The screen shows the current time and date of several cities in the same time zone.

2. Press the Down key and select another city and its corresponding time zone by pressing the Left or Right scroll key.

Press the **Options** soft key to use the following options.

Save: allows you to save the setting.

Summer time: allows you to use daylight saving time.

Alarms

You can set alarms to ring at specific times.

To set an alarm:

1. Select the type of alarm choosing **Once alarm**, **Daily alarm**, or **Wake up alarm**.
2. Set **On** by pressing the Left or Right scroll key.
3. Move to the time field by pressing the Down scroll key and enter the time for the alarm to sound.
4. (Only for the Wake up alarm) Move to the repeat field by pressing the Down scroll key and select the repetition type between **None**, **Every day**, **Except weekend**, or **Except Sunday**.
5. Move to the alert tone field by pressing the Down scroll key. After pressing the **OK** key, you can select an alarm melody
6. Press the **Save** soft key to save it.

To deactivate an alarm:

1. Select the type of alarm choosing **Once alarm**, **Daily alarm**, or **Wake up alarm**.
2. Set **Off** by pressing the Left or Right scroll key.

Press the **Save** soft key to save the change.

To turn off the Wake up alarm:

- Press the **OK** soft key or ▢ key.
- When the Wake up alarm tone sounds, press the **Snooze** soft key to stop the alarm for five minutes, after which it will resume. You can do this a maximum of five times.

Messages

This menu allows you to create, send, read, and save messages with the Short Message Service (SMS), Multimedia Message Service (MMS), and E-mail service.

SMS is a service which allows you to send or receive text messages.

MMS is a messaging service very similar to SMS. MMS enables you to send far longer text messages than SMS - and to attach images, graphics, voice, audio, and video clips-in any combination, as a single multimedia message. You can send MMS messages to phones with MMS capability, and to any e-mail address.

You can send a photo which you have taken as a normal postcard. Please note that this service is not supported in all Vodafone networks.

Create message *(Menu 4-1)*

In this menu, you can write and send a text message, a multimedia message, or an e-mail.

Note: You can also press the **Create** soft key from the startup screen of the Messages menu to write a new message.

Writing and sending multimedia messages

When you send an MMS message with an image, a video, an audio file or text content, the entire MMS message is shown on the recipient's screen.

1. On the **Create message** screen, select **MMS**.
2. Enter the subject in the **Subject** text field.

   To use a preset message template stored in the **Text templates** menu, press the **Options** soft key and select the **Insert text template** option.
3. To attach an image, video, or audio file, press the scroll key to move to the **Picture or Video**, or **Audio** field and press the **OK** key. Select a file from the list and press the **Select**

soft key or the **OK** key. You can also attach a picture you have taken with the phone camera.

If you want to exchange an attached image, or audio file for another, you must first delete the currently attached file. Press **Options** and select **Remove picture/video/sound**. Press **OK**. Then attach the new file as detailed above.

If you want to send the attached image or file without an accompanying text message, after you have attached the image or file, press **OK**. Proceed directly to step 7 below.

Notes:
- If you want to add a video file to MMS, take a video file first with the **Video recorder** feature. For more information, see page 71.
- When you add a video file to a message, you can not add an audio file or write a text message. In this case you can add an audio file or write a text message by adding another page to your message. If you want to send lengthy video files of large capacity, the **Recording time** has to be set accordingly in the **For message** option. See page 72.
- The maximum size allowed for a multimedia message can differ depending upon the country.

4. Enter your message into the **Text** field.

5. If you want to use the message options while writing your message, press the **Options** soft key. Select one of the following options:
   - **Send**: allows you to send the message.
   - **Preview**: shows your message as it will be displayed on the recipient's phone. Scroll through the message by pressing the Up or Down scroll key.

     Press the **Stop** soft key and press the **Options** soft key to use the following options:

     Play: plays the preview.

     Send: allows you to send the message.

     Page duration: allows you to set how long each page of a received message displays. After the specified time, the display automatically scrolls to the next page.

     Edit colour & font: allows you to set the **Font colour**, **Font style**, and **Background colour** by pressing the Up or Down scroll key.

     Text/Image on top: allows you to change to each contents oder.

   - **Edit page**: allows you to use the following options:

     Page duration: allows you to set how long each page of a received message displays. After the specified time, the display automatically scrolls to the next page.

     Edit colour & font: allows you to chang the text style.

     Move pg forward: moves the current page to the next page.

     Move pg back: moves the current page to the previous page.
   - **Text/Image on top**: allows you to change to each contents oder.
   - **Input method**: selects an entering mode you want to use.
   - **Input language**: selects the language you want to use.
   - **Insert text template**: allows you to use one of the preset message text templates stored in the **Text templates** menu; for further details, see page 62.
   - **Edit text**: change the selected text
   - **Change picture/video/sound**: change the selected image, video, or sound.
   - **Remove text/picture/video/sound**: deletes the selected text, image, video, or sound.
   - **Save to Drafts**: saves the message as a draft. You can access it later in the **Drafts** menu; for further details, see page 61.
   - **Add page**: adds a new page.
   - **Delete page**: deletes a selected page. This option is only available if there is more than one page.
   - **Save as MMS template**: saves the message as a template. You can access it later in the **MMS templates** menu, see page 62.

6. When you finish creating the message, press the **Options** soft key and select **Send** option.

7. Enter a destination number in the **To** input box.

   If you want to use the following options, press the **Options** soft key.
   - **Send**: allows you to send the message.
   - **Contacts**: allows you to search Contacts for a number. See page 84.
   - **Change recipients**: allows you to set a recipient as Cc or Bcc.

- **Save to Drafts**: saves the message as a draft. You can access it later in the **Drafts** menu; for further details, see page 61.
- **Delete**: deletes the destination number.
- **Delete all**: deletes all destination number.
- **Sending options**: allows you to change the setting for the message transmission. For detailed information see page 64.

8. To send the message to more than one person, press the Down scroll key to move to another **To** input box.

   When you want to return to the edit mode, press the **Back** key.

9. When you finish setting the destination(s), press the **Options** soft key and select the **Send** option to send the message.

Writing and sending text messages

1. On the **Create** screen, press the **Select** soft key when **SMS** highlights.

2. Write your message.

   For more information about entering characters, see page 32.

3. If you want to use the message options while entering your message, press the **Options** soft key. Select one of the following options:
   - **Send**: allows you to send the message.
   - **Input method**: selects an entering mode you want to use.
   - **Input language**: selects the language you want to use.
   - **Insert text template**: allows you to use one of the preset message templates stored in the **Text templates** menu; for further details, see page 62.
   - **Save to Drafts**: saves the message as a draft. You can access it later in the **Drafts** menu; for further details, see page 61.
   - **Insert contact number**: allows you to add a contact to the message.
   - **Insert bookmark**: allows you to add a URL saved in the bookmark to the message.

4. When you finish writing the message, press the **Options** soft key and select the **Send** option.

5. Enter a destination number in the **To** input box.

   If you want to use the following options, press the **Options** soft key.
   - **Send**: allows you to send the message.
   - **Contacts**: allows you to search Contacts for a number. See page 84.
   - **Save to Drafts**: saves the message as a draft. You can access it later in the **Drafts** menu; for further details, see page 61.
   - **Delete**: deletes the destination number.
   - **Delete all**: deletes all destination number.
   - **Sending options**: allows you to change the setting for the message transmission.

6. To send the message to more than one person, press the Down scroll key to move to another **To** input box.

   When you want to return to edit mode, press the **Back** key.

7. When you finish setting the destination(s), press the **Options** soft key and select the **Send** option to send the message.

Writing and sending MMS postcards

Now you can send a photo from your phone as an actual postcard. The photo will be printed on a postcard and sent by mail to any postal address you wish.

Note: This menu may not be available depending upon the country.

1. On the **Create** screen, press the **Select** soft key when **MMS postcard** highlights.

2. When the **Text** field is highlighted, press the **OK** key. Enter your message.

   For more information about entering characters, see page 32.

   If you want to use the message options while entering your message, press the **Options** soft key. Select one of the following options:
   - **OK**: saves the entered greeting text.
   - **Input method**: selects an entering mode you want to use.
   - **Input language**: selects the language you want to use.
   - **Insert text template**: allows you to use one of the preset message templates stored in the **Text templates** menu; for further details, see page 62.
   - **Insert contact number**: allows you to add a contact to the message.

- **Insert bookmark**: allows you to add a URL saved in the bookmark to the message.

3. To attach an image file, press the scroll key to move to the **Picture** field and press the **OK** key. Select a file from the list and press the **OK** key.

4. When you have finished creating the message, press the **Options** soft key to use the following options.

   - **Send**: allows you to send the message.

     Enter detailed information about the recipient, such as name, additional information, street, ZIP & city, state/province, and country.

   - **Preview**: shows your message as it will be displayed on the recipient's phone. Scroll through the message by pressing the Up or Down scroll key.
   - **Edit text/Change picture**: edit a message or chage a picture of a MMS postcard.
   - **Remove text/picture**: delete a message or picture of a MMS postcard.
   - **Save to Drafts**: saves the message as a draft. You can access it later in the **Drafts** menu; for further details, see page 61.

When you finish setting the destination(s), press the **Options** soft key and select the **Send** option to send the message.

Writing and sending E-mails

1. On the **Create message** screen, press the **Select** soft key when **Email** highlights.

2. Enter your message in message box.

   For more information about entering characters, see page 32.

3. Press the Down scroll key to attach a media file, if desired, and press the **OK** key. The My Items screen displays.

4. Select a media file by pressing the scroll keys and press the **OK** key to select it. A check mark appears next to the selected file.

5. Repeat step 4 to add more files.

   Note: The maximum size allowed for files can differ depending upon the country.

6. When you have finished selecting the files, press the **Options** soft key and press the **OK** key when **Attach** highlights. You can cancel your selection by choosing **Unmark all**.

7. Press the Down scroll key and enter your message's subject.

8. If you want to use the message options while entering your message, press the **Options** soft key. Select one of the following options:

   - **Send**: allows you to send the message.
   - **Input method**: selects an entering mode you want to use.
   - **Input language**: selects the language you want to use.
   - **Insert text template**: allows you to use one of the preset message templates stored in the **Text templates** menu; for further details, see page 62.
   - **Save to Drafts**: saves the message as a draft. You can access it later in the **Drafts** menu.

9. When you have finished composing your message, press the **Options** soft key and select the **Send** option to send the message.

10. Enter a destination e-mail address in the **To** input box.

    If you want to use the following options, press the **Options** soft key.

    - **Send**: allows you to send the message.
    - **Contacts**: allows you to search Contacts for an e-mail address. See page 84.
    - **Change recipients**: allows you to set a recipient as Cc or Bcc.
    - **Save to Drafts**: saves the message as a draft. You can access it later in the **Drafts** menu; for further details, see page 61.
    - **Sending options**: allows you to change the setting for the message transmission.
    - **Delete**: deletes the destination number.
    - **Delete all**: deletes all destination number.

11. To send the message to more than one person, press the Down scroll key to move to another **To** input box.

    When you want to return to edit mode, press the **Back** key.

12. When you have finished setting the destination(s), press the **Options** soft key and select the **Send** option to send the message.

Inbox *(Menu 4-2)*

When you receive a new message, the new message icon displays, corresponding to the type of message.

- : Text message
- : Text message
- : MMS message
- : MMS notification message
- : Email message
- : WAP push message
- : Voice message
- : Network configuration information message. For this configuration message, see Configuration Message on page 60.

When you access the **Inbox** menu, the list of messages received displays with the message size, sender's address, and message subject.

Press the **Options** soft key to use the following options; the options may be different depending on the selected message type:

View: shows the message, or retrieves MMS data if the message is an MMS notification message.

Reply: allows you to reply to the sender with a text or multimedia message.

Forward: allows you to send the message to other people.

Delete: deletes the message.

Delete all: deletes all messages in **Inbox**.

Configuration Messages

You may sometimes receive a configuration message containing information about the network setting for MMS or the browser from your server. When you open a configuration message, you will see the detailed information. When you press the **OK** key, or the **Options** soft key and select the **Install** option, a popup message appears to ask you if you want to install the setting on your phone. Press the **Yes** soft key to update your phone's network configuration. You can check the new setting in the MMS or browser setting menus.

Note: The GSM setting is not supported.

Drafts *(Menu 4-3)*

In this menu, you can read, edit, and send the messages you saved as drafts.

When you access the **Drafts** menu, the list of messages you have saved displays with the recipient's address, message subject, if you entered it, and message size.

Scroll to the message you want to view and press the **OK** key. The message contents display.

Press the **Options** soft key to use options. The options may be different depending on the message type.

Sentbox *(Menu 4-4)*

Messages that you have sent can be accessed via this menu.

When you access the **Sentbox** menu, the list of messages you have sent displays with the message subject, recipient's address, and message size.

Press the **Options** soft key to use the following options; the options may be different depending on the selected message type:

View: shows the message.

Forward: allows you to send the message to other people.

Delete: deletes the message.

Delete all: deletes all of the messages in **Sentbox**.

Details: shows detailed information about the message you sent.

Email *(Menu 4-5)*

When you receive an e-mail message, the new message icon displays.

- : E-mail
- : E-mail with attachment

When you access the **Email** menu, the list of messages received displays with the message size, sender's address, and message subject.

Scroll to the message you want to view and press the **OK** key. The message displays.

Press the **Options** soft key to use the following options; the options may be different depending on the selected message type:

View: shows the e-mail message.

Reply: allows you to send a reply message to the sender.

Reply to all: allows you to reply message to the sender and all other (if any) recipients.

Forward: allows you to send the e-mail message to other people.

Download: downloads new e-mail messages to your phone.

Delete from phone: deletes the e-mail message.

Delete all: deletes all of the e-mail messages from your phone.

Delete permanently: deletes the e-mail message from the phone and server.

Details: shows detailed information about the e-mail message.

Call voicemail *(Menu 4-6)*

This menu provides you with a way of accessing your voice mailbox, if your network supports this service.

You can quickly connect to the voice server by pressing and holding the **1** key in idle mode.

Templates *(Menu 4-7)*

In this menu, you can read, edit, and send MMS templates and text templates.

When you access the **MMS templates** or **Text templates** menu in the **Templates** menu, the list of MMS templates or Text templates displays.

MMS templates

1. On the **Messages** screen, scroll to the **Templates** menu and press the **Select** soft key. Press the **Select** soft key when **MMS templates** highlights.
2. Select an MMS message template.

3. Press the **Options** soft key to use the following options:
   - **View**: shows the message.
   - **Send**: send the selected MMS template as a multimedia message.
   - **Add new**: creata new MMS templates.
   - **Edit**: edits the selected MMS template the same way you edit an MMS message. After you edit it, you can send it the same way you send an MMS message. See page 58.
   - **Delete**: deletes the message.
   - **Delete all**: deletes all of the message.

Text templates

After you have created new text template messages, you can add them to your message.

Scroll to the message you want to use by pressing the Up or Down scroll key and press the **OK** key. You can change the message. For more information about entering characters, see page 32.

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

Send: allows you to send the message. For further details about sending a message, see page 53.

Add new: allows you to add a new text template message.

Edit: allows you to change the message.

Delete: deletes the message.

Delete all: deletes all of the message.

Broadcast *(Menu 4-8)*

Delete all *(Menu 4-9)*

This menu option allows you to delete all of the messages in each message box separately. You can also delete all of your messages at one time.

1. Scroll to a message type and place a check mark next to it by pressing the **OK** key.

   Selecting **All messages** places check marks on all of the message boxes.
2. If necessary, repeat step 1 to check another type.

3. When you have finished checking, press the **Delete** soft key.
4. When a confirming message appears, press the **Yes** soft key to delete all of the messages in the type(s).

   Otherwise, press the **No** soft key.

Settings *(Menu 4-0)*

In this menu, you can set up default information for using the messaging features.

Press the Up or Down scroll key to scroll to a message type and press the **Select** soft key.

MMS settings

You can change the settings for sending or receiving MMS messages.

Sending options

Priority: allows you to change the priority level of your messages.

Expiration: allows you to specify how long your MMS centre stores your messages after sending them.

Delivery: allows you to set when a message will be sent.

Hide address: allows you to prevent your address from displaying on a recipient's phone.

Delivery report: allows you to request notification from each recipient as to whether or not your message has been delivered.

Read report: allows you to request a report from each recipient as to when your message was read by the recipient.

Keep a copy: allows you to leave a copy of your message in **Sentbox** after sending it.

Receiving options

Home network/Roaming network: allows you to set how to receive a message in each network.

- **Autodownload** : you receive multimedia messages automatically.
- **Manual**: you receive a notification message first. Then, if you choose, you can download the multimedia message.
- **Restricted** (only for Roaming network): If you select this notification, there may be a possible additional charge, depending on whether you download the message or not.

Delivery report: allows the network to inform the sender whether or not a message has been delivered to you.

Read report: allows your phone to send a message to the sender to let them know when the message was read.

Anonymous reject: allows your phone to reject messages from callers without a caller ID.

MMS profiles

You can set up information about your MMS network and select a network connection profile. In most cases, you don't need to change the settings. In case of problems, please contact your local Vodafone customer service.

Note: If you change these settings without the network operator's instructions, you may not be able to send or receive multimedia messages.

You can have several network settings. You can make changes or rename each setting by pressing the **Options** soft key, but only one setting can be active as your network setting. For more information, see "Connections (Menu 9-8)" on page 105.

Message size

You can set up the maximum file size of MMS attachment such as 30k, 100k, or 300k. This file size may differ depending on your country.

Slide interval

You can set how long each smil player page displays such as 2sec, 5sec, 10sec, or custom time. After the specified time, the display automatically scroll to the next page.

SMS settings

You can have several settings. Each setting has the following options:

Centre address: allows you to view the number of your SMS centre. This number is required when sending messages.

Expiration: allows you to set the length of time your text messages are stored at the message server while attempts are made to deliver them.

Default type: allows you to set the default message type.

Name: allows you to set the setting's name.

The following options are in the **Sending options** menu:

Reply path: allows you to set your SMS centre number as a reply path, so that the recipient can send a reply through it. The charge is billed to you.

Delivery report: the network informs you whether or not your message has been delivered.

Network selection: allows you to select a preferred data transmission method.

Keep a copy: your phone leaves a copy of your message in **Sentbox** after sending it.

Character support: allows you to select a character set when editing and sending messages.

GSM alphabet: you can compose a message using GSM characters.

Unicode: you can compose a message using Unicode characters. All GSM characters are included in the Unicode character set. However, when using Unicode, the maximum number of characters which can be entered in a message is reduced by half.

For details on the GSM and Unicode alphabets, see the tables on page 35.

Automatic: if you select **Automatic**, the phone selects the character set depending on whether you use Unicode characters or not.

Email settings

You can change the settings for sending or receiving e-mail messages.

Sending options

The following options are available:

From: allows you to set the alias name.

Sending account: allows you to select the default account that is required when you send e-mail messages.

Priority: allows you to change the priority level of your messages.

Keep a copy: allows your phone to keep a copy of your message in **Sentbox** after sending it.

Add my contact details: allows your contact information to be attached to your message.

Add signature: allow your signature text to be attached to the end of your message. You can enter text using up to 128 characters.

Receiving options

The following options are available:

Receiving option: allows you to set how to receive a message.

- **Subject only**: you receive only the subjects of e-mails. You can read the contents after downloading.
- **Normal**: you receive the full e-mail.

Set download limit: allows you to set the maximum size of an incoming e-mail and rejects e-mails when they are over the size limit.

Block address: allows you to block e-mails from particular addresses.

Block subject: allows you to block e-mails which contain the subjects you set.

E-mail profiles

You can set up information about your network and select a network connection profile. In most cases, you don't need to change the settings. In case of problems, please contact your local Vodafone customer services.

Note: If you change these settings without the network operator's instructions, you may not be able to send or receive multimedia messages.

You can have several network settings. You can make changes or rename each setting by pressing the **Options** soft key, but only one setting can be active as your network setting. For more information, see "Connections (Menu 9-8)" on page 105.

Email accounts

You can have 3 e-mail accounts. You can select and edit the accounts.

Scroll to one of the accounts by pressing the Up and Down scroll key and press the **Options** soft key. Select the **Edit** option to change the following options:

Account name: edit the access name.

SMTP server: set the SMTP (Simple Mail Transfer Protocol) server address.

POP3 server: set the POP3 server address.

My Address: enter the e-mail address you want replies to be sent to.

User name: set the login name of the server.

Password: set the login password of the server.

Use SMTP Authentication: set the SMTP authentication. This option is used with for SMTP servers that require this.

Same as POP3: set the SMTP server address same as POP3.

Voice mail settings

You can change the number of the voice mail service centre. When you press the **1** key to access your voice messages, your phone dials this number.

Memory status *(Menu 4-✱)*

You can check the memory status of each message box in your phone memory or in your SIM card.

Camera

Using the camera module built into your phone, you can take pictures or record videos of people or events. Additionally, you can send the images to other people in a multimedia message.

When the camera turns on, you can dial a number to make a video call; for further details about using the video call feature, see page 29.

Taking a picture

1. To turn on your camera, press the **OK** key twice in idle mode to select the **Camera** menu and push up you camera module if necessary.

   You can see the picture to be taken on the display.

2. Point the camera at the subject.

   To flip the picture, press the Up or Down volume key on the left side of the phone. Up volume key flips the picture upside down, while Down volume key flips the picture left to right, as a mirror image.

3. To take a picture, press the **OK** key. Or, press the **Options** soft key and press the **OK** key when **Take photo** is highlighted.

4. The photo is saved automatically and then

To	Press the
use the options	**Options** soft key. For details about the options, see below.
delete the image file	**Delete** option.
return to capture mode	**Back** soft key.
turn the camera off and return to idle mode	key. The photo is saved automatically.

When you press the **Options** soft key in Step 4, the following options are available:

Send:

- **As MMS**: allows you to send the picture as a multimedia message. For further details about sending multimedia messages, see page 53.
- **To Album**: allows you to upload the video file to its server.
- **As MMS postcard**: allows you to send the picture as a Postcard. This option may not be available depending upon the country.
- **Via infrared**:allows you to send the photo to another person via the infrared port. For further details, see page 98.

Delete: delete the picture you have taken.

Set as wallpaper: allows you to set the picture as wallpaper.

Set as caller ID: allows you to use the image as a caller ID indicator to be displayed when a call comes in from a contact.

My photos: allows you to move to the **Photos** folder in **My Items**. You can see the picture in the **Photos** folder; see page 75.

Rename: allows you to change the image file's name. For more information about entering characters, see page 32.

Taking a video file

You can use your phone just like a camcorder to record what is currently displayed on the camera screen and save it as a video file.

1. To turn on your camera, press the **OK** key twice in idle mode to select the **Camera** menu and push up you camera module if necessary.

2. When you are in camera mode, press the **Options** soft key and then select **Record video**.

   You can see the picture to be recorded on the display.

3. Press **OK** ()key to start recording. Or, press the **Options** soft key, select **Record** by pressing the Up or Down scroll key, and press the **OK** key.

4. Your phone starts recording. Recording file size can be set for up to 95KB by default.

5. While recording video:

To	Press the
pause recording	**Pause** soft key.
resume paused recording	**OK** () key.
stop recording	**OK** () key. The video is automatically saved in the **Videos** folder.
delete the video file	**Cancel** soft key.
turn the camera off and return to idle mode	key.

6. When the recording time expires, the phone automatically saves the video in the **Videos** folder in **My Items**; see page 76.

When you press the **Options** soft key after the video is saved in your phone, the following options are available:

Play: allows to open a video file you have taken.

Delete: delete the video file you have taken.

Send:

- **As MMS**: allows you to send the video as part of a multimedia message.
- **To Album**: allows you to upload the video file to its server.

Viewfinder: switches the screen to view finder mode to allow you to take another video.

My videos: You can open stored video files.

Rename: allows you to change the image file's name.

Video Mode Options

Press the **Options** soft key in the video mode:

Record: records a video.

Take photo: turns to camera mode.

My videos: You can open stored video files.

Zoom: adjusts the zoom ratio of the video camera.

Brightness: adjusts the brightness of the video.

Video settings: allows you to define the **Default name** of your choice and to adjust the quality from **Very low**, **Normal**, **High**, or **Very high**. It also allows you to set the **Recording time**. If you select the **For message** option in the **Recording time** box, you can send video files of large capacity and the quality is fixed at **Normal**.

Camera mode options

Press the **Options** soft key in camera mode:

Take photo: takes a picture.

Record video: turns to video recording mode.

V-call: allows you to use the Voice call feature. For more information about the Voice call, see page 29.

My photos: allows you to move to the **Photos** folder in **My Items**.

Zoom: allows you to set the camera zoom. Press the Up or Down key in the key to adjust the camera zoom.

Multi shot: takes a rapid series of pictures (from 3 -10).

Timer: sets the phone to take a picture at a predefined time. Once you set the time, the timer icon appears at the bottom of the screen. When you press the **OK** key, the phone takes a picture after the predefined time.

Flash: set the camera flash on or off.

Effects: allows you to change the colour tone of the picture. **Sepia**, **Mono**, **Night**, and **Normal** are available.

Brightness: adjusts the brightness of the picture.

Camera settings: allows you to set several camera settings. You can define the **Default name** of your picture and adjust the **Capture quality** between **Low**, **Normal**, **Fine**, or **Super fine**. You can also select **Image size (1152*864**, **640*480**, **320*240**, **160*120)**, **Viewfinder**, **Multi shot speed**, and **Flash mode** allows you to set the camera flash to be used automatically or not.

My items

You can enjoy various multimedia files, such as Pictures, videos, Ringtones, and sounds, using **My Items**.

Exploring multimedia files

You can use up to 5 categories of multimedia files: **Pictures**, **Videos**, **Ringtones**, **Sounds**, and **Other files**.

When you press the **OK** key and the **Select** soft key, the list of the files in the selected category displays.

Using multimedia options

On the file list in any category, you can use the following options by pressing the **Options** soft key:

View/Play/Take photo/Record video/ Record sound: shows or plays the selected file. Or, create a new file.

Send:

- **As MMS**: allows you to send a multimedia message using the multimedia file. For further details about sending multimedia messages, see page 53.
- **As MMS postcard**: allows you to send a Postcard using the multimedia file. This option may not be available depending upon the country.
- **Via infrared**:allows you to send the multimedia file to another person via the infrared port. For further details, see page 98.

Move to live! Studio: allows you to move the selected file to your live! Studio page. This option may not be available depending upon the country. For more information, see page 62.

Note: This term is used only in the United Kingdom. Other countries use "Move to Album".

Set as:

- **Set as wallpaper** (available in the **Pictures** category): allows you to use the image as the background for the sub LCD.

- **Set as ringtone** (available in the **Sounds** category): allows you to use the sound as your ringtone for voice or video calls.
- **Set as caller ID**: allows you to use the image or sound as a caller ID indicator to be displayed or played when a call comes in from a contact.

Move: allows you to move the selected file to another folder.

Delete: allows you to select **File**, **Folder**, or **All files** option to delete files.

Rename: allows you to change the file or folder name. For further details about entering characters, see page 32.

Create folder: allows you to make a new folder for storing multimedia files.

Download: allows you to download new files from the web server.

Lock/Unlock: allows you to protect the picture from deletion, or not.

Details: shows detailed information about the selected file.

Memory status: shows you the amount of memory used in the current category and the remaining memory.

Using picture files

You can use bmp, wbmp, gif, animated gif, png, or jpg image files.

Viewing an picture

1. Press the Up or Down scroll key to select the **Pictures** category. The image list displays.
2. Press the Up or Down scroll key to select an image and press the **OK** key.
3. The image viewer shows the selected file.

   Press the Left or Right scroll key to load the previous or next image file.

When viewing an image, you can use the following options by pressing the **Options** soft key:

Send: allows you to send the selected file. For more information, see **Send** on page 74.

Set as:

- **Set as wallpaper**: allows you to use the image as your wallpaper image, i.e., as the background for your idle screen.
- **Set for sub LCD**: allows you to use the image as the background for the sub LCD.

- **Set as caller ID**: allows you to use the image as a caller ID indicator to be displayed when a call comes in from a particular contact.

Move: allows you to move the selected file to another folder.

Real size: shows you the selected image in its own saved size. You can scroll through the image by pressing the navigation keys.

Slide show: allows you to view all of the images in the selected folder using the slide show feature, which shows the images one by one on full screen at 3-second intervals.

Resize: allows you to change the image size.

Retouch: allows you to apply special effect on images.

Frame: allows you to apply special frame over images.

Delete: deletes the selected file.

Rename: renames the file.

Details: shows detailed information about the file, such as file name, size, type, and many other things.

Creating a new image

From the file list of the folder, select **Take photo** and press the **OK** key or use the **Camera** application.

For further details about using the camera, refer to page 69.

Using video files

Your phone can play video files in mp4 or 3gp format.

Playing a video file

1. Press the Up or Down scroll key to select **Videos**. The video list displays.
2. Press the Up or Down scroll key to select a video file and press the **OK** key.
3. Media Player plays the selected file.

   For further details about using Media Player, see page 48.

Creating a video

From the file list in **Videos**, select **Record video** and press the **OK** key, or use the **Camera** application.

For further details about recording a video, refer to page 74.

Using music files

Your phone can play music files in mp4 and 3gp format.

Playing a music file

1. Press the Up or Down scroll key to select **Music**. The music list displays.
2. Press the Up or Down scroll key to select a music file and press the **OK** key.
3. The music plays.

   For further details about using Media Player, see page 48.

Using ringtones

You can use 64 polyphonic stereophonic melodies or ringtones.

1. Press the Up or Down scroll key to select **Ringtones**.
2. Press the Up or Down scroll key to select a file and press the **OK** key.
3. The Tone melody plays.

   Press the Up or Down scroll key or volume key to control the volume.

   Press the Left or Right scroll key to load the previous or next file.

While playing a sound, you can use the following options by pressing the **Options** soft key:

Send: allows you to send the selected file. For more information, see **Send** on page 74.

Set as ringtone: allows you to use the melody as your ringtone for voice or video calls.

Set as caller ID: allows you to use the sound as a caller ID indicator to be played when a call comes in from a particular contact.

Details: shows detailed information about the file, such as file name, size, type, and many other things.

Using sounds

You can use the Voice memo feature in this menu.

1. Press the Up or Down scroll key to select **Sounds**.
2. Press the Up or Down scroll key to select a file and press the **OK** key.
3. The Sound plays.

   Press the Up or Down scroll key or volume key to control the volume.

While playing a sound, you can use the following options by pressing the **Options** soft key:

Record settings: allows you to set the default name and recording time.

Creating a Sound

From the **Sounds** category, select the **Record sound**. Press the **OK** key or use the **Voice memo** application. The Voice memo screen displays.

For further details about using the Voice memo screen, see page 52.

Organiser

The Organiser feature allows you to view the current month as well as past or future months in calendar format. You can schedule up to 100 events in total. You can also make up to 50 anniversary, 20 task, and 20 memo notices.

Calendar *(Menu 7-1)*

The calendar displays the current month and highlights the current day.

Days with events scheduled are marked with a coloured symbol: green for scheduled items, red for anniversaries, blue for tasks, and orange for memos.

To scroll through the calendar:

- Press the Up or Down scroll key to move to the previous or next week.
- Press the Left or Right scroll key to move to the previous or next day.
- Press the volume keys to move to the previous or next month. You can also press the Left, Right, or Up scroll key when the title bar showing the month and year highlights.
- Press the **OK** key to access the highlighted date.

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

View: shows you the schedule for the selected day.

Add new: allows you to make a new **Schedule**, **Anniversary**, **Task**, or **Memo**.

Week view: shows the present week's calendar.

Go to today: shows today's calendar.

Go to date: enter a date to which you want to go and press the **Go** soft key.

Starting day: allows you to select the start day of week as Sunday or Monday.

Delete: deletes the events in the period you specify.

Delete all: deletes all of the events in your calendar.

Week view *(Menu 7-2)*

Week view shows the calendar of your events for an entire week. You can use this view to quickly review your appointments and available time slots.

Today's event *(Menu 7-3)*

When you press the **Options** soft key, the following options are available; these may be different depending on the selected event type:

View: shows you details of the event.

Add new: allows you to make a new **Schedule**, **Anniversary**, **Task**, or **Memo**.

Completed: when you have completed a task, select **Completed** to insert a check mark next to the item.

Note: If you want to remove the check mark, select the item and press the **Options** soft key. Then select **To do**.

Month view: returns to the calendar screen.

Change date: allows you to change an anniversary date.

Reschedule: allows you to change the date of an event easily. When the calendar displays, move to a new start date using the scroll keys and press the **OK** key.

Change due date: allows you to change the task's due date.

Delete: deletes the event.

Delete all: deletes all of the events for that day.

Send schedule: allows you to send the scheduled event by e-mail or via infrared.

Send task: allows you to send the task by e-mail or via infrared.

Send memo: allows you to send the memo by text message.

Schedule *(Menu 7-4)*

Press the **Options** soft key and select the **Add new** option to make a new event. See page 80 for other options.

1. Scroll through the entry fields by pressing the Up or Down scroll key. Enter information or select the settings you want.
   - **Title**: enter the title of the event. See page 32 for more information about entering characters.
   - **Details**: enter the event details.
   - **Start**: enter the start time of the event. You can move the cursor using the Left and Right scroll keys.
   - **End**: enter the end time of the event the same way as you would enter a start time.
   - **Start date**: enter the start date. You can move the cursor using the Left and Right scroll keys.
   - **End date**: enter the end date the same way as you would enter a start date.
   - **Location**: enter information about the event location.
   - **Alarm**: press the **OK** key to set an alarm to remind you of the event. Then set when the alarm will alert you: enter the number and select a unit, **min.**, **hour**, or **day**, using the Left and Right scroll keys. You can move from the number box to the time box by using the Down scroll key.
   - **Repeat**: if you are entering a recurring event, press the **OK** key and select the repeat option using the Left and Right scroll keys. Then enter the date that you wish the event to cease recurring.
   - **Expiry**: select how long the event is to be stored in your calendar.
2. When you have finished entering the event, press the **Save** soft key.

Anniversary *(Menu 7-5)*

Press the **Options** soft key and select the **Add new** option to make a new anniversary. See page 80 for the other options.

1. Scroll through the entry fields by pressing the Up or Down scroll key. Enter information or select the settings you want.
   - **Occasion**: enter the information about the occasion. See page 32 for more information about entering characters.

- **Date**: enter the date. You can move the cursor using the Left and Right scroll keys.
- **Alarm**: press the **OK** key to set an alarm to remind you of the event. To set an alarm ahead of the day required, enter the desired number of days before the event, and the time on that day that you want to be alerted. You can move the cursor using the Left and Right scroll keys.
- **Repeat every year**: press the **OK** key to mark or unmark this option.

2. When you have finished entering the anniversary details, press the **Save** soft key.

Task list *(Menu 7-6)*

Press the **Options** soft key and select **Add new** to make a new item for the Task list.

1. Scroll through the entry fields by pressing the Up or Down scroll key. Enter information or select the settings you want.
   - **Task**: enter the information about the occasion. See page 32 for more information about entering characters.
   - **Start date**: enter the start date. You can move the cursor using the Left and Right scroll keys.
   - **Due date**: enter the due date.
   - **Priority**: enter the priority, choosing 1, 2 or 3. 1 is the highest priority.
2. When you have finished entering the Task, press the **Save** soft key.

When you have completed a task from the Task list, select the item and press the **Options** soft key. Then select **Completed** to insert a check mark next to the item.

Note: When you want to remove the check mark, select the item and press the **Options** soft key. Then select **To do**.

Memo *(Menu 7-7)*

Press the **Options** soft key and select the **Add new** option to create a new memo. See page 80 for other options.

1. Scroll through the entry fields by pressing the Up or Down scroll key. Enter information or select the settings you want.
   - **Memo**: enter the memo details.
   - **Date**: enter the date.
2. When you have finished entering the memo, press the **OK** key.

Missed event alarm *(Menu 7-8)*

When the alarm sounds, you must press the **OK** soft key in the reminder window within one minute. Otherwise, the missed event alarm window will be displayed.

You can view missed events in the **Missed Event Alarm** menu.

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

View: allows you to view the selected event alarm details.

Delete: allows you to delete the selected event alarm in the list.

Delete all: allows you to delete all event alarms in the list.

Memory status *(Menu 7-9)*

You can check the memory staus for schedule, anniversary, Task list, and memo in **Organiser**. The display shows the total and used space, and the number of objects you saved.

Contacts

You can create a phonebook by saving phone numbers and names. Your phone gives you an easy way to make calls by using the phonebook numbers and names.

Search contact *(Menu 8-1)*

When you access this menu, the Search contact screen displays.

Enter the first few letters of the name you want to search for. The contact entries are listed alphabetically, starting with those that most closely match your input.

1. If necessary, press the Up or Down scroll key to find the contact you want.

2.

To	Press the
dial the number	key.
view details of the contact.	**OK** key.

When you press the **Options** soft key from the Contacts list, the following options are available:

View: shows detailed information about the contact.

Edit: allows you to edit the name or number of the contact.

Call: allows you to dial to the number.

V-call: makes a video call to the person. For further details, see page 29.

Add new contact: adds a new contact to the phone or SIM. For more information about adding a contact, see page 85.

Add new contact: allows you to add the contact number to speed dial list

Delete: deletes the selected contact.

Search groups: searches groups, see page 91.

Delete all: displays the memory locations, Phone & SIM, Phone, and SIM to delete all. Select the **Yes** soft key to delete the selected memory, otherwise select the **No** soft key.

Add contact *(Menu 8-2)*

You can add to your phonebook by saving phone numbers and the corresponding names in the memories of your SIM card and phone. You can save up to 1000 names in the phone's memory. Each name can have up to five numbers, and other personal information.

When you add a new contact, you have to select the memory location by pressing the Up and Down scroll key in the input box.

Adding a contact to the phone's memory

When you access this menu, you will see the startup screen of the Add contact menu. You can also access this screen by pressing the **Add** soft key in main menu mode.

1. Press the Up or Down scroll key to scroll through the input boxes and enter the corresponding information you want to save:
   - **First Name**/**Last Name**: enter the first and the last name of the contact. For further details about entering characters, see page 32.
   - **Mobile**( )/**Home**( )/**Work**( )/ **Fax**( )/**Etc.**( ): enter the number you want to add. The icons at the left side of each input box tell what type of number it is.
   - **Email 1/2**: enter the person's e-mail address.
   - **Group**: press the **OK** key to add the person to a group.
   - **Homepage**( ): enter the URL address of the person's home page.
   - **Memo**: enter information you need to remember about the person.
   - **Birthday**( ): enter the birthday of the contact.
   - **Postal address 1/2**: Press the **OK** key to enter the person's postal address.
2. When you have entered the information you want, press the **Options** soft key and select the **Save** option.

Adding a contact to the USIM card

1. Press the Up or Down scroll key to scroll through the input boxes and enter the corresponding information you want to save:

- **Name**: enter the name of the contact. For further details about entering characters, see page 32.
- **Phone number**: enter a phone number you want to add.
- **Email**: enter the person's e-mail address.
- **Group**: press the **OK** key to add the person to a group.

2. Press the Down scroll key to move to the location number input box and modify a number, if you want.
3. Press the **Options** soft key and select **Save** option.

Adding a contact to the SIM card

1. Enter the name of the contact.
2. Press the Down scroll key to move to the **Phone number** input box and enter a number.
3. Press the Down scroll key to move to the location number input box and modify a number, if you want.
4. Press the **Save** soft key.

Adding a contact from idle mode

1. In idle mode, enter the number to be stored.
2. Press the **Options** soft key and press the **OK** key when **Save contact to** highlights.
3. Press the Up or Down scroll key to scroll through the input boxes and enter the corresponding information you want to save. The input boxes depend on the memory type you select in the memory setting. Refer to the previous pages for subsequent steps.

Other options for phone memory type when adding contacts list

When you press the **Options** soft key from the editing view, the following options are available:

Save: saves a contact.

Special options: you can set a distinctive image and sound for a contact. Press the Up or Down scroll key to move to each field.

- **Picture**: allows you to select an image to be displayed when a call or message comes in from a contact. Press the **OK** key. You can select from icon, animation, and photo, and then choose a file from **My Items**.
- **Ring tone**: allows you to set a sound to be played when a call comes in from a contact. Press the **OK** key and select an audio file from **My Items**.
- **Msg. alert tone**: allows you to select a sound to be played when a message comes in from a contact. Press the **OK** key and select a sound file from **My Items**.

After changing the options, press the **Options** soft key and select **Save**. If you want to decline the changes and return to the default settings, select **Reset**.

Add item: allows you to add another contact number. Select one of the types, then add the number.

Delete item: deletes the selected contact item which you've added using the **Add item** option.

Change type: changes the contact type of the selected contact item. Select one of the types.

Mark/Unmark video call: activates or deactivates a video call to the selected contact number item.

Viewing contact information

You can access the details of a contact in the phone's memory and SIM by pressing the **OK** key on the Contact list.

To	Press the
enter	**OK** key
scroll through the items	Up or Down scroll key.
dial the selected number	key.
save changes after editing information	**OK** key after editing each item.
return to the Contacts list	**Back** soft key.

When you press the **Options** soft key, the following options are available:

Edit: allows you to edit the selected number and name.

Call: allows you to make a call to the person.

V-call: allows you to make a video call to the person. For further details, see page 29.

Send message: allows you to send a message to the contact. You can write a text message, create a multimedia message, write a message to which you attach a media file, or you can send MMS postcard. For more information about sending a message, see page 53.

Special options: you can set a distinctive image and sound for the contact. Press the Up or Down scroll key to move to each field.

Add to speed dial: allows you to add the contact number to speed dial list.

Copy to SIM/phone: copies the contact to the SIM or to the phone.

Send contact details: allows you to send your contact details as a an email or via infrared.

Set as default: makes the selected phone number as a default number for a contact.

Duplicate: allows you to duplicate the contact.

Paste: allows you to paste the selected number into the normal dialling mode.

Delete: deletes the selected contact.

Call log *(Menu 8-3)*

In this menu, you can view:

- missed, dialled, received calls, or all calls
- cost of your calls
- length of time of calls you have made or received

Notes:

- You can access the all calls list by pressing the key in idle mode.
- When you are not calling, but using an Headset and the phone is closed, you can see the call log on the sub LCD by pressing the button of the Headset. You can also scroll through the log by pressing the volume keys on the left side of the phone.

Missed, Dialled, Received, or All Calls

1. From the Call log screen, press the Left or Right scroll key to scroll to the type of calls you want to view.

   Each time you press the key, a list of the various call records appears. Your phone records up to the last 20 calls in each log.

   If the number is saved in Contacts, the corresponding name displays.

2. Press the Up or Down scroll key to select the call you want to view.

3.

To	Press the
dial the number	key.
return to idle mode	key.

When you press the **Options** soft key in the call log list, the following options are available:

View: shows detailed information about the call.

Call: allows you to dial to the number.

V-call: allows you to make a video call to the person. For further details, see page 29.

Save contact to: allows you to save the number in Contacts.

Send message: allows you to send a text message, multimedia message, or message with media attached to the number.

Delete: deletes the call.

Delete all: deletes all of the call records stored in the current call log.

Data counter

You can see the total size of sent and received data calls. Data calls include:

- sending and receiving multimedia messages
- sending and receiving e-mail
- browsing WAP pages
- downloading MIDlets (Java applications running on mobile phones)
- using your phone as a modem.

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

Reset: clears the selected data call log.

Reset all: clears all of the data call log.

Calls cost

This feature lets you view the cost of calls.

Notes:
- This feature may not be shown depending on your SIM card.
- This feature is not intended to be used for billing purposes.
- AOC (Advice Of Charge) information may display on call, depending on your SIM card or service provider.

1. The Call Costs screen shows you the total cost, last call costs, and cost limit.

2. While viewing the call costs, press the **Options** soft key to use the following options:
   - **Reset call costs**: allows you to reset the cost counter; first, you must enter your PIN2 code (see page 113) and then press the **Confirm** soft key.
   - **Edit cost limit**: allows you to enter the maximum cost that you authorise for your calls; first, you must enter your PIN2 code (see page 113) and then press the **Confirm** soft key.
   - **Setup currency**: allows you to set the currency of the call cost; first, you must enter your PIN2 code (see page 113) and then press the **Confirm** soft key.

Calls time

1. Press the Up or Down scroll key to scroll through the call timer for each call type.
   - **Total dialled**: total time of the voice calls you have dialled.
   - **Total received**: total time of the voice calls you have received.
   - **Total dialled**: total time of the video calls you have dialled.
   - **Total received**: total time of the video calls you have received.

2. While viewing the call time, press the **Options** soft key to use the following options:
   - **Reset**: resets the call timer.
   - **Reset all**: resets all of the call timers.

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

Groups *(Menu 8-4)*

You can manage groups. The contacts stored in the phone's memory or supplied by the USIM card can be assigned to contact groups.

Editing groups from the group list

1. When the Group list displays, if necessary press the Up or Down scroll key to scroll through the Group list to the Group you want.

2. Press the **Options** soft key from the Group list to access the following options:
   - **Add member**: allows you to add member or members to the selected group.
   - **View members**: views the Contacts list saved for this group.
   - **Add group**: you can enter a group name for a new group. You can see the new group name in the Group list.
   - **Rename group**: allows you to change the group name.
   - **Delete group**: deletes the selected group.
   - **Delete all groups**: deletes all of the groups.

Editing group item

1. When you select a group, you can see the list of names enrolled in the group.

2. If necessary press the Up or Down scroll key to scroll through the name list.

3. Press the **Options** soft key to access the **Edit group** option. This feature allows you to change members in the group. Mark and unmark names you want to add or delete using the **OK** key and press the **Save** soft key.

Speed dial *(Menu 8-5)*

You can set up to eight speed dial numbers and then dial them simply by pressing the associated number key.

Editing speed dial from the speed dial list

1. When the Speed Dial list displays, highlight one of the Speed dial numbers you want to edit by pressing the scroll key.

2. Press the **Options** soft key to access the following options:
   - **Assign**: allows you to add a speed dial number at an empty slot.
   - **View**: allows you to view detailed information about the selected speed dial entry.
   - **Call**: allows you to dial to the number.
   - **V- call**: allows you to make a video call to the number.
   - **Change**: allows you to change one entry into another.
   - **Remove**: allows you to clear the selected speed dial number.

My contact details *(Menu 8-6)*

You can store personal information, such as your first and last name, wireless phone number, home number, office number, fax number, e-mail, URL, memos, etc.

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

Save: saves your information.

Add item: allows you to add another contact number. Select one of the types then add the number.

Delete item: deletes the contact item which you've added using the **Add item** option.

Change type: changes the selected contact item's type. Select one of the types.

If you have saved one or more your contact details you will see the below optons when you press the **Options** soft key.

Edit: changes the selected contact item's information.

Send contact details: allows you to send your contact details as a an email or via infrared.

Delete: deletes the contact item which you've added using the **Add item** option.

Copy all *(Menu 8-7)*

You can copy all of the contacts stored in the SIM card to the phone memory and vice versa. When a confirming message appears, press the **Yes** soft key to copy. Otherwise, press the **No** soft key.

Settings *(Menu 8-8)*

This menu option allows you to set options for contact list. Below options are available:

Viewing settings:

- **By first name**: displays contacts as the first name comes first.
- **By last name**: displays contacts as the last name comes first.

Default storage settings:

- **Optionally**: allows you to choose where to store.
- **Phone**: stores contact in the phone memory.
- **SIM**: stores contact in the SIM card.

Memory status *(Menu 8-9)*

You can check how many contact items are stored in the phone or SIM memory.

You can see the number of existing and remaining available entries in the SIM card or phone memory.

Settings

Many different features of your phone can be customised to suit your preferences in the **Settings** menu.

Phone profiles *(Menu 9-1)*

In **Profiles**, you can adjust and customise the phone tones for different events or situations. There are five preset profiles: **Normal**, **Meeting**, **Car**, **Silent**, and **Outdoor**, which you can customise to meet your needs.

Changing the profiles

On the Profiles screen, select a profile by pressing the Up or Down scroll key and press the **OK** soft key.

Note: You can quickly change to silent mode by holding the # key down when in idle mode. To change back to the previous profile mode, hold the # key down again.

Customising the profiles

1. To modify a profile, scroll to the profile on the Profiles list by pressing the Up or Down scroll key, and then press the **Option** and **Edit** key. A list of profile settings opens. The available setting options vary depending on the selected profile.

2. Scroll to the setting you want to change by pressing the Up or Down scroll key, and then change the setting using the Left or Right scroll keys, or the **OK** key.

   The following options are available:

   - **Call alert type**: allows you to select the alert type for the call ringer. You can choose from **Melody**, **Vibration**, **Mute (Light only)**, and **Vibration & melody**.
   - **Voice call/V-Call ringtone**: enables you to select a melody or tone to be used when you select **Melody** or **Vib & melody** in the **Call alert type** option. Press the **OK** key and select a sound from the alert tone list.

   - **Tone volume**: allows you to adjust the volume level of the voice call, video call, ringtone, and message alert tone.
   - **Msg. alert type**: allows you to select the alert type for the message ringer.
   - **Msg. alert tone**: allows you to select the melody or tone to be used if you select **Melody** or **Vib & melody** in the **Msg. alert type** option.

     The last item on the list of tone choices is **Special tone**. If you select **Special tone**, you will see a list of tones that have been downloaded, and you can select one of those tones for your **Msg. alert tone**.
   - **Msg. alert repetition**: allows you to specify how often the phone informs you of a new message. You can choose either **Once** or **Periodic**.
   - **Phone sounds**: allows you to turn the following alert sounds on or off:

     All on: enables all tones.

     Popup box alerts: sets the phone to inform you of the status.

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

     Call connect tone: sets the phone to beep when the person you are calling answers the phone.

     Call end tone: sets the phone to beep when your call ends.

     Power on: sets the phone to beep when the phone is switched on.

     Sound effects: sets the phone to beep when you access the menu.

     Folder open/close: sets the phone to beep when you open or close the phone.

     Alerts on call: sets the phone to all alerts while calling.

     All off: disables all tones.

     To enable an effect tone(s), press the **OK** key to place a check mark next to the tone(s) you want. To remove a check mark, press the **OK** key again. Then press the **Done** soft key to save the settings.
   - **Key tones**: allows you to select a tone which sounds when you press a key.
   - **Key tone volume**: allows you to adjust the volume level of the key tones.

3. When you finish setting the options, press the **Save** soft key.

Display settings *(Menu 9-2)*

This menu allows you to customise the main display screen by setting a greeting message, setting a wallpaper image, or changing the Sub LCD style.

Greeting message

You can set a greeting message to be displayed briefly when you switch the phone on.

1. When **Greeting message** highlights in the Display menu, press the **Select** soft key.
2. Select one between **Main LCD** and **Sub LCD**.

   The current message displays.
3. Press down the **C** key to clear the message.
4. Enter a new message.

   For more information about entering characters, see page 32.
5. When you have finished entering the message, press the **Save** soft key.

Wallpaper

You can select a background image (wallpaper) to be displayed on the idle screen.

1. Select **Wallpaper** in the **Display settings** menu using the Up or Down scroll key, and press the **Select** soft key.

   The **Pictures** folder from **My Items** opens.
2. Press the Up or Down scroll key to scroll to the image you want to use.
3. Press the **Select** soft key or **OK** key to see the image.
4. Press the **Set** soft key or **OK** key to change the wallpaper.

Sub LCD

You can choose one of the following options:

Clock: a clock showing the current time and date appears on the screen.

Sub title: you can enter a sub LCD's greeting message. For more information about entering characters, see page 32.

Wallpaper: you can select an image. You can also adjust the size and position of the image.

Phone settings *(Menu 9-3)*

In this menu, you can set options for the phone.

LCD brightness

You can adjust the brightness of the screen. Press the Left or Right scroll key to make the screen darker or brighter and then press the **Save** soft key.

Backlight

You can set the timer to go to dimming mode when there is no input, which consumes less battery power. You can select the length of time the phone waits before it dims the screen after the last key is pressed. Once the phone goes to dimming mode, the screen will turn off after 30 seconds.

When your phone is in another dimming mode or the screen is off, you can wake it up by pressing any key.

Ext. light

This menu allows you to select whether or not the external light is used and what colour it is.

The external light is a service availability indicator. When you set the **Service light** to **On**, the light flashes when you are in a service area.

If the phone is not in a service area, the light doesn't flash.

If you do not wish to use the service light, select **Off**.

Language

You can select a different language for the display text and the text input mode.

1. Press the **OK** key in the **Screen Text** field.
2. Press the Up or Down scroll key to select a language for the display text, e.g., menu names and warning or confirming messages, and press the **Select** soft key.

Note: The SIM card determines the display language when the **Screen Text** option is set to **Automatic**.

3. Press the Down scroll key to move to the **Input T9** field and press the **OK** key.
4. Press the Up or Down scroll key to select a language for the T9 input mode and press the **Select** soft key.

5. Press the **Save** soft key.

Infrared

In this menu, you can activate or deactivate the infrared port.

The following options are available:

On: activates the infrared feature on the phone.

Off: deactivates the infrared feature on the phone.

If there is no communication between your phone and an IrDA-compliant device within 2 minute of activating the feature, it is automatically deactivated.

Shortcuts

You can set the Left, Right, Up, and Down scroll keys to be used as shortcut keys to the menu functions you use most frequently. In idle mode, this will allow you to access specific menu options directly.

1. Press the Left or Right scroll key to check the current function assigned, and select the scroll key whose function you want to change.
2. Press the **Options** soft key to use the following options:
   - **Change**: assigns or changes the function of the selected scroll key.

   Select a function from the function list and press the **Select** soft key to select it.
   - **Remove**: removes the menu function of the selected navigating key.
   - **Remove all**: removes all functions assigned to the scroll keys.

Active folder

When this option is set to **On**, you can answer a call by opening the phone.

When it is set to **Off**, you must first flip the phone open and press a key, depending on the setting of the **Anykey Answer** option.

Press the Up or Down scroll key to select **On** or **Off**, and press the **Save** soft key.

Anykey answer

When this option is set to **On**, you can answer an incoming call by pressing any key except the key and the **Reject** soft key.

When this option is set to **Off**, you can only answer by pressing the key or the **Accept** soft key.

Press the Up or Down scroll key to select **On** or **Off**, and press the **Save** soft key.

Call settings *(Menu 9-4)*

In this menu, you can set options for a call.

Caller ID

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:

By network: the default setting provided by the network is used.

Send: your number is sent each time you make a call.

Hide: your number is not displayed on the other person's phone.

Diverting

This network service enables incoming calls to be rerouted to the number that you specify, for example, to your voicemail box.

To set your call diverting options:

1. From **Voice call**, **Data call**, and **Video call**, select the type of call to be diverted by pressing the Up or Down scroll key, and then press the **OK** key.
2. Select when the calls should be diverted by pressing the Up or Down scroll key, and then press the **OK** key.
   - **Always**: all calls are diverted.
   - **Busy**: calls are diverted if you are already engaged on a call.
   - **No reply**: calls are diverted if you do not answer the phone.

- **Not reachable**: calls are diverted if you are not in an area covered by your service provider.
- **Cancel all**: all call diverting options are cancelled.

3. Press the **Option** soft key to select one of the following options:
   - **Contacts**: allows you to select call number diverted from contact list.
   - **Activate**: your network has the number already registered, but it is not activated. This option activates the number.
   - **Deactivate**: the selected call diverting option is currently active. This option deactivates the setting.
4. Press the Down scroll key and enter or change the number to which you want your calls diverted. Or, press the **Option** soft key and select the **Contacts** to select a stored number.
5. Press the **Option** soft key and select **Activate** option.

   The phone sends your settings to the network and the network's acknowledgement displays.

Barring

The call barring network service allows you to restrict your calls.

To set your call barring options:

1. From **Voice call**, **Data call**, and **Video call**, select the type of call to be barred by pressing the Up or Down scroll key, and then press the **OK** key.
2. Select which calls should be barred by pressing the Up or Down scroll key, and then press the **OK** key.
   - **All outgoing calls**: calls cannot be made.
   - **Outgoing int'l calls**: international calls cannot be made.
   - **Int'l calls exc. 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 operator is located.
   - **All incoming calls**: calls cannot be received.
   - **Incoming calls when roaming**: calls cannot be received when you are using your phone outside of your home service area.
   - **Cancel all**: all call barring options are cancelled.

   The phone dials your network to find whether call barring is possible or not.

   After a few minutes, the current status displays.
3. Press the Left or Right scroll key to select one of the following options.
   - **Activate**: The selected call barring option is not activated. Selecting this option activates your setting.
   - **Deactivate**: The selected call barring option is currently active. Selecting this option deactivates your setting.
4. Press the Down scroll key and enter the call barring password supplied by your service provider.
5. Press the **OK** key.

   The phone sends your settings to the network and the network's acknowledgement displays.

Changing the barring password

You can change the call barring password obtained from your service provider.

1. From the barring menu screen, press the **Options** soft key and select the **Change password** option.
2. Enter the current password in the **Old** input box.
3. Press the Down scroll key and enter a new password.
4. Press the Down scroll key and enter the new password again to confirm it.
5. Press the **Confirm** soft key.

Waiting

This network service informs you when someone is trying to reach you when you are busy with another call.

To set your call waiting options:

1. From **Voice call** and **Data call**, select the type of call by pressing the Up or Down scroll key, and then press the **OK** key.

The phone dials your network to find whether call waiting is possible or not.

After a few minutes, the current status displays.

2. Press the Left or Right scroll key to select one of the following options.
   - **Check status**: your phone dials your network to find whether call diverting is possible or not. After a few minutes, the current status displays.
   - **Activate**: The selected call waiting option is not activated. Selecting this option activates your setting.
   - **Deactivate**: The selected call waiting option is currently active. Selecting this option deactivates your setting.
3. Press the **Req.** soft key.

   The phone sends your settings to the network and the network's acknowledgement displays.

Auto redial

With this feature, the phone makes up to ten attempts to redial a phone number when an outgoing call fails.

Closed User Group (CUG)

This network service allows incoming and outgoing calls to be restricted to a selected user group. You can ctrate up to ten user groups.

Example: A company lends SIM cards to its employees and wants to restrict outgoing calls to members of the same team.

Activating a closed user group

1. Press the **OK** key to put a check mark on the **Use user group** field.
2. Press the Down scroll key to move to the **Outside access** or **Default group** field. Use the **OK** key to 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.
3. Press the Down scroll key to move to the **Group index** field and select the CUG index you want to activate.
4. Press the **Save** soft key.

Now, you can select the number from the Index field.

Managing the index list

You can add a new index and change or delete an existing index.

1. On the Closed User Group screen, press the Down scroll key to move to the **Group index** field.
2. Press the **OK** key to see the Group index list.
3. Press the Up or Down scroll key to select an index and press the **Options** soft key.

   The following options are available:
   - **Select**: saves the current index list.
   - **New index**: enter a new index name and press the **Save** soft key.
   - **Edit index**: allows you to change the selected index.
   - **Delete index**: deletes the selected index.

Video call settings *(Menu 9-5)*

This menu allows you to select whether or not the video camera is used when a video call is received, or when you retry a failed or interrupted video call (for example, when back within 3G (UMTS) reception).

Show me: allows you to set the video camera use parameters when receiving an incoming video call.

- **Always**: allows you to use the video camera always.
- **Optionally**: allows you to select whether or not the video camera is used.

Retry with: allows you to set how to retry.

- **Voice call**: allows you to retry by voice call.
- **Camera**: allows you to send a multimedia message using video footage.
- **None**: no retry.

Time & date *(Menu 9-6)*

This menu allows you to set the current time and date to display on the idle screen.

You can scroll through the clock options by pressing the Up or Down scroll key. Set the following options:

Time: enter the current time. You can move the cursor using the Left and Right scroll keys. Highlight AM or PM (in 12 hour mode) and change by pressing any of the number keys.

You can change the time format in the **Time format** option below.

Date: enter today's date. You can move the cursor back and forth between the input boxes using the Left and Right scroll keys.

You can change the date format in the **Date format** option below.

Time format: select the time format using the Left and Right scroll keys. You can choose from **12H** and **24H**.

Date format: select the date format using the Left and Right scroll keys. You can choose from:

- DD/MM/YYYY (day/month/year)
- MM/DD/YYYY (month/day/year)
- YYYY/DD/MM (year/day/month)
- YYYY/MM/DD (year/month/day)

Summer time: allows you to activate daylight savings time.

Network settings *(Menu 9-7)*

In this menu, you can set options for Network of your phone.

Network selection

The Network Selection feature enables you to automatically or manually select the network used when roaming outside of your home network.

Note: You can select a network other than your home network only if it has a valid roaming agreement with your home network.

Press the Up or Down scroll key until the appropriate option highlights and then press the **Select** soft key.

If you select **Automatic**, you are connected to the first available network when roaming.

If you select **Manual**, the phone scans for available networks. Press the Up or Down scroll key until the preferred network highlights and then press the **Select** soft key. You are connected to that network.

Network mode

The Network mode feature enables you to select the network you use.

Press the Up or Down scroll key until the appropriate option highlights and then press the **Select** soft key. **Automatic**, **GSM**, and **UMTS** are available.

If you select **Automatic**, the phone scans for available networks.

If you select **GSM**, you can use the GSM network.

If you select **UMTS** (3G network), you can get a higher speech quality than on lower generation networks, and use advanced data and information services, such as video calls. Otherwise you can't use UMTS (3G network) services.

Connections *(Menu 9-8)*

You can set up information about your network connection. In most cases, you don't need to change the settings. In case of problems, please contact Vodafone customer service.

You can have several network settings. You can make changes or rename each setting by pressing the **Options** soft key.

When the **New** or **Edit** option is highlighted, press the **OK** key to edit following options:

Set name: allows you to edit the name of the network setting.

Access name: allows you to edit the access point name used for the address of the GPRS network gateway.

Auth type: allows you to choose the type of authentication used.

User ID: allows you to edit the server login ID.

Password: allows you to edit the server password.

Protocol: allows you to select the protocol from among WAP, HTTP, and Other.

Home URL: allows you to edit the MMS server address.

Gateway address (available only with the WAP protocol): allows you to set the gateway address.

Proxy address/Port (available only with the HTTP protocol): allows you to set the proxy server address and port.

Secure connection (available only with the WAP protocol): allows you to select On or Off.

Linger time: allows you to set a time period after which the network is disconnected if there has been no new data traffic in that time.

Advanced settings

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

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

Static DNS: you can specify if you want to manually enter the DNS (Domain Name Server) address; see the Server 1/2 option. If you want the address to be automatically assigned by the server, remove the check mark.

Server 1/2: enter the Domain Name Server addresses.

Traffic class: select the traffic class, if you selected the PS network.

Managing connections

You can add a new connection and edit or delete an existing connection.

On the list of connections, press the Up or Down key to select a connection and press the **Options** soft key.

The following options are available.

Edit: allows you to edit the selected connection.

New: allows you to add a new connection.

Rename: allows you to change the name of the selected connection.

Delete: deletes the selected connection.

Security *(Menu 9-9)*

The Security feature enables you to restrict the use of your phone:

- to the people of your choice
- to certain types of calls

Various codes and passwords are used to protect the features of your phone. They are described in the following sections; see also pages 113 to 114.

Phone lock

When the Phone lock feature is enabled, the phone is locked and you must enter a phone password of between 4 and 8 digits each time you switch the phone on.

Press the Up or Down scroll key to select **Enabled** or **Disabled** and press the **Save** soft key.

When you select **Enabled**, the display asks you to enter the phone password. Enter your password and press the **Confirm** soft key.

To change the password, refer to the **Change phone password** menu on page 108.

SIM lock

When the SIM lock feature is enabled, your phone only works with the current SIM card. To use another SIM card in your phone, you must enter the SIM lock password set when you lock the card.

Press the Up or Down scroll key to select **Enabled** or **Disabled** and press the **Save** soft key.

When you select **Enabled**, the display asks you to set a new password. Enter a password using four to eight digits and press the **Confirm** soft key.

PIN lock

When the PIN lock feature is enabled, you must enter your PIN each time you switch the phone on. Consequently, any person who does not have your PIN cannot use your phone without your approval.

Press the Up or Down scroll key to select **Enabled** or **Disabled** and press the **Save** soft key.

When you select **Enabled**, the display asks you to enter the PIN code. Enter your PIN code and press the **Confirm** soft key.

The PIN code is supplied with your SIM card. To change your PIN, refer to the **Change PIN code** menu on page 109.

Fixed dialling mode

If the fixed dialling mode is supported by your SIM card, you can restrict your outgoing calls to the FDN (Fixed Dial Number) stored in the SIM card memory.

Press the Up or Down scroll key to select **Enabled** or **Disabled** and press the **OK** soft key.

When you select **Enabled**, the display asks you to enter the PIN2 code. Enter your PIN2 code and press the **Confirm** soft key.

The PIN2 code is supplied with your SIM card. To change your PIN2, refer to the **Change PIN2 code** menu on page 109.

Note: Not all SIM cards have a PIN2. If your SIM card does not, this menu option does not display.

Change phone password

Using this menu option, you can change your phone password to a new one.

1. Enter the current password and press the **Confirm** soft key.
2. Enter a new password and press the **Confirm** soft key.
3. Enter the new password again to confirm it and press the **Confirm** soft key.

Privacy lock

This feature allows you to lock or unlock the usage of the contents, such as messages, pictures, and sounds.

1. Scroll to an item and place a check mark next to it by pressing the **OK** key.

   Selecting **All lock** places check marks on all of the items except **All unlock**. Or, selecting **All unlock** removes all check marks except **All lock**.
2. If necessary, repeat step 1 to check another item.

3. When you have finished checking, press the **Save** soft key.
4. When a confirming message appears, enter your phone password and press the **Confirm** soft key to lock the content(s) selected.

   Otherwise, press the **Back** soft key.

Change PIN code

This feature allows you to change your current PIN to a new one, provided that the PIN lock feature is enabled.

1. Enter the current PIN code and press the **Confirm** soft key.
2. Enter a new PIN code and press the **Confirm** soft key.
3. Enter the new code again to confirm it and press the **Confirm** soft key.

Change PIN2 code

The Change PIN2 code feature allows you to change your current PIN2 to a new one.

1. Enter the current PIN2 code and press the **Confirm** soft key.
2. Enter a new PIN2 code and press the **Confirm** soft key.
3. Enter the new code again to confirm it and press the **Confirm** soft key.

Note: Not all SIM cards have a PIN2. If your SIM card does not, this menu does not display.

Own number *(Menu 9-0)*

You can store your own phone number(s) with a name in your SIM card.

1. Scroll to a number and press the **Select** soft key.
2. Edit your name and number.
3. Press the **Save** soft key to save it.

   If you want to cancel the setting, scroll to the number field and press the **Back** soft key.

Memory status *(Menu 9-✱)*

You can check the status of the memory in your phone or your SIM card.

You can see the available memory space. You can also check the memory used by several applications.

Master reset *(Menu 9-#)*

This menu option allows you to reset your phone to its default configuration.

1. When the display asks you to enter the phone password, enter it and press the **Confirm** soft key.
2. When you are asked to confirm your choice, press the **Yes** soft key.

   To exit the function without resetting the settings, press the **No** soft key.

   Your phone automatically turns off and then back on.

Solving problems

Before contacting after-sales service, perform the following simple checks. It 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 lock

- The Phone lock feature is enabled. You must enter the phone password each time you switch the phone on. To disable this feature, use the **Phone lock** menu (Menu 9-7-1).

PIN lock

- You are using your phone for the first time. You must enter the Personal Identification Number supplied with the SIM card.
- The PIN lock feature is enabled. You must enter the PIN each time you switch the phone on. To disable this feature, use the **PIN lock** menu (Menu 9-7-3).

PUK lock

- The PIN was entered incorrectly three times in succession and the phone is now blocked. Enter the PUK provided by your network operator (you may need to ask them for this).

No service

- The network connection has been lost. You may be in a weak reception 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.

The person calling 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.

The person calling cannot hear you speaking

- Have you switched off the microphone (the Mute icon ( ) appears)?
- 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 "Battery Low" flashes on the display

- The battery is insufficiently charged. Recharge it. See page 14.

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 Search contact feature.
- Edit and 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.

The access codes (except for the PUK and PUK2 codes) can be changed using the **Security** menu (Menu 9-7). See page 107 for further details.

Phone password

The phone password can be used to avoid unauthorised use of your phone. The default password "00000000" (8 zeros) is usually supplied with the phone. Change the password before you start using your phone. Keep the new password secret and in a safe place, separate from the phone.

PIN

The PIN (Personal Identification Number) protects your SIM card against unauthorised use. It is usually supplied with the SIM card. When the PIN lock feature is enabled (see page 107), you must enter the PIN each time you switch on the phone.

If you enter an incorrect PIN three times in succession, enter the PUK obtained from your network operator and press the **Confirm** soft key to unlock the phone. Enter a new PIN and press the **Confirm** soft key. Enter the new PIN again and press the **Confirm** soft key.

PIN2

The PIN2, supplied with some SIM cards, is required to access some functions, such as charging unit counters. These functions are only available if supported by your SIM card.

If you enter an incorrect PIN2 three times in succession, enter the PUK2 and press the **Confirm** soft key to unlock the phone. Enter a new PIN2 and press the **Confirm** soft key. Enter the new PIN2 again and press the **Confirm** soft key.

PUK

The PUK (PIN Unblocking Key) is required to change a blocked PIN. The PUK may be supplied with the SIM card. If not, contact your local service provider.

If you enter an incorrect PUK ten times in succession, the SIM card cannot be used anymore.

Contact your service provider for a new card.

You cannot change the PUK. If you lose the code, contact your service provider.

PUK2

The PUK2, supplied with some SIM cards, is required to change a blocked PIN2.

If you enter an incorrect PUK2 ten times in succession, you cannot use the functions requiring the PIN2. Contact your service provider for a new card.

You cannot change the PUK2. If you lose the code, contact your service provider.

Call barring password

The 4-digit call barring password is required when you use the Call barring function. You obtain the password from your service provider when you subscribe to this function.

Health and safety information

Exposure to Radio Frequency (RF) Signals

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

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

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

SAR tests are conducted using standard operating positions specified by the FCC with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output of the phone.
Before a new model phone is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government-adopted requirement for safe exposure. The tests are performed in positions and locations (e.g., at the ear and worn on the body) as required by the FCC for each model.

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

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/rfsafety

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 shortcircuiting 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 nonemergency wireless assistance number when necessary. If you see a broken-down vehicle posing no serious hazard, a broken traffic signal, a minor traffic accident where no one appears injured, or a vehicle you know to be stolen, call roadside assistance or any other special nonemergency wireless number.

Operating Environment

Remember to follow any special regulations in force in any area and always switch off your phone whenever it is forbidden to use it, or when it may cause interference or danger.

When connecting the phone or any accessory to another device, read its user°Øs guide for detailed safety instructions. Do not connect incompatible products.

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

Electronic Devices

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

Pacemakers

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

Persons with pacemakers:

- Should always keep the phone more than 15 cm (6 inches) from their pacemaker when the phone is switched on

- Should not carry the phone in a breast pocket
- Should use the ear opposite the pacemaker to minimize potential interference

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

Hearing Aids

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

Other Medical Devices

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

Vehicles

RF signals may affect improperly installed or

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

Posted Facilities

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

Potentially Explosive Atmospheres

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

Users are advised to switch off the phone while at a refueling point (service station). Users are reminded of the need to observe restrictions on the use of radio equipment in fuel depots (fuel storage and distribution areas), chemical plants or where blasting operations are in progress.

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

Emergency Calls

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

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

To make an emergency call, proceed as follows.

1. If the phone is not on, switch it on.
2. Key in the emergency number for your present location. Emergency numbers vary by location.
3. Press the <SEND> 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 off your phone before boarding an aircraft. The use of wireless phones in aircraft may be dangerous to the operation of the aircraft, and is illegal.
- Failure to observe these instructions may lead to the suspension or denial of telephone services to the offender, or legal action, or both.

Care and Maintenance

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

- Keep 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 touch the phone with a wet hand while it is charging. 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°Øs electronic circuit board.

- Do not drop, knock or shake the phone. Roughhandling 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 it. Paint can clog the device's moving parts and prevent proper operation.
- Do not put the phone in or on heating devices, such as a microwave oven, a stove or a radiator. The phone may explode when overheated.
- Use only the supplied or an approved replacement antenna. Unauthorized antennas or modified accessories may damage the phone and violate regulations governing radio devices.
- If the phone, battery, charger or any accessory is not working properly, take it to your nearest qualified service facility. The personnel there will assist you, and if necessary, arrange for service.

Acknowledging Special Precautions and the FCC and Industry Canada Notice

Cautions

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

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) This device must accept any interference received.
Including interference that may cause undesired operation.

Information to User

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a

residential installation.
This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help.

Appendix

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 governmentadopted requirement for safe exposure. The tests are performed in positions

**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.

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: 0.648W/Kg, Body-worn: 0.509W/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 A3LSGHZ500.

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 seatbelts 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 situationswith 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 nonemergency 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.wowcom.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 radiofrequency 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 radiofrequency 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 radiofrequency 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 radiofrequency 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 radiofrequency 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 radiofrequency 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 radiofrequency 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?

Radiofrequency 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 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, glioma, meningioma, or acoustic neuroma, tumors of the brain or salivary gland, leukemia, or other cancers. None of the studies

demonstrated the existence of any harmful health effects from wireless phone RF exposures. However, none of the studies can answer questions about long-term exposures, since the average period of phone use in these studies was around three years.

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

A combination of laboratory studies and epidemiological studies of people actually using wireless phones would provide some of the data that are needed. Lifetime animal exposure studies could be completed in a few years. However, very large numbers of animals would be needed to provide reliable proof of a cancer promoting effect if one exists. Epidemiological studies can provide data that is directly applicable to human populations, but 10 or more years follow-up may be needed to provide answers about some health effects, such as cancer. This is because the interval between the time of exposure to a cancer-causing agent and the time tumors develop - if they do - may be many, many years. The interpretation of epidemiological studies is hampered by difficulties in measuring actual RF exposure during day-to-day use of wireless phones. Many factors affect this measurement, such as the angle at which the phone is held, or which model of phone is used.

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

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

FCC RF Safety Program:
http://www.fcc.gov/oet/rfsafety/

Environmental Protection Agency (EPA):
http://www.epa.gov/radiation/

Occupational Safety and Health Administration's (OSHA):
http://www.oshaslc.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

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***Updated 4/3/2002: US Food and Drug Administration
http://www.fda.gov/cellphones

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Declaration of Conformity (R&TTE)

For the following product :

GPRS900/GPRS1800/GPRS1900/WCDMA Quadband Digital Portable Cellular Telephone
(Product description)

SGH-Z500
(Model name)

Manufactured at :

- Samsung Electronics Co., Ltd, 94-1, Imsoo-Dong, Gumi City, Kyung-Buk, Korea, 730-350
(factory name, address)

to which this declaration relates, is in conformity with the following standards and/or other normative documents.

Safety	**: EN 60950-1:2001**
EMC	**: EN 301 489-01 v1.3.1 (2001-09)**
	EN 301 489-07 v1.1.1 (2000-09)
	EN 301 489-24 v1.2.1 (2002-11)
SAR	**: EN 50360:2001**
	EN 50361:2001
Network	**: EN 301 511 v7.0.1 (2000-12)**
	EN 301 908-2 v1.1.1 (2002-01)

We hereby declare that [all essential radio test suites have been carried out and that] the above named product is in conformity to all the essential requirements of Directive 1999/5/EC.

The conformity assessment procedure referred to in Article 10 and detailed in Annex[IV] of Directive 1999/5/EC has been followed with the involvement of the following Notified Body(ies):

BABT, Claremont House, 34 Molesey Road, Walton-on-Thames, KT12 4RQ, UK
Identification mark: 0168

The technical documentation kept at :

Samsung Electronics Euro QA Lab.

which will be made available upon request.
(Representative in the EU)

Samsung Electronics Euro QA Lab.
Blackwater Business Park, Staines Way,
Yateley, Hampshire,GU46 6GG, UK
2004-11-09
(place and date of issue)

Yong-Sang Park / S. Manager
(name and signature of authorized person)

※ It is not the address of Samsung Service Centre. For the address or the phone number of Samsung Service Centre, see the warranty card or contact the retailer where you purchased your phone.