

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



SAMSUNG

GPRS TELEPHONE SGH-D428



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Important safety precautions

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

Road safety at all times

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

Switching off when refuelling

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

Switching off in an aircraft

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

Switching off near all medical equipment

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

Interference

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

Special regulations

Meet any special regulations in force in any area and always switch off your phone whenever it is forbidden to use it, or when it may cause interference or danger (in a hospital for example).

Water resistance


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

Important safety precautions

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 end the call until given permission to do so.

Keeping small children away from your phone

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

Accessories and batteries

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

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

Qualified service

Only qualified service personnel may repair your phone.

For more detailed safety information, see "Health and safety information" on page 184.

CAUTION

RISK OF EXPLOSION IF A BATTERY IS REPLACED
BY AN INCORRECT TYPE.
DISPOSE USED BATTERIES ACCORDING TO THE
INSTRUCTIONS.

Unpacking

Your package contains the following items:



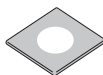
Handset



Travel charger



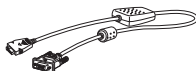
Battery



PC link CD



Straight headset



PC data cable



User's manuals



Finger strap



Stylus pen



Battery charger

Note: The items supplied with your phone and available accessories may be different, depending on your country or service provider.

Your phone

Phone layout

The following illustration shows the main elements of your phone:



Key(s) Description



(soft keys)

Performs the functions indicated by the screen text above them, on the bottom line of the display.



In Menu mode, scrolls through the menu options and Phone book.

While entering text, moves the cursor, depending on which side you push.

In Idle mode, allows you to access the following menus, respectively:

- Up: **Sound settings**
- Down: **Camera**
- Left: **Text messages**
- Right: **Voice memo**



In Idle mode, allows you to launch the WAP browser or Samsung Fun Club. Also, launches the WAP browser when held down.

In Menu mode, selects the highlighted main menu or menu option.



Makes or answers a call.

In Idle mode, recalls the last number you dialed or received when held down.



Deletes characters from the display.

In Menu mode, returns you to the previous menu level.



Ends a call. Also switches the phone on and off when held down.

In Menu mode, cancels your input and returns the phone to Idle mode.

Key(s) Description (continued)



In Idle mode, accesses your voice mail when held down.



Enters numbers, letters, and some special characters.



Enters special characters.
Performs various functions.



(on the left side of the phone)
Adjusts the ringer volume when the phone is ringing and the earpiece volume during a call.

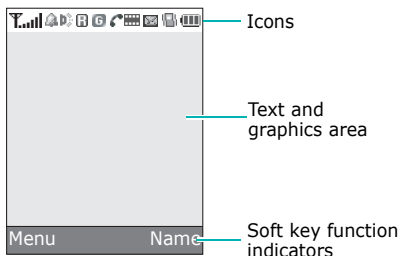
In Idle mode with the phone open, adjusts the keypad tone volume. With the phone closed and the external display on.

In Menu mode, scrolls through menu options and Phone book.

Display

Display layout

The display has 3 areas:



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

Icons

Icon

Description



Shows the received signal strength. The greater the number of bars, the stronger the signal.



Appears when you set an alarm to ring at a specified time. For details, see page 142.



Appears when the IrDA port is active. For details, see page 164.



Appears when you are out of your home area and have logged onto a different network; for example, when travelling in other countries.



Appears when you are connected to the GPRS network.



Appears when a call is in progress.



Appears when you are out of your service area. When it displays, you cannot make or receive a call.



Appears when a new text message has been received.



Appears when a new voice mail message has been received.



Appears when a new multimedia message has been received.



Appears when the call Diverting feature is activated. For details, see page 88.

Icon Description (continued)

Appears when Silent mode is active or you set the phone to vibrate when you receive a call. For further details, see page 35 and page 97 respectively.



Appears when Mute mode is active. For details, see page 71.



Shows the level of your battery. The more bars you see, the more power you have remaining.

Tool icons panel

The tool icons below the display performs the following functions when tapped:

Icon Description

Returns the display to Idle mode.



Enters the **Phone book** menu.



Enters the **Dictionary** menu



Enters the **Paintbrush** menu.



Enters the **Text messages** menu.

Backlight

The backlight illuminates the display and the keypad. When you press any key or open the phone, the backlight comes on. It goes off when no keys are pressed within a given period of time, depending on setting in the **Back light** menu (**Menu 9.2.3**). The display turns off after one minute to conserve battery power.

To specify the length of time the backlight is active, set the **Back light** menu. See page 169 for further details.

Camera

The camera on the top left of your phone allows you to take a photo or record a video while on the move.

For further details about the Camera feature, see page 156.


Getting started

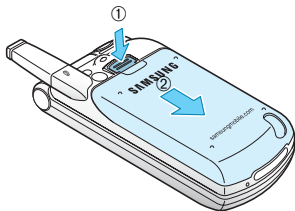
Installing the SIM card

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

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

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

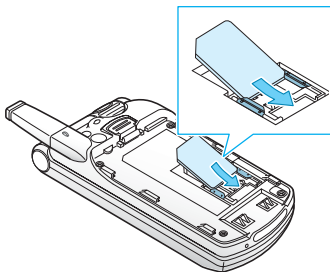
1. If necessary, switch off the phone by holding down the  key until the power-off image displays.
2. Remove the battery.
 - ① Press down the battery lock above the battery.
 - ② Slide away the battery, as shown.



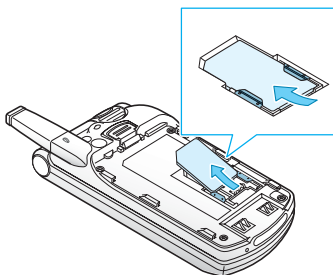
Getting started

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

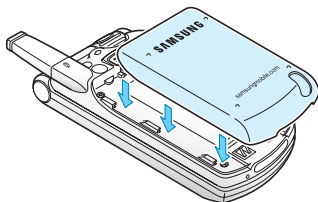
Make sure the gold coloured contacts of the card face into the phone.



Note: When you need to remove the SIM card, slide it upward, as shown, and take it out of the socket.

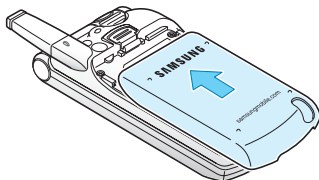


4. Place the battery so that the grooves on it align with the tabs on the phone.



5. Slide the battery toward the top of the phone until it clicks into place.

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



Charging the battery

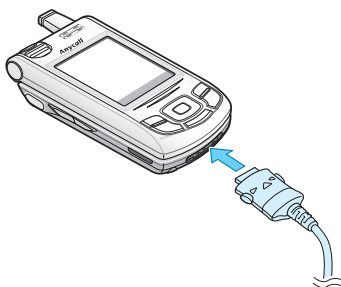
Your phone is powered by a rechargeable Li-ion battery. A travel adapter and a battery charger come with your phone for charging the battery. Use only approved batteries and chargers. Ask your local Samsung dealer for further details.

Note: You must fully charge the battery before using your phone for the first time. A discharged battery recharges fully in approximately 200 minutes.

Using the travel adapter

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

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



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

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




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

Low battery indicator

When the battery is weak and only a few minutes of talk time remain, a warning tone sounds and a message repeats at regular intervals on the display. In this case, your phone will turn off the backlight to conserve the remaining battery power.


When the battery level becomes too low, the phone automatically turns off.

Switching on or off the phone

1. Press and hold the  key until the phone switches on.
2. If the phone asks you to enter a password, enter the password and press the **OK** soft key. The password is preset to "00000000" at the factory. For further details, see page 180.
3. If the phone asks for a PIN, enter the PIN and press the **OK** soft key. For further details, see page 181.

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

Note: To change the language, use the **Language** menu (**Menu 9.5**). For further details, see page 171.

4. When you wish to switch off the phone, hold down the  key until the power-off image displays.

Note: If your phone is closed, you first need to open it to activate the display and the keypad.


WARNING!

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

Using the Keypad Lock feature

You can open the phone to use the number keypad and close the phone to make it compact.

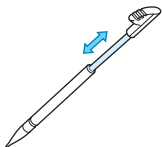
When you close the phone, the display turns off and the phone automatically locks the exposed function keys to keep it from being pressed accidentally.

When you press and hold down the  key or either of the Volume keys on the left side, the display turns on and shows "Keypad locked." To unlock the keypad, press and hold the **Unlock** soft key. The keypad is activated and you can use the phone's functions.

Using the stylus pen

Your phone's display is a touch screen which allows you to select an item displayed by tapping on it or to write text as you would on paper. A stylus pen is supplied with your phone to let you tap and write on the touch screen.

1. Expand the stylus pen by pulling the handle.



2. Use the stylus pen, holding it as you would a pen or pencil.

Getting started

When you aren't using the stylus pen, store it in the phone by sliding it into the storage slot on the bottom of the phone.



Selecting functions and options

Your phone offers a set of functions that allow you to customise it. These functions are arranged in menus and sub-menus, accessed using the two soft keys. Each menu and sub-menu allows you to view and alter the settings of a particular function.

Using the soft keys

The roles of the soft keys vary, depending on the function you are currently using; the labels on the bottom line of the display just above each key indicate their current role.

Example:



Press the left soft key to access Menu mode.

Press the right soft key to access the Phone book feature.

Selecting functions and options

In each main menu, one of the most popular sub menus is assigned to the left soft key – for example, if you select the **Sound settings** menu, **Ring tone** is assigned to the left soft key. This allows you to quickly access the most popular menus.

Using the touch screen

Using the stylus pen, you can tap items on the display of your phone to perform the following operations:





- Enter main menus
- Select menu options
- Perform soft key commands
- Scroll through lists
- Enter text on the onscreen keyboards

Note: Tapping on main menus has the same effect as pressing the left soft key; it allows you to quickly access the most popular sub menus.

Selecting options

To select an option, you can use both the keypad and the touch screen.

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

To	Choose one of the following options:
perform a soft key command	<ul style="list-style-type: none"> • Press the corresponding soft key. • Tap the soft key indicator.
scroll through a list	<ul style="list-style-type: none"> • Press the Up or Down key. • Tap the up or down arrow on the right of the list.
select an option or a function	<ul style="list-style-type: none"> • Tap the option or function. • Press the Select or OK soft key or  key when the option or function is highlighted. • Tap Select or OK when the option or function is highlighted. • Press the corresponding number key when the option or function is numbered.
move back up one level in the menu structure	<ul style="list-style-type: none"> • Press the  soft key. • Tap . • Press the C key.
exit the menu structure without changing the settings	<ul style="list-style-type: none"> • Press the  key. • Close the phone.

Selecting functions and options

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

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

Call functions

Making a call

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

Note: When you activate the **Auto redial** option in the **Extra settings** menu (**Menu 9.7**), the phone will automatically redial up to 10 times if the person does not answer the call or is already on the phone. See page 175 for further details.


Making an international call

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

Correcting the number

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




Ending a call

When you want to end your call, briefly press the  key or close the phone.

Redialling the last number

The phone stores the numbers of the calls you've dialled, received, or missed, if the call recipient of caller or the call recipient is identified. See "Call records" on page 84 for further details.

To recall any of these numbers:

1. If you have typed characters on the display, press the  key to return to Idle mode.
2. Press the  key to display a list of the most recent numbers used, in the order you dialled or received them.
3. Scroll through the numbers until the number you want highlights.
4. Choose one of the following options:
 - To dial the number, press the  key.
 - To edit the number, select **Options** and then select **Edit**. Change the number, referring to "Correcting the number" on page 29.
 - To delete the number, select **Options** and then select **Delete**.
 - To delete all of the numbers on the Call log list, select **Options** and then select **Delete all**. For details, see page 86.

Making a call from Phone book



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

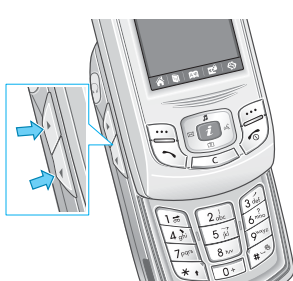
Once you have stored a number in Phone book, you can dial it by pressing a few keys. You can also assign your most frequently-used numbers to number keys using the Speed Dial feature.

For further details about the feature, see page 36.

Adjusting the volume

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

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





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

Answering a call


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


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

1. If necessary, open the phone. Press the  key or select **Accept** to answer the incoming call.

When the **Anykey answer** option in the **Extra settings** menu (**Menu 9.7**) is activated, you can press any key to answer a call except for the  key and the **Reject** soft key. See page 175.

When the **Active slide** option in the **Extra settings** menu is activated, you can answer the call simply by opening the phone. See page 175.

Note: To reject the call, if Anykey answer is unchecked, press and hold one of the Volume keys, or press the **Reject** soft key or the  key.

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

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

Viewing missed calls


When you are unable to answer a call for any reason, you can find out who called you so that you can call the person back.

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

To view a missed call immediately:



1. If the phone is closed, open the phone.
2. Select **View**.

The number for the most recent missed call displays, if available.

3. Scroll through the missed calls if there is more than one.
4. Choose one of the following options:
 - To call the number displayed, press the  key.
 - To edit or delete a missed call number, select the call. See the following sections.

Editing a missed call number

Note: When the number for the missed call is not available, the **Edit** option does not display.

1. Select **Options** or press the  key and then select the **Edit** option.
2. Change the number.
3. Choose one of the following options:
 - To call the number, press the  key.
 - To store the number, select **Save** and enter a name and the location. For further details, see page 36.

Deleting a missed call


1. Select **Options** or press the **i** key.
2. Select **Delete**.

You can press the **⏏** key at any time to exit the Missed Call feature.


Note: You can access the Missed Call feature at any time by selecting the **Missed calls** menu (**Menu 2.1**). For further details, see page 84.

Quickly switching to Silent mode

Silent mode is convenient when you wish to stop the phone from making noise, in a theatre for example.

In Idle mode, press and hold the # key until the "Silent mode" message and the Vibration icon () display. The phone also vibrates.

In Silent mode, instead of sounds, your phone will vibrate, flash its light, or do nothing depending on the function and the situation.

To exit and reactivate the previous sound settings, press and hold the # key again until "Exit silent mode" appears. The Vibration icon () no longer displays.

Notes:

- When you turn off the phone, Silent mode is automatically deactivated.
- Activating Silent mode will not turn off the camera shutter sound.

Phone book

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

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

Storing a number with a name




There are two ways to store a number:

- Entering a number and then selecting **Save** in Idle mode
- Using the **New entry** option in the **Phone book** menu

Storing a number in Idle mode

1. Enter the number you want to store.

Note: If you make a mistake while entering a number, correct it using the **C** key. For further details, see page 29.

2. When you are sure that it is correct, select **Save**.
3. Select an icon to identify the category in which the number is to be stored. Three categories are available:
 -  : Mobile phone number
 -  : Office number
 -  : Home number

To select the category, press the Left or Right key and press the **Select** soft key.

4. Select a memory location, either **SIM** or **Phone**, by pressing the Up or Down key and press the **Select** soft key.




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

5. Enter a name and select **OK**.


For further details about how to enter characters, see page 48.


6. When the phone confirms the name you've entered, select **OK**.
7. If you do not want to save the number and name in the suggested location, press the **C** key to clear the location number and enter another location by pressing the number keys.
8. Select **OK** to store the name and number.

After storing, the phone displays the phone number or name you just stored.

9. Choose one of the following options:
 - To dial the number, press the  key.
 - To use the entry options, select **Options** or press the  key. For further details, see page 39.
 - To return to the idle screen, press the  key.

Storing a number using the Phone book menu

1. When the idle screen displays, select **Name** or tap .
2. Select **New entry**.
3. Select an icon to identify the category of the number to be stored.

Note: The E-mail icon () is available in this step. It allows you to save an e-mail address instead of a phone number.

4. Select a memory location, either **SIM** or **Phone**, by pressing the Up or Down key and press the **Select** soft key.

Note: When you are saving an e-mail address, SIM is not available.

5. Enter a name and select **OK**.

For further details about how to enter characters, see page 48.

6. When the phone confirms the name you entered, select **Save**.
7. Enter the number or address you want to store and select **OK**.
8. Continue the procedure from step 7 on page 37 to store the number.

Using Phone book entry options

While accessing any Phone book entry, select **Options** or press the **⌘** key to access the options for the entry.

The following options are available:

Photo caller ID: allows you to assign one of the photos you took using the camera as a caller ID image to be displayed when you receive a call from the selected number. For details about the Camera feature, see page 156.

Select photo: allows you to select a photo for the number.

Take photo: allows you to take a new photo to be used as a caller ID.

View: displays the photo assigned to the number.

Delete caller ID: cancels the photo caller ID setting for the number.

Paste: allows you to paste the number into the normal dialling mode. Use this option to dial a number similar to one in Phone book, such as a different extension in the same office.

Use the **C** key to change the number as required; see page 29 for further details. When you are ready to dial, press the **↵** key.

Edit: allows you to edit the name and number.

Select **One entry** to change the name and/or phone number for the selected entry. If you change the name, the number is saved separately with the new name.

Select **All entry** to change only the name of the entry.

Delete: allows you to delete the name and number from Phone book. You are asked to confirm that you wish to delete the name and number by selecting **Yes** or **i** key.

Copy: allows you to copy the number to another location. You can select the memory location, either SIM or Phone, and the location number.

Caller group: allows you to organise your Phone book entries in caller groups so that the phone alerts you in a specific way when a person from one of your groups calls you. Select one of the 10 groups available.

To remove an entry from a group, select the **No group** option.


For further details about how to change caller group properties, see page 45.

Add entry: allows you to add a new number to the currently selected name.



Send via IrDA: allows you to send one or all numbers in the entry to another phone via the infrared port. For details, see page 167.

Dialling a number from Phone book



Once you have stored phone numbers in Phone book, you can dial them easily and quickly by using the location numbers that were assigned to them in Phone book.

Note: If you cannot remember a location number, you must go into the **Search** option by selecting **Name** or tapping  to search for the entry by name. For details, see page 43.

Dialling a number from the SIM card

1. In Idle mode, enter the location number of the number you want to dial and press the **#** key.
The list of the entries in the SIM card appears.
2. If necessary, scroll through the list.
3. When the number displays, select **Dial** or press the  or  key.


Dialling a number from the phone's memory

1. In Idle mode, press and hold the **0** key. A **+** appears.
2. Enter the location number of the number you want and press the **#** key.
The list of the entries in the phone's memory appears.
3. If necessary, scroll through the list.
4. When the number displays, select **Dial** or press the  or  key.

Speed dialling


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


Setting up speed-dial entries



1. When the idle screen displays, select **Name** or tap .
2. Select **Speed dial**.
3. Select the key to which you wish to assign the speed-dialling number, from the **2** to **9** keys.

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

If you have already assigned a number to the key, the **Options** soft key replaces the **OK** soft key. Go to step 7.

4. Enter the first few letters of the name that you want to find and select **OK**.
5. Select an entry from the Phone book list and select **View**.
6. Select a number, if the entry has more than one.
7. Once you have assigned a number to the key, you can access the following options by selecting **Options** or pressing the  key:
 - **Change:** allows you to assign a different number to the key.
 - **Delete:** allows you to clear the setting so that no number is assigned to the key.

- **Delete all:** allows you to clear the settings for all keys so that no numbers are assigned to any of the keys.
- **Number:** allows you to view the number assigned to the key. You can dial the number by pressing the  key.

8. When you are finished, select  or press the  key.


Speed-dialling

To speed-dial the numbers assigned to the **2** to **9** keys, press and hold the appropriate key.

Searching for and dialling a number in Phone book

After storing numbers in Phone book, you can search for them in two ways; by name and by caller group.

Searching for a number by name




1. When the idle screen displays, select **Name** or tap  and then select **Search**.

You are asked to enter a name.


2. Enter the first few letters of the name that you want to find and select **OK**.

The Phone book entries are listed, starting with the group that most closely matches your input.

3. Select the entry you want and select **View**.

4. Select one of the following options:
 - To dial the number, press the  key.
 - To use the entry options, select **Options** or press the  key. For further details, see page 39.
 - To return to the idle screen, press the  key.




Searching for a number by caller group

1. When the idle screen displays, select **Name** or tap .
2. Select **Group search**. You are asked to enter a group name.
3. Enter the first few letters of the group name that you want to find and select **OK**.




The caller groups are listed, starting with the entry that most closely matches your input.

4. Select a group from the list.

The Phone book entries in the caller group are listed.


5. Select the entry you want.
6. Select one of the following options:
 - To dial the number, press the  key.
 - To use the entry options, select **Options** or press the  key. For further details, see page 39.
 - To return to the idle screen, press the  key.

Editing a caller group



1. When the idle screen displays, select **Name** or tap .
2. Select **Group edit**.
3. Select the group that you want to find.
4. Select each option and change the settings, as required. The following options are available:
 - **Call ring tone:** allows you to set a ring tone to be used when you receive a call from a member of that group.
 - **SMS tone:** allows you to set an SMS tone to be used when you receive a message from a member of that group.
 - **Graphic:** allows you to set a graphic icon to be displayed when you receive a call from a member of that group.
 - **Group name:** allows you to assign a name to the group. For further details about how to enter characters, see page 48.
5. When you are finished, select  or press the  key.

Deleting all of the Phone book entries

You can delete all of the entries in the selected memory or both memories.


1. When the idle screen displays, select **Name** or tap .
2. Select **Delete all**.
3. Select the memory you want to empty, **All**, **SIM**, or **Phone**, in order to place a check mark.
You can remove the check mark by selecting the option again.
4. When you have finished marking, select **Delete** to delete the entries in the selected memory location(s).
5. Enter the phone password and select **OK**.

Note: The password is preset to "00000000" at the factory. To change it, see page 173.



6. When the confirmation message appears, select **Yes**.
To cancel the deletion, select **No**.
7. When the display asks for your confirmation, select **Yes**.
8. When you are finished, select  or press the  key.

Checking the memory status

You can check how many names and numbers are stored in Phone book, in both the SIM card and the phone's memory. You can also see the capacity of both memories.




1. When the idle screen displays, select **Name** or tap .
2. Select **Memory status**.
3. Select a memory location.

A pop-up box shows to view the number of the entries you have stored and the total number of the entries you can store in the SIM card and the phone's memory.

4. When you are finished, select  or press the  key.

Using the service dialling numbers

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

1. When the idle screen displays, select **Name** or tap .
2. Select **SDN**.
3. Select the number you want.
4. To dial the number displayed, select **Dial** or press the  or  key.


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

Entering text


The phone allows you to enter characters for messages and names in Chinese and English by using the keypad and the touch screen. To enter Chinese text, the phone provides several widely used pronunciation based (Pinyin) and character shape based (Stroke) input methods to meet the preferences of different users, allowing for greater convenience and ease of use.

You can also enter any combination of Chinese characters, alphabets, numbers, and special symbols including punctuation marks.

The following text input modes are available on your phone:

- Pen Stroke mode
- Pinyin mode
- Chinese Simplified Stroke mode
- Quick English mode( mode)*
- English mode
- Chinese Traditional Stroke mode
- Number mode
- Symbolic mode
- My Words mode

Directions for using each of the text input modes appear later in this section.

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

Note: The available text input modes may be different, depending on your language setting. Refer to the following table:

Language	Available modes
English	Pen Stroke, CHN Stroke, Quick English, English, Number, Symbolic, My Words
Chinese T	Pen Stroke, CHN Stroke, Quick English, English, Number, Symbolic, My Words
Chinese S	Pen Stroke, Pinyin, CHN Stroke, Quick English, English, Number, Symbolic, My Words

Changing the text input mode

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

Example: Entering a name for a Phone book entry




Text input
mode indicator

Note: Depending on your particular SIM card, the maximum number of the characters you can enter may differ.








Entering text

To change to another text input mode:

1. Select the current mode indicator on the right soft key field.
2. Select the mode you want to use.

Note: If you want to exit the menu without changing to a new mode, select .

The selected text input mode indicator appears at the bottom of the display.

Input mode	Indicator
Pen Stroke mode	 (see page 51)
Chinese Pinyin mode	 (see page 55)
Chinese Simplified Stroke mode	 (see page 58)
Quick English mode	 (see page 61)
English mode	 (see page 64)
Chinese Traditional Stroke mode	 (see page 58)
Number mode	 (see page 65)
Symbolic mode	No indicator (see page 66)
My Words mode	No indicator (see page 67)

Using Pen Stroke mode

Pen Stroke mode allows you to write the letters you want to enter on the touch screen using the stylus pen as you would on paper. You can then choose from the displayed choices corresponding to your pen stroke. You can enter Chinese and English letters, symbols, and numbers without having to change the text input mode.

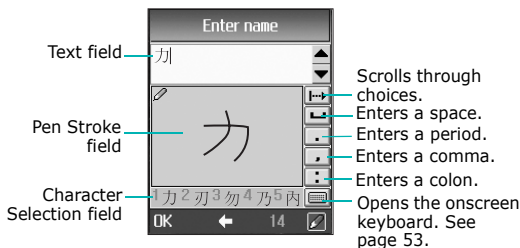
In this mode, you can also open the alphabetic, numeric, and symbolic onscreen keyboard and enter text simply by tapping the characters on the keyboard.

Typing characters in Pen Stroke mode

1. Write the character you want on the Pen Stroke field.

Notes:

- You need to follow the correct sequence of strokes. For the sequences of English alphabet, numbers, and symbols, see page 52.
- Because of the touch screen's sensitivity, choices displayed may differ each time you write a character.
- You can not enter some symbolic characters with the touch pad, use the keypad to enter them.



The first choice is automatically inserted into the Text field.

Entering text

2. If the phone doesn't recognise your stroke, you can select a character from the Character Selection field.

The first character is replaced with the selected one.

Note: If the character you want doesn't display in the Character Selection field, you need to clear the entered character and then start over again.

3. Continue writing the next characters.

Sequences of pen strokes

When you write English alphabet, numbers, and symbols, refer to the following tables to enter strokes in the correct order.

English

Aa		Nn	
Bb		Oo	
Cc		Pp	
Dd		Qq	
Ee		Rr	
Ff		Ss	
Gg		Tt	
Hh		Uu	
Ii		Vv	
Jj		Ww	
Kk		Xx	
Ll		Yy	
Mm		Zz	


Numbers

0	0 0 0 0	5	5 5
1	1 1 1	6	6 6
2	2 2	7	7 7 7
3	3	8	8 8
4	4 4	9	9 9

Symbols

~	~	/	/))
!	! ¹ / ₂	\	\	<	<
?	? ¹ / ₂	+	+ ¹ / ₂ + ¹ / ₂	>	>
#	# ¹ / ₂ ³ / ₄ # ¹ / ₂ ² / ₃	-	-	:	:
\$	\$ ¹ / ₂	=	= ¹ / ₂	;	;
%	% ¹ / ₂ ² / ₃ % ¹ / ₃	{	{	'	'
^	^	}	}	,	,
&	&	[['	'
*	* ² / ₃ ¹ / ₂ * ³ / ₄ ² / ₃ * ¹ / ₂ ² / ₃]]	"	"
@	@ ² / ₃ @ ² / ₃	((.	.

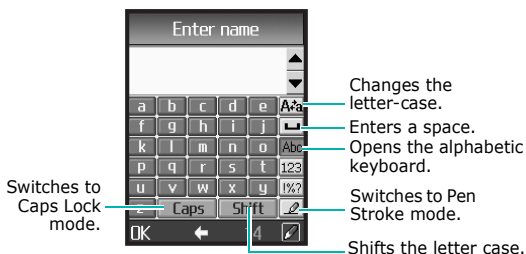
Using the onscreen keyboard

Tapping  in Pen Stroke mode opens the onscreen keyboard. You can select either the alphabetic, numeric, or symbolic keyboard.

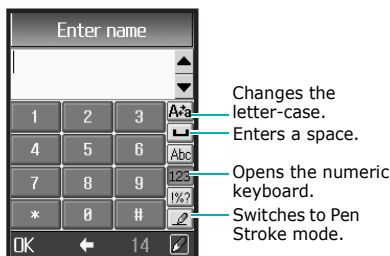
To enter characters using the onscreen keyboard, just tap the one you want on the keyboard.

Entering text

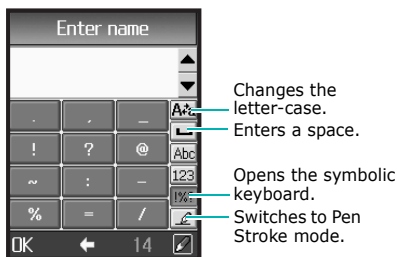
- Tap **Abc** to open the alphabetic keyboard.



- Tap **123** to open the numeric keyboard.



- Tap **!%?** to open the symbolic keyboard.



Using Chinese Pinyin mode

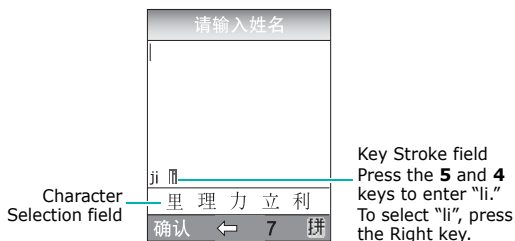
Pinyin is a system to write pronunciation of Chinese words using the Latin alphabets. With the Pinyin input method, you can enter Chinese characters by keying in the Pinyin string from the phone's keypad and the phone automatically presents the matching words.

This mode allows you to enter Pinyin characters with only one key press per letter.

Typing characters in Pinyin mode

1. Press the keys corresponding to the phonetic spelling, referring to the alphabets printed on the keys. Notice that the choices in the Character Selection field change. All of the phonetic spellings corresponding to the keys you press display.

Example: Typing “力” in Pinyin mode

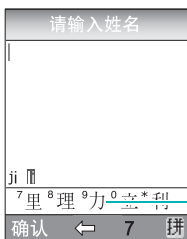


2. Select the Pinyin you want.
3. If you cannot find the character on the display, scroll through choices in the Character Selection field by pressing the Down key. To move back, press the Up key.

Entering text

When the character you are typing appears in the Character Selection field, you may select it, without completing the Pinyin spelling for the character.

4. When the character displays, press the **1** key to activate the Character Selection field. A number (**7** to *****) is added to the beginning of a corresponding character.
5. With the Character Selection field being activated, tap the character or press the **7** key to the ***** key to select the corresponding character.



Press the **9** key to select “力” or just tap it.

Note: If you enter the first character of the name you assigned to a My Words item (see page 67), the display shows you the character at the end the Pinyins for your keypress. To use the item, press the Right key to highlight the character and then press the ***** key.

Inserting a space

To insert a space between characters, press the **#** key when the cursor blinks in the Text Area.

Scrolling

To move the cursor through your text, press the Left or Right key.

Clearing strokes and characters

Press the **C** key one or more times to remove key strokes to the left. When the Key Stroke field is empty, pressing the **C** key removes characters from the Text Area.

Rapid character entry

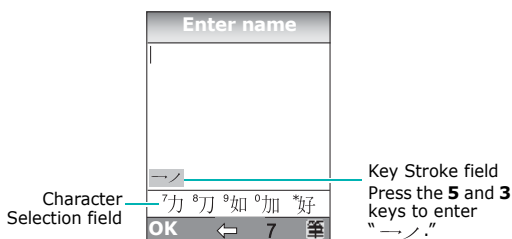
Rapid character entry is easy in any mode, using the Character Selection field. As you enter characters, your phone predicts the next character you might want and presents choices in the Character Selection field. When the character you want appears, you may select it as described in steps 4 and 5 in “Typing characters in Pinyin mode” on page 55.

For example, when you want to type the word “zhong guo (中国),” enter the first character using the following keystrokes; **9**, **4**, **6**, **6**, **1**, and **7**. You don’t need to complete the Pinyin spelling to include “guo (国).” With no extra typing, the character displays conveniently in the Character Selection field for you to choose.

Typing strokes and characters in Stroke mode

1. To type a character, press the keys corresponding to its component strokes. Press the keys on the phone in order that you would write the strokes, using one press per stroke.

Example: Typing “力” in Chinese Traditional Stroke mode



2. The phone displays your strokes in the Key Stroke field and offers character choices in the Character Selection field. As you enter strokes, notice that the choices in the Character Selection field change. To scroll through the choices, press the Down key. To move back, press the Up key.
3. When the character you are typing appears in the Character Selection field, you may select it without finishing the stroke sequence for the character. Characters displayed in the Character Selection field correspond to the keys **7** to ***** on the keypad.

To select a character and add it to your text, press the corresponding key (**7** to *****). You can also tap the character.

Entering text

Note: If you are uncertain of the order of one or more strokes, press the **6** key in place of each questionable stroke. Continue entering strokes until the character displays in the Character Selection field or until you finish the character.

Inserting a space

To insert a space between characters, press the **#** key when the cursor blinks in the Text Area.

Scrolling

To move the cursor through your text, press the Left or Right key.

Clearing strokes and characters

Press the **C** key one or more times to remove strokes to the left. When the Key Stroke field is empty, pressing the **C** key removes characters from the Text Area.

Rapid character entry

Rapid character entry is easy in any mode, using the Character Selection field.

As you enter characters, your phone predicts the next character you might want and presents choices in the Character Selection field. When the character you want appears, you may select it as described in step 3 on page 59.

In most cases, the character you want appears in the Character Selection field before you enter all of the strokes to build it.

For example, try typing the twelve stroke character pair “中國” using the following keystrokes; **2**, **8**, and **7**. Even though “中國” is a twelve stroke character pair, your phone enables you to type it in only three key presses!

Using Quick English mode

This mode allows you to enter English words with only one key press per letter. Each key on a keypad has more than one letter; for example, pressing the **5** key can enter J, K, or L. However, Quick English mode automatically compares the series of key presses with an internal linguistic database to determine the most likely word.

The mode requires far fewer keystrokes than the traditional multi-tap method, English mode.

Note: In Quick English mode, the touch screen is not available.

Entering text

To enter a word in Quick English mode:

1. Press keys on the phone just once per a letter you want. For example, to enter "HELLO," press the **4**, **3**, **5**, **5**, and **6** keys.

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

2. Type to the end of the word before editing or deleting any keystrokes.
3. When the word displays correctly, go to step 4, insert a space by pressing the **#** key and start entering the next word.

If the word doesn't displays correctly, press the **0** key or Down key repeatedly to display alternative word choices for the keys that you pressed.

Example: Both "OF" and "ME" use the **6** and **3** keys. The phone displays the most commonly used choice first.

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

To add a new word into the T9 dictionary:

1. After pressing the keys corresponding to the word you want to add, press the **0** key or the Down key to display the alternative words.
2. When there are no more alternative words, the display shows **Add** on the bottom line. Press the **Add** soft key.

3. If necessary, clear the word using the **C** key and enter the word you want to add using English mode; see page 64.
4. Press the **OK** soft key.

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

Smart punctuation

To enter periods, hyphens, or apostrophes, press the **1** key. Quick English mode applies grammar rules to ensure that the correct punctuation is used.

Changing the case

To change case of the letters, use the **✱** key. There are three cases; Lower case(**ab**), Initial Capital(**Ab**), and Capital Lock(**AB**).

Scrolling

To move the cursor through your text, press the Left or Right key.

Clearing letters and words

To delete letters, press the **C** key. Press and hold the **C** key to clear the display.

Using English mode

When typing in English mode, you can tap the alphabets on the onscreen keyboard, or press the key labelled with the character you want:

- Once for the first character
- Twice for the second character
- and so on.

This method is called Multi-tap typing.

For example, you need to press the **2** key three times to display the character "C" and the **5** key two times to display the character "K."

The cursor moves to the right when you press a different key. When entering the same letter twice or a different letter on the same key, just wait for a few seconds for the cursor to move to the right automatically, and then select the next letter.

Refer to the table below for more information about the available characters by pressing the number keys:

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

Inserting a space

You can insert a space between words by pressing the **#** key.

Changing the case

To change case of the letters, use the **✳** key. There are three cases; Capital Lock(**AB**), Lower case(**ab**), and Initial Capital(**Ab**).

Scrolling

To move the cursor through your text, press the Navigation keys.

Clearing letters and words

To delete letters, press the **C** key. Press and hold the **C** key to clear the display


Using Number mode

Number mode enables you to enter numbers in your text, such as a telephone number. Tap the number on the onscreen keyboard or press the keys corresponding to the digits you want to enter.

Using Symbolic mode

Symbolic mode enables you to insert symbols into your text.



- To select a symbol, press the corresponding number key or just tap the symbol.
- To display more symbols. press the Up or Down key or tap the up or down arrow.
- To insert the symbol(s) into your text, select **OK** or press the **i** key.
- To clear the symbol(s) you entered, press the **C** key.
- To cancel your input and exit Symbolic mode, select .

Using My Words mode

This mode allows you to preset Chinese words or phrases so that you can quickly and easily insert them into your text while you are creating a message.

Adding a word or phrase onto the My Words list

1. Select **Add word**.
2. Enter a word or phrase using the available modes and select **OK**.

For further details about each mode, see pages 51 to 66.

3. Enter a name to assign to the word you added. If necessary, press the **C** key to clear the characters.
4. Select **OK**.

The word or phrase is added to the My Words list.

Using My Words items

1. Choose the current input mode indicator on the right soft key field when you are creating text.
2. Select **My words** from the list.
3. Select the word you want from the list.

Alternatively, enter a few letters of the name of the My Words item you want to find. The item that most closely matches your input highlights. You can then select an item.

Entering text

4. Press the **z** key or tap the word you want. The word is inserted in your text.

Using My Words options

Select a word or phrase from the My Words list and select **Options**.

The following options are available:

Edit phrase: allows you to change the word or phrase and then the name assigned to the item.

Create phrase: allows you to add a new word or phrase.

Delete phrase: allows you to delete the item. When a confirmation message appears, select **Yes**.

Select phrase: allows you to insert the word or phrase to your text.

Using Help mode

On-screen help is available by selecting **Help** from the input mode menu. Use the Up and Down keys or tap the up and down arrows to scroll through the Help information.

Options during a call

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

Putting a call on hold


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

To place a call on hold, simply select **Hold**. You can reactivate the call whenever you want by selecting **Unhold**.

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

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

For details about searching for a number in Phone book, see page 43.

2. Press the  key to dial the second call.

The first call is automatically put on hold.

Alternatively,


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

Options during a call

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

To switch between the two calls, select **Swap**.

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

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

Using the menu functions

You can access the main menu functions, during a call.

1. Select **Options** or press the **⌘** key and then select **Menu**.
2. If necessary, scroll through the menu list.

Note: You cannot use some menus during a call. They are deactivated on this list.

3. Select the menu you want to use.
4. If the selected menu has sub-options, repeat steps 2 and 3.

For further details about available menu functions, see the list on page 78.


Switching the microphone off (Mute)

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

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

To switch the microphone off temporarily:

1. Select **Options** or press the **i** key.
2. Select **Mute**.

The Mute icon () displays and the other person on the phone can no longer hear you.

To switch the microphone back on:

1. Select **Options** or press the **i** key.
2. Select **Unmute**.

The other person on the phone can hear you again.

Muting or sending DTMF tones

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

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

Sending a sequence of DTMF tones

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

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

To send the DTMF tones:

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

The tones are sent.

Searching for a number in Phone book

You can search for a number in Phone book during a call.

1. Select **Options** or press the **⌵** key.

2. Select **Phone book**.

The Phone book entries are listed.

3. Enter the name that you wish to find and select **OK**.

If you enter the first few letters of the name, the Phone book entries are listed starting with the entry that most closely matches your input.

4. Select the entry you want and select **View**.

For further details about the Phone book menu, see page 36.

Call waiting

You can answer an incoming call while you have a call in progress, if your network supports this service and you have set the **Call waiting** menu (**Menu 3.3**) to **Activate**; see page 91. You are notified of an incoming call by a call waiting tone.

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

1. Press the **↶** key to answer the incoming call.
The first call is automatically put on hold.

2. To switch between the two calls, select **Swap**.

Options during a call

3. To end the call on hold, select **Options** or press the **⌵** key and then select **End held call**.

To end the current call, press the **⌵** key.

Making a multi-party call

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

Setting up the multi-party call

1. Call the first participant in the normal way.
2. Call the second participant in the normal way. The first call is automatically put on hold.
3. To join the first participant to the multi-party call, select **Options** or press the **⌵** key and then select **Join**.
4. To add a new person to the multi-party call, call the person in the normal way and select **Options** or press the **⌵** key and then select **Join**.

You can add incoming callers by answering the call, by selecting **Options** or press the **⌵** key and the selecting the **Join** option. Repeat as required.

Having a private conversation with one participant

1. Select **Options** or press the **i** key and then choose **Select one**.

The list of call participants appears.

2. Select a person from the list and choose **Select**.
3. Select **Private**.

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

4. To return to the multi-party call, select **Options** and then select **Join**.

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

Dropping one participant

1. Select **Options** or press the **i** key and then select **Select one**.

The list of call participants appears.

2. Select a person from the list and choose **Select**.
3. Select **Remove**.

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

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

Using the menus

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

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

Accessing a menu function by scrolling

You can scroll and select a menu function by tapping items on the touch screen or pressing the Navigation keys and the associate soft keys.




1. In Idle mode, select **Menu** to access Menu mode.
2. Scroll using the Navigation keys to reach a main menu, **Phone settings** for example. Select it to enter the menu.

Note: When you select a main menu, the left soft key allows you to quickly access its most popular submenus.

3. If the menu contains submenus, **Language** for example, select it.

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

4. You can select a menu function as follows:
 - To scroll through the menus, tap the up or down arrow, press the Up or Down key, or press the Volume keys.
 - To confirm the chosen setting, tap the setting or press the **Select** soft key or the **↵** key.

- To return to the previous menu level, tap  or press the  soft key or the **C** key.
- To exit the menu without changing the settings, press the  key.

Using shortcuts

Menu items, such as menus, sub-menus, and options, can be accessed quickly by using their shortcut numbers. For the main menus, you can access any one of them by pressing the number keys (**1** to **9**) corresponding to their location on the screen.

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

Notes:

- The numbers assigned to each menu are indicated on the list on page 78. They may not match the menu number on the phone, depending on the services supported by your SIM card.
- For menu number 10, use the **0** key.

Example: Accessing the **Language** menu.

1. Press the **Menu** soft key.
2. Press the **9** key for **Phone settings**.
3. Press the **5** key for **Language**.

The languages available display.

List of menu functions

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

1. SIM AT menu* (see page 83)

2. Call records (see page 84)

- 2.1 Missed calls
- 2.2 Received calls
- 2.3 Dialed calls
- 2.4 Delete all
- 2.5 Call time
 - 2.5.1 Last call time
 - 2.5.2 Total sent
 - 2.5.3 Total received
 - 2.5.4 Reset timers
- 2.6 Call cost**
 - 2.6.1 Last call cost
 - 2.6.2 Total cost
 - 2.6.3 Max cost
 - 2.6.4 Reset counters
 - 2.6.5 Set max cost
 - 2.6.6 Price/Unit

3. Network services (see page 88)

- 3.1 Call diverting
 - 3.1.1 Divert always
 - 3.1.2 Busy
 - 3.1.3 No reply
 - 3.1.4 Unreachable
 - 3.1.5 Cancel all

* May be available only if you use a SIM AT card.

** Shows only if supported by your SIM card.

3. Network service (continued)

- 3.2 Call barring
 - 3.2.1 All outgoing
 - 3.2.2 International
 - 3.2.3 International except to home
 - 3.2.4 All incoming
 - 3.2.5 Incoming while abroad
 - 3.2.6 Cancel all
 - 3.2.7 Change barring password
- 3.3 Call waiting
- 3.4 Network selection
- 3.5 Caller ID
- 3.6 Closed user group
 - 3.6.1 Index list
 - 3.6.2 Outside access
 - 3.6.3 Default group
 - 3.6.4 Deactivate*
- 3.7 Band selection

4. Sound settings (see page 96)

- 4.1 Ring tone
- 4.2 Ring volume
- 4.3 Alert type
- 4.4 Keypad tone
- 4.5 Message tone
 - 4.5.1 SMS tone
 - 4.5.2 SMS-CB tone
 - 4.5.3 MMS tone
 - 4.5.4 Repetition
- 4.6 Slider tone
- 4.7 Power on/off
- 4.8 Alerts on call
- 4.9 Extra tones

* Shows only if the Closed user group Feature is active.

5. Messages (see page 101)

- 5.1 Text messages
 - 5.1.1 Create
 - 5.1.2 Inbox
 - 5.1.3 Outbox
 - 5.1.4 Templates
 - 5.1.5 Settings
- 5.2 Multimedia messages
 - 5.2.1 Create
 - 5.2.2 Inbox
 - 5.2.3 Outbox
 - 5.2.4 Draft
 - 5.2.5 Templates
 - 5.2.6 Settings
 - 5.2.7 MMS profile
- 5.3 Push message
 - 5.3.1 Inbox
 - 5.3.2 Receive
 - 5.3.3 Delete all
- 5.4 Delete all
 - 5.4.1 Text messages
 - 5.4.2 Multimedia messages
- 5.5 Voice mail
 - 5.5.1 Connect to voice server
 - 5.5.2 Voice server number
- 5.6 Broadcast messages
 - 5.6.1 Read
 - 5.6.2 Receive
 - 5.6.3 Channel list
 - 5.6.4 Language
- 5.7 Memory status
 - 5.7.1 Text messages
 - 5.7.2 Multimedia messages

6. Funbox (see page 125)

- 6.1 WAP browser
 - 6.1.1 Home
 - 6.1.2 Favorite
 - 6.1.3 http://
 - 6.1.4 Settings
 - 6.1.5 Clear cache
- 6.2 Fun club
 - 6.2.1 SFC home
 - 6.2.2 Service area
- 6.3 Games & More
- 6.4 Paintbrush
 - 6.4.1 Draw memo
 - 6.4.2 Memo list
 - 6.4.3 Delete all
 - 6.4.4 Memory status
- 6.5 Sounds
- 6.6 Images
- 6.7 Delete all
- 6.8 Memory status
 - 6.8.1 Games
 - 6.8.2 Sounds & Images

7. Organiser (see page 142)

- 7.1 Alarm
 - 7.1.1 Once
 - 7.1.2 Daily
 - 7.1.3 Morning call
 - 7.1.4 Remove alarm
 - 7.1.5 Autopower
- 7.2 Calendar
- 7.3 Time & Date
 - 7.3.1 Set time
 - 7.3.2 Set date
 - 7.3.3 World time
 - 7.3.4 Time format
 - 7.3.5 Date format
- 7.4 Calculator
- 7.5 To do list

7. Organiser (continued)

- 7.6 Voice memo
 - 7.6.1 Record voice
 - 7.6.2 Voice list
 - 7.6.3 Delete all
 - 7.6.4 Memory status
- 7.7 Currency exchange
- 7.8 Dictionary

8. Camera (see page 156)

- 8.1 Take photos
- 8.2 My photos
- 8.3 Video
 - 8.3.1 Record
 - 8.3.2 Video clips
- 8.4 Memory status

9. Phone settings (see page 164)

- 9.1 Activate infrared
 - 9.1.1 With PC
 - 9.1.2 With other phone
- 9.2 Display settings
 - 9.2.1 Wallpaper
 - 9.2.2 Brightness
 - 9.2.3 Back light
 - 9.2.4 Service light
 - 9.2.5 Graphic logo
- 9.3 Greeting message
- 9.4 Own number
- 9.5 Language
- 9.6 Security
 - 9.6.1 PIN check
 - 9.6.2 Change PIN
 - 9.6.3 Phone lock
 - 9.6.4 Change password
 - 9.6.5 Privacy
 - 9.6.6 SIM lock
 - 9.6.7 FDN mode*
 - 9.6.8 Change PIN2*
- 9.7 Extra settings
- 9.8 Touch calibration
- 9.9 Reset settings

* Shows only if supported by your SIM card.



SIM AT menu

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


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

Call records

In this menu, you can view the:

- calls you missed, received, or dialled.
- length of have your calls.
- cost of your calls, if your SIM card supports it.

Notes:

- You can access the numbers in the 3 types of call records by pressing the  key in Idle mode.
- The number of call records the phone can store may vary, depending on your SIM card.

Missed calls *(Menu 2.1)*

This menu lets you view the 20 most recent numbers of the calls you have received, but did not answer.

The number or name, if available, displays together with the time and date the call was received.

To dial the number, press the  key.

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


Edit: allows you to edit the number and dial it or save it in Phone book.

Delete: deletes the call from the list.

Received calls *(Menu 2.2)*

This menu lets you view the 20 most recent numbers of the calls you have received.

The number or name, if available, displays together with the time and date the call was received.

To dial the number, press the  key.

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


Edit: allows you to edit the number and dial it or save it in Phone book.

Delete: deletes the call from the list.

Dialled calls *(Menu 2.3)*

This menu lets you view the 20 most recent numbers you have dialled.

The number or name, if available, displays together with the time and date the call was made.

To dial the number, press the  key.

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

Edit: allows you to edit the number and dial it or save it in Phone book.

Delete: deletes the call from the list.

Delete all *(Menu 2.4)*

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

1. Select a call type to place a check mark. Repeat this step to select more call types.

You can remove the check mark by selecting it again.

2. Select **Delete** to delete the marked records.
3. When a confirmation message displays, select **Yes** to confirm.
4. When the phone asks for confirmation again, select **Yes**.

Call time *(Menu 2.5)*

This menu lets you view the timers for calls you have made and received.

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

The following options are available:

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

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

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

Reset timers: allows you to reset the call timers. You must first enter the phone password and then select **OK**.

Note: The password is preset to "00000000." To change this password, see page 173.

Call cost *(Menu 2.6)*

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

The following options are available:

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

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

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

Reset counters: allows you to reset the cost counter. You must first enter your PIN2 (see page 182) and then select **OK**.

Set max cost: allows you to enter the maximum cost that you authorise for your calls. You must first enter your PIN2 (see page 182) and then select **OK**.

Price/Unit: allows you to set the cost of one unit; this price per unit is applied when calculating the cost of your calls. You must first enter your PIN2 (see page 182) and then select **OK**.

Network services

These menu functions are network services. Please contact your service provider to check their availability and subscribe to them, if you wish.

Call diverting *(Menu 3.1)*

This network service enables incoming calls to be rerouted to the number that you specify.

Example: You may wish to divert your business calls to a colleague while you are on holiday.

To set your call diverting options:

1. Select a call diverting option.

The following options are available:

- **Divert always:** all calls are diverted.
- **Busy:** calls are diverted when you are already on another call.
- **No reply:** calls are diverted when you do not answer the phone.
- **Unreachable:** calls are diverted when you are not in an area covered by your service provider or when your phone is switched off.
- **Cancel all:** all of the call diverting options are cancelled.

2. Select the type of calls, voice or data.

The current status displays. If the option has already been set, the number to which the calls are diverted displays.

3. To	Select the
activate call diverting	Activate option. Go to step 4.
change the number to be called	Change option. Go to step 4.
deactivate call diverting	Remove option.

4. Enter the number to which the calls are to be diverted and select **OK**.

To enter an international code, press and hold the **0** key until the **+** sign displays.

5. If you selected **No reply** in step 1, select the length of time the network waits for before diverting a call.

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

Call barring *(Menu 3.2)*

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

To set your call barring options:

1. Select a call barring option.

The following options are available:

- **All outgoing:** calls cannot be made.
- **International:** international calls cannot be made.
- **International except to home:** when abroad, calls can be made only to numbers within the current country and to your home country, which is the country where your home network provider is located.
- **All incoming:** calls cannot be received.
- **Incoming while abroad:** calls cannot be received when you are using your phone outside of your home country.
- **Cancel all:** all call barring settings are deactivated; calls can be made and received normally.
- **Change barring password:** you can set and change the call barring password obtained from your service provider.

2. Select the type of calls, voice, or data.
3. Select **Activate** to confirm your settings.
4. Enter your call barring password supplied by your service provider.

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

To deactivate specific call barring settings:

1. Select the call barring option to be deactivated.
2. Select the type of calls to which this option applies.
3. Select **Deactivate**.
4. Enter your call barring password supplied by your service provider.

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

Call waiting *(Menu 3.3)*

This network service informs you when someone is trying to reach you during another call.

You can specify individual call waiting options for voice calls and/or data calls.

To set your call waiting options:

1. Select the type of calls, voice, or data, to which you want to apply the call waiting option.

The screen informs you whether call waiting is activated or deactivated.

2. You can activate or deactivate the call waiting feature as necessary by selecting **Activate** or **Deactivate** respectively.

You can also deactivate all call waiting settings by selecting **Cancel all**.

Network selection *(Menu 3.4)*

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

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

To automatically or manually select the network to be used when roaming:

1. Select the appropriate option.

If you select **Automatic**, you are connected to the first available network when roaming.

If you select **Manual**, go to step 2.

2. Select the network you want.

The phone will scan for that network and you will be connected.

Caller ID *(Menu 3.5)*

You can prevent your phone number from being displayed on the phone of the other person being called.

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

The following options are available:

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

Hide number: your number does not display on the other person's phone.

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

Closed user group *(Menu 3.6)*

Closed user group (CUG) is a network service which allows incoming and outgoing calls to be restricted to a selected user group. You can create up to 10 user groups.

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

For details on how to create and use a closed user group, contact your service provider.

When you select the **Closed user group** menu, you can enter the CUG function. You can access the following options:

Index list: lets you list, add, or delete CUG index numbers.

If there is no CUG index stored, you are prompted to add a new index when you select this option. Once you have added a CUG index, the list of current CUG indexes appears.

Add a new CUG index as advised by your service provider, or delete a group.

To	Select
add a new CUG index	Options , select the Add option, and enter the index.
delete a CUG index	Options and select the Delete option.
activate a CUG index	Options and select the Activate option.

Outside access: lets you enable or disable calls to numbers other than those in the Closed user group. This feature depends on the nature of your CUG subscription. Please check with your service provider.

Default group: you may set a default CUG with your service provider. If you have done so, you can enable the **Default group** option on your phone. When making a call, you are given the option of using your default CUG, instead of selecting one from the list.

Deactivate: deactivates the CUG function. This menu appears only when the default group is enabled or a CUG index is selected.

Band selection *(Menu 3.7)*

For the phone to make and receive phone calls, it must register with an available network. Your phone can handle any of the following types of networks:

- Combined GSM 900/1800
- GSM 1900

The country where you purchased your phone determines the default band that it uses. When you travel abroad, you must remember to change to an appropriate band.

1. Press the Up or Down key until the appropriate option highlights and select **OK**.
2. When the display confirms the network band you selected, select **Yes**.

To cancel the selection, select **No**.

When you select a new band, your phone automatically searches for all of available networks. Your phone registers with a preferred network within the band.

Sound settings

You can use the Sound Settings feature to customise various settings, such as the:

- ring melody, volume, and type.
- sounds made when you press a key, receive a message, open/close the phone, or switch your phone on/off.
- alert tone made every minute during a call, when you make an error, or when your call is connected to the system.

Notes:

- You can quickly access this menu by pressing the Up key in Idle mode.
- When the phone is in Silent mode (see page 35), you cannot change the sound settings.

Ring tone *(Menu 4.1)*

You can select a ring melody.

You can choose between many different melodies. If you have downloaded sounds from the Internet or the optional EasyGPRS programme, you can use them in this menu.

Ring volume *(Menu 4.2)*

You can adjust the ring volume to one of the 5 levels.

Press the UP and Down keys or the Volume keys on the left side of the phone to increase or decrease the volume.

Alert type *(Menu 4.3)*

You can specify how you are to be informed of incoming calls.

The following options are available:

Light only: the backlight of the keypad and display flashes.

Melody: the phone rings using the ring tone selected in the **Ring tone** menu.

Vibration: the phone vibrates but does not ring.

Vibra+Melody: the phone first vibrates three times and then starts ringing.

Keypad tone *(Menu 4.4)*

You can select a tone type that the phone sounds when you press a key.

To turn off the sound, select **Off**.

Message tone *(Menu 4.5)*

You can select how the phone will inform you that a new message has been received, and how often it will happen.

SMS tone *(Menu 4.5.1)*

The following options are available for alerting you to new SMS messages:

Off: the phone does not use an SMS tone.

Light only: the backlight of the keypad and display flashes.

Vibration: the phone vibrates.

Single beep: the phone beeps once.

SMS tone x: the phone uses one of several SMS tones.

SMS-CB tone *(Menu 4.5.2)*

The following options are available for alerting you to new cell broadcast messages:

Off: the phone does not use a CB tone.

Light only: the backlight of the keypad and display flashes.

Vibration: the phone vibrates.

Single beep: the phone beeps once.

SMS-CB tone x: the phone uses one of several CB tones.

MMS tone *(Menu 4.5.3)*

The following options are available for alerting you to new multimedia messages:

Off: the phone does not use an MMS tone.

Light only: the backlight of the keypad and display flashes.

Vibration: the phone vibrates.

Single beep: the phone beeps once.

MMS tone x: the phone uses one of several MMS tones.

Repetition *(Menu 4.5.4)*

In this menu, you can set how often the phone informs you of a new message.

The following options are available:

Once: The phone alerts you to a new message just once when you receive an incoming message.

Periodic: The phone alerts you to a new message every 2 minutes until you open the message.

Slider tone *(Menu 4.6)*

You can select a tone type that the phone sounds when you open or close the phone.

To turn off the sound, select **Off**.

Power on/off *(Menu 4.7)*

This menu allows you to select a melody that the phone sounds when it is switched on and off.

To turn off the sound, select **Off**.

Alerts on call *(Menu 4.8)*

You can choose whether or not the phone informs you when you receive a new message or when the time for an alarm comes during a call.

Off: the phone doesn't actively alert you to incoming messages or alarms. It only displays the corresponding notification.

On: the phone alerts you with a beep and displays the corresponding notification.

Extra tones *(Menu 4.9)*

You can customise additional tones for the phone.

To use a tone, select it to place a check mark. You can remove the check mark by selecting it again.

The following options are available:

Error tone: sets whether or not the phone informs you when you make a mistake.

Minute minder: sets whether or not the phone beeps every minute during an outgoing call to keep you informed of the length of your call.

Connect tone: sets whether or not your phone beeps when your call is connected to the system.


Messages


Using the **Messages** menu, you can use various message features, such as:

- short text messages
- multimedia messages
- WAP push messages
- voice mail
- cell broadcast messages

Text messages *(Menu 5.1)*

Short Message Service (SMS) allows you to send and receive short text messages to and from other GSM mobile phones. In addition, your phone supports the Enhanced Messaging Service (EMS), which enables you to include simple pictures, melodies, and animated images in your messages. To use this feature, you must subscribe to your service provider's message service.

When the Text Message icon () appears, you have received new text messages. If the memory is full, an error message displays and you cannot receive any new messages. Use the **Delete** option in each message box to delete the obsolete ones.

Note: You can quickly access this menu by tapping  or by pressing the Left key in Idle mode.

Create (Menu 5.1.1)

In this menu, you can write and send a text message.

Creating a simple text message

1. Create your message.

Note: For further details about how to enter characters, see page 48.

2. When you finish entering the message, select **Options**. The following options are available:
 - **Send only:** allows you to send the message. The message is deleted after sending.
 - **Save and send:** allows you to save a copy of the message and then send the message. You can read the message in your Outbox.
 - **Save only:** allows you to save the message so that it can be sent later. You can read the message in your Outbox.
 - For further details about **Add content**, **Add templates**, **Add from phonebook**, and **Add from bookmark** options, see page 103.
3. Select **Send only** or **Save and send**.

If you want to just save the message, select **Save only**. After saving the message, the phone returns to the **Text messages** menu screen.
4. If you select a save option, choose the memory location.
5. Enter a destination number and select **OK**.

The message is sent.

Note: When the phone fails to send the message, it asks you if you want to retry. Select **Yes** to confirm. Otherwise, press the **No** soft key to return to the Create screen.

Creating a text message using options

1. Create a message.
2. Press the **Options**.
3. Select one of the following options:
 - **Add content:** allows you to add a sound, melody, picture, or animated image to the message. Select the category of the object to be added. In each category, you can select from the various factory-set items or items received from other sources, such as the Internet or other phones.

Note: When you add media objects to a message, the number of characters you can enter decreases.

- **Add templates:** allows you to apply one of the preset message templates to the text. Select one of 5 items stored in the **Templates** box (**Menu 5.1.4**). For further details, see page 106.
 - **Add from phonebook:** allows you to add a Phone book entry to your message. Select one from the list.
 - **Add from bookmark:** allows you to add a web page's address stored in your Favorite list. Select one from the list.
4. Complete the message, and send or save it by following the procedure from step 2 on page 102.

Creating a long text message

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

Inbox *(Menu 5.1.2)*

This message box is used to store messages that you have received.

When you enter this menu, the list of messages in the box displays with the senders' phone numbers or names, if available in your Phone book.

1. Select a message from the list to read the message contents.
2. Scroll through the contents, if necessary.
3. Press the * or # key to scroll to the previous or next message.

While reading a message, you can choose the following options by selecting **Options**:

Delete: allows you to delete the message.

Send: allows you to send/resend the message. For further details, see page 102.

Text reply: allows you to send a reply to the sender by sending a text message.

Call back: allows you to call the sender.

Save address: allows you to extract the sender's number and URL, e-mail addresses, or phone numbers from the message text.

Move to phone: allows you to move the message from the SIM card to the phone's memory. This option is only available when you select a message stored in the SIM card.

Move to SIM: allows you to move the message from the phone's memory to the SIM card. This option is only available when you select a message stored in the phone's memory.

Select content: allows you to save media contents, such as sounds or images, from the message into your phone. You can use the contents when writing a message. For details, see page 103.

Outbox *(Menu 5.1.3)*

This message box is used to store messages that you have already sent or will send.

When you access this menu, the list of messages in the box displays with the recipients' phone numbers or names, if available in your Phone book.

1. Select a message from the list to read the message contents.
2. Scroll through the contents, if necessary.
3. Press the * or # key to scroll to the previous or next message.

While reading a message, you can choose the following options by selecting **Options**:

Delete: allows you to delete the message.

Send: allows you to send/resend the message. For further details, see page 102.

Save address: allows you to extract the destination number and URL, e-mail addresses, or phone numbers from the message text.

Move to phone: allows you to move the message from the SIM card to the phone's memory. This option is only available when you select a message stored in the SIM card.

Move to SIM: allows you to move the message from the phone memory to the SIM card. This option is only available when you select a message stored in the phone's memory.

Select content: allows you to save media contents, such as sounds or images, from the message into your phone. You can use the contents when writing a message. For details, see page 103.

Templates *(Menu 5.1.4)*

Using this menu, you can preset a maximum of 5 messages that you use most frequently.

Select an empty location or the message template you want and then **Select**.

The following options are available:

Edit: allows you to write a new message template or edit an existing message template.

Note: For further details about how to enter characters, see page 48.

Send: allows you to retrieve the message template. Once you have completed the message, you can send, save and send, or simply save it. For further details about how to send a message, see page 102.

Delete: allows you to delete the message template. You are asked to confirm the deletion by selecting **Yes**.

Settings *(Menu 5.1.5)*

In this menu, you can set up default SMS/EMS information. A setting group is a collection of settings required to send text messages. The number of setting groups available depends on the capacity of your SIM card.

Notes:

- The setting options available in this menu may vary, depending on your service provider.
- The last setting you accessed is automatically activated for sending subsequent messages.

Setting x (where **x** is the setting group number): each group has its own sub-menu.

Service centre: allows you to store or change the number of your message centre, which is required when sending messages. You must obtain this number from your service provider.

Default destination: allows you to store a default destination number. The number automatically displays on the Destination screen when you create a message.

Messages

Default type: allows you to set the default message type to **Text**, **Fax**, **E-mail**, or **Paging**. The network can convert the messages into the selected format.

Validity period: allows you to set the length of time your text messages are stored in the message centre while attempts are made to deliver them.

Setting name: allows you to give a name to the setting group currently being defined.

Common setting: The following options are available:

Reply path: allows the recipient of your message to send you a reply through your message centre, if your network supports this service.

Delivery reports: allows you to activate or deactivate the report function. When this function is activated, the network informs you whether or not your message has been delivered.

Bearer selection: allows you to choose either **GSM** or **GPRS**, depending on your network.

Multimedia messages *(Menu 5.2)*

Multimedia Message Service (MMS) is a service providing delivery of personal multimedia messages from phone to phone or from phone to e-mail.

In addition to the familiar text content, multimedia messages can contain images, audio clips, and combinations of these things. Images could include downloads and photos you have taken, while audio clips could be downloaded or recorded sounds, or voice memos. Using MMS, your phone can send and receive these multimedia messages.

This function is available only if it is supported by your service provider. Only phones that offer multimedia messaging features can receive and display multimedia messages.

Note: When you buy media content from the Internet, this content is delivered to you in MMS messages. You can retrieve the messages from the server and then save the items in your phone's memory. You cannot forward these messages to other people or add the saved items to an MMS message.

Create *(Menu 5.2.1)*



This menu allows you to create a new multimedia message and then send it to multiple destinations.

Creating and sending a multimedia message

1. Enter the subject of your message and select **OK**.

For further details about how to enter characters, see page 48.

2. When **Add here** highlights, select **Options** and add the message contents using one of the following options:
 - **Add text:** allows you to enter the message text.
 - **Add photo:** allows you to add a photo. You can take a new photo or select one of photos saved in your phone's memory. For further details about using the camera, see page 156.
 - **Add picture:** allows you to add a picture stored in the **Images** folder (**Menu 6.6**). You may not be able to add some downloaded images if they are not in the correct format.
 - **Add sound:** allows you to add a sound file. You can record a new voice memo or select a sound clip from the **Voice list (Menu 7.6.2)** or **Sounds** folder (**Menu 6.5**). For details about recording voice memos, see page 152. You may not be able to add some downloaded sounds if they are not in the correct format.
 - **Add paintbrush:** allows you to add a memo made in Paintbrush. You can create a new memo or select one of the memos stored in the phone's memory. For further details, see page 136.
 - **Send:** allows you to send the message. Use this option when you finish creating the message.
 - **Save:** saves the message in the **Draft (Menu 5.2.4)** or **Templates** box (**Menu 5.2.5**) for later use. For further details, see page 118.

- **Settings:** allows you to change the message settings. For further details about each setting option, see page 119. After changing the settings, you need to select  or press the **C** key to go back to the Write options screen.
- **Add destination:** allows you to enter destination numbers or addresses. See steps 6 to 10. After adding them, you need to select  or press the **C** key to go back to the Write options screen.
- **Preview:** shows the message you created.


Note: You can add text, an image and a sound once for each page.

3. Repeat step 2 until you have finished creating your message.
4. If you want to change the added items, highlight one and select **Options** to display the Write Options list.

Note: Available options are different, depending on whether the item you select on the message screen is text, an image, a sound, or the Page field.


The following options are available:

- **Edit text/picture/sound:** allows you to change the text or replace the image or sound with another one.
- **Add page:** allows you to add up to 5 pages. After you add a page, the display shows you the current page number and memory space used for the page. You can move to each page using the Left or Right key on the message screen.

- **Delete:** deletes the item from your message.
 - **Duration:** allows you to set when and how long text, an image, a sound, or a page displays on the message presentation screen. If the duration you set is shorter than the content duration (for example, the length of sound clip) for a particular page, the content duration is automatically decreased.
 - **Send:** allows you to send the message.
 - **Save:** saves the message in the **Draft (Menu 5.2.4)** or **Templates** box (**Menu 5.2.5**) for later use. For further details, see page 118.
 - **Settings:** allows you to change the message settings. For further details about each setting option, see page 119.
 - **Add destination:** allows you to enter destination numbers or addresses. See steps 6 to 10. After adding them, you need to select  or press the **C** key to go back to the Write options screen.
 - **Preview:** shows the message you created.
5. When you are finished creating the message, select **Send**.
 6. Select a destination type (**To**, **Cc**, or **Bcc**).
 7. Choose one of the following options:
 - **Phone number:** allows you to enter the phone number you want.
 - **E-mail:** allows you to enter the e-mail address of the recipient.
 - **Phone book:** allows you to retrieve a number from your Phone book.

8. Enter a number or an e-mail address and **OK**, or select a number from Phone book.
9. To add a destination, select **Add destination** and repeat from step 7.

If you want to edit the destinations, choose the one you want and then **Select**. You can change or delete it.

10. To enter additional numbers or addresses to the other destination types, select  and repeat steps 6 through 10.


You can enter up to 10 destinations each for **To**, **Cc**, and **Bcc**.

11. When you are finished entering the destinations, select **Send message**.

Your phone sends the message.

Inbox *(Menu 5.2.2)*

Viewing a message when you receive it

When a new multimedia message comes in, the display shows the MMS Message icon () and a text notification along with the message subject.

1. Choose **Select** to view brief information about the message, such as the sender's number, the message size and the subject.

If you want to view the message later in the Inbox, select **Exit** or press the **C** key.


2. Scroll through the message information, if necessary.

You can access the following options by selecting **Options**:

- **Retrieve**: retrieves the message from the MMS server.
- **Delete**: deletes the message.
- **More properties**: shows you detailed information about the message.








3. To read the message, select **Retrieve**.

Your phone retrieves the message contents from the server and displays it.

4. Scroll through the message, if necessary.
5. When you are finished, press the  key.

Viewing a message from the Inbox

When you access the **Inbox** menu (**Menu 5.2.2**), the list of multimedia messages you have received displays along with the message subjects. The icons on the left tell you the status of the messages:

- : MMS notifications that have been opened.
- : MMS notifications that have not been opened.
- : You have sent an enquiry to the MMS server requesting the message be sent to your phone.
- : The MMS server is processing your request.
- : The MMS server is unable to send the message to your phone.
- : Messages that have been opened.
- : Messages that have not been opened.

To view a message:

1. Select a message on the list.

The phone presents the message and scrolls to the next page, if it has one, after a specified time.

2. Press the **OK** to go to the message view screen.

Or, the display automatically switches to the screen after a few seconds.

3. Press the Up or Down key to scroll through the message.

If the message has more than one page, you can scroll through the pages by using the Left and Right keys.

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

While viewing a message, you can choose the Message options by selecting **Options**.

If you are viewing a new message, the options are the same as when you view a message at the time of its receipt. See page 114.

When you are reviewing a message retrieved from the MMS server, the following options are available:

Delete: allows you to delete the message.

Reply: allows you to send a reply to the sender by sending a text or multimedia message.

Callback: allows you to call the sender.

Save address: allows you to extract the sender's number or e-mail address and URL, e-mail addresses, or phone numbers from the message text.

Forward: allows you to forward the message to another person. When the message contains media contents you have bought on the Internet, forwarding is not available.





Save picture: allows you to save an image from the message into your phone. Pictures are stored in the **Images** folder (**Menu 6.6**).

Save sound: allows you to save a sound from the message into the **Sounds** folder (**Menu 6.5**).

Properties: shows you information about the message, such as the message status, subject, sender's e-mail address or phone number, message size, priority, and the time and date the message was received.

Outbox *(Menu 5.2.3)*

When you access this menu, the list of the multimedia messages you have sent displays. The icons on the left tell you the status of the messages.

- : Messages currently being sent.
- : Messages sent.
- : Messages your phone couldn't send.
- : Messages to be sent.

To view a message:

1. Select a message on the list.

The phone presents the message and scrolls to the next page, if it has one, after a specified time.

2. Select **OK** to go to the message view screen.

Or, the display automatically switches to the screen after a few seconds.

3. Press the Up or Down key to scroll through the message.

If the message has more than one page, you can scroll through the pages by using the Left and Right keys.

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

Messages

While viewing a message, you can choose the following options by selecting **Options**:

Delete: allows you to delete the message.

Save address: allows you to extract the destination numbers or e-mail addresses and URL, e-mail addresses, or phone numbers from the message text.

Send: allows you to send/resend the message.

Edit: allows you to change the message contents, sound, picture, or text.

Properties: shows you information about the message, such as the message status, subject, sender and recipients' e-mail addresses or phone numbers, message size, priority, and the time and date the message was sent.

Draft *(Menu 5.2.4)*

After creating a multimedia message, you can store it in this message box for later sending.

For further details about viewing a message, see "Outbox" on page 117.

Templates *(Menu 5.2.5)*

This menu stores messages you have saved as templates so that you can use them to make new messages.

Select a message template from the list. The phone presents the message. To scroll to the previous or next messages template, press the * or # key.

Select **OK** to access the following options, or the display automatically shows the options after a specified time:

Edit: allows you to send a message using the template. For further details about how to send a message, see page 109.

Delete: allows you to delete the message template. You are asked to confirm the deletion by selecting **Yes**.

Settings *(Menu 5.2.6)*

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

The following options are available:

Delivery report: when this option is enabled, the network informs you whether or not your message has been delivered.

Read reply: when this option is enabled, your phone sends a request for a reply along with your message to the recipient.

Auto download: you can set whether or not your phone retrieves new incoming messages from the MMS server without notifications.

Off: you need to manually download new messages by using the **Retrieve** option.

On: the phone automatically retrieves new messages from the server. As soon as you receive a message you can use more options while you are reading. See page 114 for details about the options.

Off when roaming: the phone automatically downloads new messages unless you are roaming on another network or in another country.

Message acceptance: you can specify the category of messages you want to receive.

Hide ID: when this option is enabled, your phone number does not display on the recipient's phone.

Validity period: you can select the length of time your messages are stored in the message centre after they are sent.

Delivery time: you can set a delay time before the phone sends your messages.

Priority: you can select the priority level of your messages.

Report allowed: when this option is enabled, the sender of an incoming message receives a delivery report from the network.

Page duration: you can set the length of time one page of an outgoing message displays on the message presentation screen. After a specified time, the display automatically scrolls to the next page.

MMS profile (*Menu 5.2.7*)

In this menu, you can configure various network settings that are required when you send or receive multimedia messages.

Notes:

- The last profile you accessed is automatically activated for sending subsequent messages.
- If you change the MMS settings without first checking with your service provider, the MMS feature may not work properly.

The following options are available for each profile:

Profile name: enter a name that you wish to assign to the MMS server.

Connection URL: enter the address of your MMS server.

Security: select a data transmission mode. Choose **Secure** to protect your data against unauthorised access; otherwise, choose **Non-secure**.

IP address: enter the gateway address required to connect to the MMS server.

User name: enter the user ID required to connect to the MMS server.

Password: enter the password required to connect to the MMS server.

APN: enter the access point name used for the address of the MMS server.

For further details, contact your service provider.

Push message *(Menu 5.3)*

In this menu, you can receive and access web messages from the server.

The following options are available:

Inbox: allows you to read the messages received from the web server.

Receive: allows you to set whether or not your phone receives web messages. Select **Always** to receive web messages, or **Never** to reject web messages.

Delete all: allows you to delete all of the web messages.

Delete all *(Menu 5.4)*

You can delete all of the messages in each message box. You can also delete all of your messages at one time.

1. Select a message type.
2. Select a message box to place a check mark. Repeat this step to select more boxes to be cleared.
You can remove the check mark by selecting the box again.
3. Select **Delete** to delete the marked messages.
4. When a confirmation message displays, select **Yes** to confirm.
5. When the display asks for confirmation again, select **Yes**.

Voice mail *(Menu 5.5)*

This menu allows you to access your voice mail box, if your network supports this service.

The following options are available:

Connect to voice server: before using the Voice Mail feature, you must enter the voice server number obtained from your service provider. You can then select this option to listen to your voice messages.

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

Voice server number: allows you to change the voice mail server number, if necessary.

Note: Voice Mail is a network feature. Please contact your service provider for further details.

Broadcast messages *(Menu 5.6)*

This network service allows you to receive text messages on various topics, such as the weather or traffic.

Cell Broadcast (CB) messages display as soon as they are received, provided that:

- the phone is in Idle mode.
- the **Receive** option is set to **Enable**.
- the message channel is currently active on the channel list.

The following options are available:

Read: lets you view the received messages.

The **Volatile** box displays messages from the network, but loses its contents as soon as the phone is switched off. Scroll through the message by using the Up and Down keys.

You can save a CB message in the **Archive** box for later retrieval. When a text notification appears, select **Options** and then select **Save**.

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

Channel list: allows you to indicate the channels from which you wish to receive broadcast messages. The following options are available:

Select: use to enable or disable channels on the list by marking or unmarking them, respectively. A check mark displays in front of each selected channel.

Add channel: use to enter the ID and title for a new channel.

Delete: use to remove a channel from the list.

Edit: use to change the ID and title of an existing channel.

Language: allows you to select your preferred language in which to display cell broadcast messages.

Please contact your service provider for further details.

Memory status *(Menu 5.7)*

You can check the amount of the memory being used and the memory remaining for messages.

The following options are available:

Text messages: shows the number of messages currently stored and the total number of messages you can store in the SIM, Phone, and Broadcast memories.

Multimedia messages: shows the total space, including the free and used space, and how much space is currently occupied by each message box.

The **Funbox** menu contains several fun options.

WAP browser *(Menu 6.1)*

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

Home *(Menu 6.1.1)*

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

The contents of the WAP Browser startup homepage depends on your Wireless Web service provider. To scroll through the screen, use the Up and Down keys.

Note: To go to the startup homepage from any other screen in the WAP browser, use the **Home** option. For further details about the WAP Browser menu options, see page 127.

Exiting the WAP browser

To exit the browser at any time, simply press and hold the **⏏** key.

Navigating the WAP browser

To	Press the
scroll through browser items	Up or Down key.
select a browser item	OK soft key.
return to the previous page	Back soft key or the C key.
return to the startup homepage	✕ key for more than 2 seconds and select the Home option. For further details about this option, see page 127.

Entering text in the WAP browser

When you are prompted to enter text, the currently active text input mode is indicated on the screen. To change the text input mode, press the **i** key one or more times.

The following modes are available:

Upper-case character mode (A): allows you to enter upper-case English characters.

Lower-case character mode (a): allows you to enter lower-case English characters.

Note: You can also enter special characters in Upper-case or Lower-case Character mode. For details about available characters, see page 64.

T9 mode (T9): allows you to enter English characters by pressing one key per letter. In this mode, you can use only the **0** key to display alternative words. To change case, press the ✕ key.

Number mode (1): allows you to enter numbers.

Selecting and using browser menu options

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

To access a menu option:

1. Press and hold the **✕** key.
A menu list displays.
2. Highlight a menu by pressing the Up or Down key.
3. Select an option by pressing the **Select** soft key or the **⏎** key.
4. If necessary, select a secondary option using the Up and Down keys, and press the **Select** soft key or the **⏎** key to confirm.

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

The following options are available:

Reload: reloads the current page.

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

Go to URL: allows you to manually enter the URL address of a web page. After entering an address, press the **OK** soft key to go there directly.

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

To	Press the
set the current page as your startup home page	Options soft key and select the Save to Home option.
set a bookmark for the current page	Options soft key and select the Save to Bookmark option.
cancel your setting	Back soft key.

Edit home: allows you to change the startup home page manually. Enter the URL and press the **OK** soft key. For further details about entering text, see page 48.

Clear cache: deletes the information stored in the cache. The cache stores the most recently accessed Web pages.

Inbox: allows you to read messages received from the web server.

Favorite *(Menu 6.1.2)*

This menu allows you to store the URL addresses of up to ten of your favourite web sites. You can access this menu directly by pressing and holding the # key while using the WAP browser.

To store your favourite web site:

1. Select an empty location.
2. Enter the address you want to store and select **Enter**.

For further details about how to enter characters, see page 48.

3. Enter a name for the item and select **Enter**.

After saving an item, you can access the following options when you select **Options**:

Go to URL: takes you to the corresponding web site.

Edit: allows you to change the address and the name of the item.

Delete: allows you to delete the item.

http:// (Menu 6.1.3)

You can manually enter the URL address of the a web site that you wish to access.

After entering an address, select **Enter** to access the associated site.

For further details about how to enter characters, see page 48.

Settings (Menu 6.1.4)

You can set up 6 proxy servers for the WAP browser. Contact your service provider for details about your Settings options.

Note: The availability of the setting options may vary, depending on your country.

For each server, the following options are available:

Profile name: enter a name that you wish to assign to the HTTP proxy server.

Homepage URL: set the address of your startup homepage. When the default homepage displays, you can delete it using the **C** key and enter your own choice.

Security: select a data transmission mode. Choose **Secure** to protect your data against unauthorised access; otherwise, choose **Non-secure**.

Bearer: select a bearer to be used for each type of network address accessed; **GPRS** or **Data**.

The remaining options depend on the Bearer setting.

When the bearer is set to **GPRS**:

IP address: enter the WAP gateway address required to connect to the Internet.

User name: enter the user ID required to connect to the GPRS network.

Password: enter the password required to connect to the GPRS network.

APN: enter the access point name used for the address of the GPRS network gateway.

When the bearer is set to **Data**:

IP address: enter the WAP gateway address required to connect to the Internet.

Login name: enter the PPP server login ID.

Password: enter the PPP server password.

Dial-up number: enter the PPP server phone number.

Data call type: select a data call type; **Analogue** or **ISDN**.

Note: The WAP browser settings may vary, depending on the service provider. Contact your service provider for further details.

Clear cache *(Menu 6.1.5)*

You can clear the information stored in the cache, the phone's temporary memory in which the most recently accessed Web pages are stored.

Fun club *(Menu 6.2)*

You can access Samsung Fun Club (SFC) on the wireless web and download a variety of media items, such as melodies and images.

Note: You can quickly access Samsung Fun Club by pressing the **z** key in Idle mode and then selecting **Fun club**.

Samsung Fun Club is the preset web site providing Samsung phone users with attractive download services.

You can download:

- images and ring tones via SMS.
- 4-level grayscale and colour images from WAP.
- 64-polyphonic melodies from WAP.
- customer services.
- information and electronic catalogues for Samsung Electronics products.

SFC home *(Menu 6.2.1)*

In this menu, you can access the Samsung Fun Club homepage.

Note: Before accessing Samsung Fun Club for the first time, please connect to your service provider's WAP homepage first. Then reconnects to Samsung Fun Club. This service requires WAP subscription and is unavailable depending on your local system and services.

Service area *(Menu 6.2.2)*

Each time you move to HongKong or China, you need to change this setting to use the SFC service, according to the area where you are. You can choose either **China** or **China HK**.

For further details about this service, contact your service provider.

Games & More *(Menu 6.3)*

You can enjoy the Match Match game, which is a touch game, and Java applications.

Note: You can download java applications from the WAP browser. Java services may not be available depending on your service provider.

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

Launching the Match Match game

You can enjoy the Match Match game, which is a touch game.

The object of this game is to find all of matching pairs of cards as quickly as possible. Your score will increase based on speed and accuracy. Have a fun time and improve your memory skill.

To start a game:

1. Select **Match Match**.

On the startup screen of the game, the following options are available:

- **New game:** starts a new game.
- **High score:** shows the 5 highest scores.
- **Setting:** allows you to select the time limit for one game and select the theme of the card.
- **Help:** opens the help screen.

2. Select **New game**.

3. Select two of the cards by tapping on the card.

If both cards are the same, those cards will stay flipped over. If they are different, remember what is on the card so you can try again. After a few seconds, they will return to their face down position.

4. Select more cards.

The game is over when you have matched all of the pairs and all the cards are flipped over. Then you can continue the game at the next level.

Notes:

- You can pause the game by pressing the **C** key. To resume, tap anywhere on the screen.
- To exit the current game, tap **X** on the bottom of the screen.

Launching a Java game

Notes:


- The following procedure is for the default games. For downloaded games, the procedure may be different.
- While playing a Java game, you are unable to use the touch screen.


1. Select **BubbleSmile** or **MobileChess** on the game list.
2. On the startup screen of the MIDlet, scroll to an option using the Navigation keys or the **2**, **4**, **6**, and **8** keys.

The following options are available:

- **START GAME**: starts a new game.
- **CONTINUE**: allows you to continue the last game you played, if you were interrupted during the game.

- **HIGH SCORE:** shows the high score table. This option may not be available for some games.
- **HOW TO PLAY:** shows how to play the game and the key functions for the game.
- **OPTION:** allows you to switch the game sound on or off.

3. Press the **5** key or the  key to confirm your selection.

While you are playing a game, to	Press the
adjust the sound volume	Volume keys.
stop the game and return to the startup screen	C key.
exit the game	 key.


Viewing MIDlet Information

1. Scroll to the MIDlet you want on the game list and select **Info**.

The display shows information about the MIDlet, such as the file size, application version, and its vendor.

2. Press the Navigation keys to scroll to other MIDlet information.
3. If you want to delete the MIDlet, select **Delete** and then select **Yes** to confirm the deletion.

Note: When you select default games from the list, the **Delete** option is not available.

4. To exit and return to the game list, select .

Entering text

If you need to enter text while using a MIDlet, you can use the following input modes:

Upper-case character mode (A): allows you to enter upper-case English characters.

Lower-case character mode (a): allows you to enter lower-case English characters.

Number mode (1): allows you to enter numbers.


Symbol mode: allows you to enter symbols. After highlighting a symbol by pressing the Navigation keys, press the **OK** soft key or the **↵** key to insert it.

T9 mode (T9): allows you to enter English characters by pressing one key per letter. In this mode, you can change the case by pressing the **0** key.

To change the text input mode, press the ***** key until the appropriate indicator appears.

Paintbrush *(Menu 6.4)*

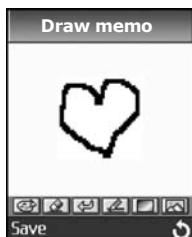
In this menu, you can make a memo by drawing a sketch using the stylus pen on the touch screen yourself.

Note: You can quickly access this menu by tapping  in Idle mode.







Draw memo *(Menu 6.4.1)*

This menu allows you to make a new memo. When you access this menu, an empty memo screen appears.

1. Draw a sketch using the stylus pen on the screen.



You can use the following tools at the bottom line of the screen:

Tool	Function
	Clears your drawing on the screen.
	Erases the drawing as you move the stylus.
	Cancels you last action.
	Opens the line picker screen so that you can change the line thickness.
	Opens the colour picker screen so that you can change the colour of the line.
	Allows you to set a photo as a background image for the Draw memo screen.

2. When you are finished, select **Save** to save the memo.
3. If necessary, clear the default name using the **C** key.

4. Enter a memo name and press **OK**.

For further details about how to enter characters, see page 48.

5. After saving the memo, choose one of the following options:
 - Select **New** to create a new memo.
 - Select **Options** to access the memo options. For further details about the options, see below.

Memo list *(Menu 6.4.2)*

You can review your sketch memos. The display shows the memos in Thumbnail mode.

To view a memo on the full screen, select **View**. To return to Thumbnail mode, select **Multi**.

On the memo list, select **Options** to access the following options:

Send: allows you to send the memo as a part of a multimedia message. For further details, see page 109.

Set as wallpaper: allows you to set the memo as your wallpaper for the idle screen.

Protection: allows you to protect the memo from being deleted.

Delete: allows you to delete the memo.

Delete all: allows you to delete all memos.

Rename: allows you to change the memo name.

Edit: allows you to edit the memo.

Properties: shows you information about the memo, such as the title, the time and date it was saved, image size, protection status, and file size.

Delete all *(Menu 6.4.3)*

In this menu, you can delete all memos. When a confirmation message appears, select **Yes**. Otherwise, select **No**. When the phone asks for confirmation again, select **Yes**.

Memory status *(Menu 6.4.4)*

In this menu, you can check the percentage of the memory being used and the remaining memory for memos, including the number of memos you have stored and the total number of memos you can store.

Sounds *(Menu 6.5)*

In this menu, you can listen to the sounds downloaded from the web server or received in multimedia messages. You can set the downloaded sounds as the current ring tone.

Scroll to the sound you want to listen and press the **Play** soft key or the **↵** key.

By selecting **Options**, you can access the following options:

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

Delete: allows you to delete the sound.

Set as ringtone: allows you to set the sound as your ring tone.

Images *(Menu 6.6)*

In this menu, you can view the images downloaded from the web server or received in messages. You can set the downloaded pictures as the current background image. If you set a photo or a memo made in Paintbrush as your wallpaper, it is designated as **My photo. icon** on the list.

Scroll to the photo you want to view and press the **View** soft key or the **↓** key.

By selecting **Options**, you can access the following options:

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

Delete: allows you to delete the image.

Set as wallpaper: allows you to set the image as your wallpaper.

Delete all *(Menu 6.7)*

This menu allows you to delete all of the downloaded contents in the **Games**, **Sounds**, and **Images** folders. You can delete all of the contents at one time.

1. To	Press the
select a folder to clear	Up or Down key. To delete all of your items, select All .
place or remove a check mark	↓ key.

2. Press the **Delete** soft key to delete the marked item.
3. When a confirmation message displays, press the **Yes** soft key or **i** key to confirm.
4. When the phone asks for confirmation again, press the **Yes** soft key or **i** key.

Memory status *(Menu 6.8)*

You can check the memory being used and the memory remaining for games, sounds, and images.

The following options are available:

Games: the display shows the percentage of the free and used space for games, as well as the number of the games you have downloaded.

Sounds & Images: the display shows the percentage of the free and used space, including the memory status used for items in the **Sounds** and **Images** menus. You can also view the number of sounds and images you have stored and the total number of sounds and images you can store.

Organiser

The Organiser feature enables you to:

- set an alarm so that the phone rings at a specific time, for example, to remind you of an appointment.
- view the calendar and organise your schedule.
- set the current time and date.
- use the phone as a calculator for basic mathematical equations or currency exchange operations.
- define a list of things to do.
- record voice memos.
- use a Chinese-English or English-Chinese dictionary.

Alarm *(Menu 7.1)*

This feature allows you to:

- set the alarm to ring at a specific time.
- set the phone to switch on automatically and ring the alarm, even if the phone is switched off.

The following options are available:

Once: the alarm rings just once and is then deactivated.

Daily: the alarm rings every day at the same time.

Morning call: the alarm rings to wake you up in the morning.

To set an alarm:


1. Choose the type of alarm to be set.
2. Enter the time for the alarm to sound and tap **OK**.

Note: Your phone is preset to a 24-hour format. To change the format, see page 147.

If you want to access the alarm options, select **Options**. The following options are available:

- **Remove alarm:** deactivates the current alarm.
- **Alarm sound set:** allows you to select the alarm melody.

3. If applicable, select **AM** or **PM**.
4. If you select **Morning call** in step 1, choose the repeat option, **Monday to friday** or **Monday to saturday**.

To stop the alarm when it rings, select  or press any key.

Remove alarm: deactivates all alarm settings.

Autopower: when this option is set to **Enable**, the alarm rings at the specified time, even if the phone is switched off.

If the option is set to **Disable** and the phone is switched off at the specified time, the alarm does not ring.

Calendar *(Menu 7.2)*

With the Calendar feature, you can:

- consult the calendar and check your memos.
- write memos to keep track of your schedule.
- set an alarm to act as a reminder.

Consulting the calendar

When you select the **Calendar** menu, the calendar with today's date highlighted displays. On the bottom line, the date in the lunar calendar appears.

The following options are available when you select **Options**:

Search all: displays all of the memos, starting with the oldest, regardless of the day.

Delete all: allows you to delete all of the memos. You are asked to confirm your action.

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

Exit: exits the Calendar feature and returns to Idle mode.

Writing a memo

You can make up to 100 memos for the calendar. More than one memo can be made for one day.

To write or edit a memo on a specific date:

1. Select a date on the calendar.

Note: To skip to the previous or next month, press the Volume keys on the left side of the phone.

An empty memo screen displays allowing you to enter your memo.

2. Enter your memo and then select **OK**.

Note: For further details about how to enter characters, see page 48.

You are asked if you wish to set an alarm.

3. If you want an alarm to ring on the chosen day, select **Yes**. Continue the next steps.

Otherwise, select **No**. The memo is saved and the display returns to the calendar.





4. Enter the time for the alarm and tap **OK**.

Note: Your phone is preset to a 24-hour format. To change the format, see page 147.

You can also select the melody for the alarm by selecting **Melody**.

5. If applicable, select **AM** or **PM**.

The colour of the date on the calendar changes to orange to indicate that a memo exists for that date.

When the time for an alarm comes and the phone is ringing the selected alarm melody, select **View** or press the  or  key to read the associated memo. Alternatively, select  or press the **C** or  key to stop the alarm.

Viewing a memo

When you select a day on which more than one memo already exists, the latest memo for the day displays.

In that case, press the Up or Down key or tap the left or right arrow to scroll to the previous or next memo.

You can access the following options by selecting

Options:

New: allows you to add a new memo.

Edit: allows you to change the memo text.

Alarm: allows you to set an alarm to ring at a specified time to remind you of the memo. If you have already set an alarm for that memo, you can change or delete the alarm.

Delete: allows you to delete the memo.

Copy to: allows you to copy the memo to another date.

Move to: allows you to change the date of the memo.

Send via IrDA: allows you to send the memo to another phone via the infrared port. For details, see page 167.

Time & Date *(Menu 7.3)*

You can change the current time and date displayed. You can also find out what time it is in another part of the world.

The following options are available:

Set time: allows you to enter the current time.

Note: Before setting the time, you must specify your time zone in the **World time** menu.

Set date: allows you to enter the day, month, and year.

World time: allows you to find out what time it is in another part of the world.

The screen shows the:

- city name, the time difference between the selected city and your time zone, and the current time and date.
- city selected as your time zone and the current time and date.

To select your time zone:

1. Scroll to the city corresponding to your time zone using the Left or Right key.

The local time and date display.

2. Select **Set**.

Time format: allows you to change the time format to **24 hours** or **12 hours**.

Date format: allows you to change the date format.

Calculator (Menu 7.4)

With this feature, you can use the phone as a calculator.

Using the basic calculator

When you select the **Calculator** menu, your phone displays a basic calculator which allows the basic arithmetic functions; addition, subtraction, multiplication, and division.


1. Enter the first number.

Notes:

- To move the cursor to the left or right, press the \ast or $\#$ key.
- To include a decimal point or bracket, press the left soft key until the symbol you want displays.


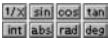











2. Tap the appropriate arithmetic symbol you want.
3. Enter the second number.
4. To view the result, tap $=$.
5. Repeat step 1 to 4 as many times as required.

Using the advanced calculator

To use the advanced calculator, tap () on the Calculator screen.



The advanced calculator provides you with scientific calculations using trigonometric functions, logarithms, and factorials, as well as the 4 basic arithmetic functions.

	changes the format of the calculator to binary, octonal, decimal, or hexadecimal.
	selects or enters various scientific calculation factors.
	clears your input forward.
	clears your input backward.
	shows the result of your calculation.
	switches to the basic calculator screen.
	clears the last number you entered.
	clears any value stored in the calculator's memory.
	retrieves the stored value from the calculator's memory.
	saves the current value in the calculator's memory.
	adds the current value to the value stored in the calculator's memory, and then saves the result in the memory.
	moves the cursor to the left/right/up/down. Pressing any of these keys with the result displayed shows the expression of your calculation.
	exits the calculator.

To do list *(Menu 7.5)*

This feature allows you to:

- enter a list of tasks to be done.
- assign a priority and a deadline to each task.
- sort the tasks by priority and status.

Creating the To do list




1. Select **New**.
2. Enter the first task.

Note: For further details about how to enter characters see page 48.

3. Select **OK**.
4. Select a priority level of high, normal, or low.
5. Enter your deadline and tap **OK**.

If you don't want to set the deadline, select **Skip**.

Editing the To do list

When you select the **To do list** menu, the tasks display with a check mark, if a task has been done, and its priority level indicator;  for High,  for Normal, and  for Low.

Note: You can change the status of a specific task, press the ✖ key. The task is marked as completed as of the current time and date.

Select it from the list to view the details for a task. You can scroll to other task by pressing the Up or Down key or tapping the left or right arrow.

By selecting **Options** on the list or the task view, you can access the following options:

New: allows you to create a new task.

Mark: allows you to change the status of a task. Select the appropriate status (**Done** or **Undo**).

Edit: allows you to edit a task. You can change the text, priority, and/or deadline for the task.

Sort: allows you to sort the existing tasks by priority or status. Select the sort criterion (**High**, **Low**, **Done**, or **Undo**).

Copy: allows you to copy a task.

Copy to calendar: allows you to copy a task to the calendar as a memo. You can also change the text and deadline for the task and/or set the alarm.

Delete: deletes a task.

Delete all: allows you to delete all tasks.

Exit: exits the **To do list** menu.

Voice memo *(Menu 7.6)*

In this menu, you can record voice memos. After recording, you can send a memo to other people via Multimedia Message Service (MMS).

Note: You can quickly access this menu by pressing the Right soft key in Idle mode.

Record voice *(Menu 7.6.1)*

You can record a new memo. When you select this menu, the display shows a 30-second timer.

1. To start recording, select **Record**.
2. Record a memo by speaking into the microphone.
3. When you select **Stop** or if the recording time goes off, the following options display:
 - **Replay:** plays back your memo.
 - **Re-record:** discards the memo and enables you to record another one.
 - **Save:** allows you to save the memo.
 - **Quit:** cancels your recording and exits the **Record voice** menu.
4. To save the memo, select **Save**.
5. Press the **C** key to clear the default name, if necessary, and enter a name for the memo.

For further details about how to enter characters, see page 48.

6. When you are finished, select **OK**.

The memo is saved and then the display shows the memo information.

After saving, the phone displays the information about the memo. Select **Options** to access the following memo options:

Send: allows you to send the memo to other people by using the MMS feature. Follow the procedure on page 109.

Rename: allows you to change the memo's name.

Delete: allows you to delete the memo.

Voice list *(Menu 7.6.2)*

This menu shows a list of saved voice memos.

Select a memo or select **Options** to access the following options:

Play: plays the memo.

Send: allows you to send the memo to other people by using the MMS feature. See page 109 for further details about sending a message.

Rename: allows you to change the memo's name.

Properties: displays information about the memo, such as the name, the date the memo was made, recording duration, and memory size.

Delete: allows you to delete the memo.

Delete all (Menu 7.6.3)

In this menu, you can delete all of your voice memos.

When the confirmation message appears, select **Yes**. When the display asks for your confirmation again, select **Yes**.

Memory status (Menu 7.6.4)

In this menu, you can check the number of memos you have recorded and the total number of memos you can record.

Currency exchange (Menu 7.7)

Using this menu, you can figure out currency conversions.

1. Enter the current exchange rate of your source currency and select **OK**.

You can insert a decimal point by pressing the **#** key.

2. Enter the amount to convert and select **OK**.


The amount you entered and its equivalent value display.

3. Select **S** or press the **C** key to exit the currency convertor.

Dictionary (Menu 7.8)

Your phone provides you with an English-Chinese or Chinese-English dictionary.

Each dictionary supports both simplified Chinese and traditional Chinese.

Note: You can quickly open the **Dictionary** screen by tapping  in Idle mode.

To look for a word from the dictionary:

1. Select **Input**.
2. Enter the Chinese or English word you want to look up.

For further details about how to enter characters, see page 48.

3. Select **OK**.

The displays shows the pronunciation of the associated word you entered and the corresponding English or Chinese words.

If you entered an English word, you can view the word in simplified Chinese or traditional Chinese by tapping **T** or **S** on the right of the input field.

4. To look up another word, repeat from step 1.

Camera

Using the camera module in your phone, you can take photos of people or events while on the move. Additionally, you can send photos to other people in a multimedia message or set it as a wallpaper or as a caller ID image for a Phone book entry.

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

Note: In Idle mode, you can quickly enter the **Camera** menu by pressing the Down key.

CAUTION:

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

Take photos *(Menu 8.1)*

You can take photos. Your camera produces JPEG photos.

Note:

- When you take a photo in direct sunlight or in bright conditions, shadows may appear on the photo.
- Depending on the currently selected camera mode, available options may vary.

1. Accessing the **Take photos** menu turns on the camera on the top left of your phone. You can also press and hold the Down key in Idle mode.

The image to be captured appears on the display.


2. Adjust the image by rotating the camera module and aiming it at the subject.

You can access the camera options by selecting **Options**. For details of each option, see the following page.

You can change the image settings or the camera mode by using the keypad. For details, see page 159.

3. Select **Take** to take the photo.

4. Select **Save** to save the photo.

To discard the photo, select .

5. If necessary, clear the default name using the **C** key.

6. Enter a photo name and select **OK**.

For further details about how to enter characters, see page 48.

7. Choose one of the following options:

- To use the photo options, select **Options**. For details, see page 160.
- To return to Preview mode, select **Preview**.

Using the camera options

In Preview mode, you can access various options for the camera by selecting **Options**.

The following options are available:

Effects: allows you to change the colour tone or apply a special effect to the photo.

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

Multi shot: allows you to take a series of action stills. Select the capture speed to **High speed** or **Normal speed** and the number of photos for the camera to take. When you select **Take** in Preview mode, the camera takes photos successively.

After taking photos, select **Save all** to save all of them. To save the selected one(s), scroll to the photo you want and select **Select** to place a check mark. Repeat to select more photos and then select **Save**.

Rotation: allows you to rotate the photo. You can flip the photo vertically, see its mirror image, or do both at the same time.







Self timer: allows you to set a time delay before the camera takes the photo. Select the length of delay you want. When you select **Take** in Preview mode, the camera takes the photo after the specified time.

Photo size: allows you to select the image size. The selected image size displays on the preview screen.

Photo quality: allows you to select the image quality. The selected quality displays on the preview screen.

Using the keypad in Preview mode

You can use the keypad to customise your camera settings when you are in Preview mode.

Key	Function
 / 	Zooms in or out. Note: When you set the photo size to the highest setting, 640x480 , you are not able to zoom in or out the image.
 / 	Adjusts the image brightness.
	Flips the image vertically.
	Shows the mirror image.
1	Switches to Record mode
2	Changes the image size.
3	Changes the image quality.
4	Changes the camera shot mode.
5	Changes the colour tone or applies a special effect to the photo.
6	Changes the display size.
7	Selects the decorated frame.
8	Sets the self timer.
9	Switches to the My photos menu (Menu 8.2).

My photos *(Menu 8.2)*

This menu allows you to review your photos.

When you access this menu, your phone displays the photos in Thumbnail mode, which shows them as small images.

To view the photos on the full screen, select **View**. To go back to Thumbnail mode, select **Multi**.

Select **Options** to access the following photo options:

Send: allows you to send the photo as a part of a multimedia message. For further details, see page 109.

Set as wallpaper: allows you to set the photo as your wallpaper on the idle screen.

Set as caller ID: allows you to set the photo as a caller ID image for a Phone book entry.

Protection: allows you to protect the photo from being deleted.

Delete: allows you to delete the photo.

Delete all: allows you to delete all of the photos saved in your phone.

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

Edit: allows you to change the color tone of the photo or apply a special effect on the photo.

Properties: shows the properties of the photo, such as the file name, the time and date it was taken, photo size, photo quality, protection status, and file size.

Video *(Menu 8.3)*

You can record and play videos using your phone as a camcorder.

Record *(Menu 8.3.1)*

In this menu, you can record a new video.

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

You can use the keypad to change the image settings or change the camera mode:

Key	Function
—/—	Zooms in or out.
/	Adjusts the image brightness.
▲	Flips the image vertically.
▼	Shows the mirror image.
1	Switches to Capture mode.
6	Changes the display size. You can also select Small or Large on the display.
9	Switches to the Video clips menu (Menu 8.3.2).

2. Select **Record** to start recording.
3. When you are finished, select **Stop** to stop recording.

The phone will automatically stop if the recording time expires.


4. If necessary, clear the default name using the **C** key.
5. Enter a name for the video and select **OK**.

The phone saves the video clip and then returns to Preview mode.

Video clips *(Menu 8.3.2)*

When you access this menu, the thumbnail images of your videos display.

To play a video:

1. Select the video you want to review.
2. Select **Play** to start playing the video.
3. To pause the playing, select **Pause**. To resume, select **Play**.
4. To stop playing, press the **C** key or the  key.

Select **Options** on the video list to access the following video options:

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

Delete: allows you to delete the current video clip.

Delete all: allows you to delete all of your video clip.

Protection: allows you to protect the video clip from being deleted.

Properties: shows the properties of the video clip, such as the file name, the time and date it was recorded, video size, protection status, and file size.

Memory status *(Menu 8.4)*

You can check the percentage of the memory being used and the remaining memory for photos and videos in the camera. You can also view the number of items you have stored and the total number of items you can store.

Phone settings


Many different features of your phone can be customised to suit your preferences. All of these features are accessed in the **Phone settings** menu.

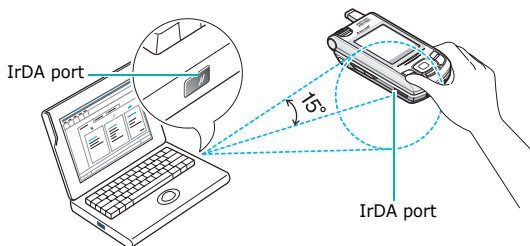
Activate infrared *(Menu 9.1)*

This feature allows you to send or receive data to or from IrDA-compatible computers or phones through the infrared port.

With PC *(Menu 9.1.1)*

To use an infrared connection with a computer, you must:

- configure and activate an IrDA-compliant infrared port on your PC.
- activate the infrared feature on the phone; the IrDA icon () appears on the top line of the display.
- align the IrDA port on the phone with the IrDA port on your computer or another phone.



The connection is ready for data transmission.

If there is no communication between your phone and the IrDA-compliant device within 30 seconds of activating the feature, it is automatically deactivated.

Note: For optimal performance, use the PC link cable supplied with your phone.

With other phone *(Menu 9.1.2)*

Using the infrared connection, you can send or receive Phone book entries and calendar memos from another compliant phone.

Note: If you receive a call while sending or receiving data, you can either answer or reject the call without interrupting the IrDA connection. But, picking up your phone may break the connection between the phones, so use the supplied headset to answer the call.

Receiving data from another phone

1. Align the IrDA ports on both phones with each other.
2. Activate the infrared feature on the phones. For this phone, access the **Activate infrared** menu and select **With other phone**.

The connection between the phones is established and your phone receives data from the other phone. You can receive up to 20 items in succession.

3. When the list of the received data displays, you have two options:

To save an individual item:

- ① Select one item on the list. The display shows the Phone book entry or calendar memo.
- ② Press the **i** key.
- ③ Select **Options**.

The following options are available:

- **Save**: allows you to save the selected data in your phone's memory.
- **Discard**: deletes the data.

- ④ Select **Save**.

To save all of the data:

- ① Select **Options**.

The following options are available:

- **Save all**: allows you to save all data.
- **Save all vCard**: saves all the Phone book entries from the received data.
- **Save all vCalendar**: saves all the calendar memos from the received data.
- **Discard all**: deletes all of the data.
- **Discard all vCard**: deletes all the Phone book entries from the received data.
- **Discard all vCalendar**: deletes all the calendar memos from the received data.
- **Exit**: exits the IrDA function. When the phone asks if you want to delete the remaining data, select **Yes** or **No**.

- ② Select a save option.

4. When FDN (Fixed Dial Number) mode is enabled on your phone, enter the PIN2 and select **OK**.

For further details about the FDN mode, see page 174.

5. Select **Save**.

The entries are saved.

Sending your Phone book

1. Align the IrDA ports on both phones with each other to establish the IrDA connection.

The IrDA port of the other phone must be activated.

2. Access a Phone book entry and select **Options**.
See page 39.

3. Select **Send via IrDA**.

4. Select **Selected data** or **All data**.

Your phone begins sending the data.

Sending a calendar memo

1. Align the IrDA ports on both phones with each other to establish the IrDA connection.

The IrDA port of the other phone must be activated.

2. Access the **Calendar** menu and select the memo you want to send. See page 146.

3. Select **Options** and select **Send via IrDA**.

Your phone begins sending the memo.

Display settings *(Menu 9.2)*

In this menu, you can change various settings for the display and the lights.

Wallpaper *(Menu 9.2.1)*

This menu allows you to change the background image or change the settings for the display in Idle mode.

The following options are available:

Wallpaper list: you can select a background image to be displayed on the idle screen. You have various preset images available. You can also select a blank background or any images downloaded from the Internet and the optional EasyGPRS programme, or received in messages.

To change the background image:

1. Select an image from the list.
2. When the image displays, you can scroll to other images by pressing the Up or Down key.
3. When the image you want displays, choose **Select** to display it on the idle screen.

You can also scroll through the list using the Up or Down key.

Text display: you can specify whether or not the phone displays the current time and date.

Text color: you can select the colour of the text to be displayed on the idle screen. This option is available only when the **Text display** option is enabled.

Brightness *(Menu 9.2.2)*

You can adjust the display brightness to see it better in different lighting conditions.

Press the Up or Down key or press the Volume keys to adjust the brightness.

Back light *(Menu 9.2.3)*

You can select the length of time the backlight is on. The backlight turns on when you press a key, open the phone, or receive a call or message, and remains on for the specified length of time.

Service light *(Menu 9.2.4)*

The keys on the top of the phone light to act as a service light flashing at regular intervals to indicate when service is available on the phone.

In this menu, you can select whether or not the service light is used. It also allows you to select a color in which the service light flashes.

Select one of the 7 color settings. When the phone is ready for use, the service light flashes in the appropriate color.

If you don't want to use the service light, select **Off**.

Graphic logo *(Menu 9.2.5)*

This menu allows you to display your service provider's logo instead of its name.

Off: the service provider's name displays in Idle mode.

On: the service provider's logo stored in your phone displays in Idle mode; if no logo has been stored, the service provider's name displays.

Greeting message *(Menu 9.3)*

You can set a greeting to be displayed briefly when the phone is switched on.

For further details about how to enter characters, see page 48.

Own number *(Menu 9.4)*

This function is a memory aid, which you can use to check your own phone numbers if you need to do so.

You can:

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

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

Language *(Menu 9.5)*

You can select a display language. Select either **English**, **Chinese S** (Simplified Chinese), or **Chinese T** (Traditional Chinese).

Note: Depending on your language selection, available input modes may change. For details, see page 49.

Security *(Menu 9.6)*

The Security feature enables you to restrict the use of your phone by others and to restrict the types of calls.

Various codes and passwords are used to protect features of your phone. They are described in the following sections. Also see pages 180 through 183.

PIN check *(Menu 9.6.1)*

When the PIN Check feature is enabled, you must enter your PIN each time you switch on the phone. Consequently, any person who does not have your PIN cannot use your phone without your approval.

Note: Before disabling the PIN Check feature, you must enter your PIN.

The following options are available:

Disable: the phone connects directly to the network when you switch it on.

Enable: you must enter the PIN each time the phone is switched on.

Change PIN *(Menu 9.6.2)*

This feature allows you to change your current PIN to a new one, provided that the PIN Check feature is enabled. You must enter the current PIN before you can specify a new one.

Once you have entered a new PIN, you are asked to confirm it by entering it again.

Phone lock *(Menu 9.6.3)*

When the Phone Lock feature is enabled, the phone is locked and you must enter a 4- to 8-digit phone password each time the phone is switched on.

The password is preset to "00000000" at the factory. To change the phone password, see the **Change password** menu (**Menu 9.6.4**).

Once the correct password has been entered, you can use the phone until you switch it off.

The following options are available:

Disable: you are not asked to enter the phone password when you switch on the phone.

Enable: you are required to enter the phone password when you switch on the phone.

Change password *(Menu 9.6.4)*

The Change Password feature allows you to change your current phone password to a new one. You must enter the current password before you can specify a new one.

The password is preset to "00000000" at the factory. Once you have entered a new password, you are asked to confirm it by entering it again.

Privacy *(Menu 9.6.5)*

Using this menu, you can lock your media contents, such as multimedia messages, photos, videos, voice memos, images, sounds, and memos in Paintbrush. Once you have locked the contents, you must enter the phone password to access the associated menus.

1. Select the item you want to lock in order to place a check mark. Repeat this step to select more items.

You can remove the check mark by selecting it again.

2. Select **OK**.
3. When the phone asks for the phone password, enter the password and select **OK**.

Note: The password is preset to "00000000" at the factory. To change this password, see page 173.

SIM lock *(Menu 9.6.6)*

When the SIM Lock feature is enabled, your phone only works with the current SIM. You must enter the SIM lock code to use a different SIM card.

Once you have entered the lock code, you are asked to confirm it by entering it again.

To unlock the SIM, you must enter the SIM lock code.

FDN mode *(Menu 9.6.7)*

The FDN (Fixed Dial Number) mode, if supported by your SIM card, allows you to restrict your outgoing calls to a limited set of phone numbers.

The following options are available:

Disable: you can call any number.

Enable: you can only call phone numbers stored in Phone book. You must enter your PIN2.

Note: Not all SIM cards have a PIN2. If your SIM card does not, this menu does not display.

Change PIN2 *(Menu 9.6.8)*

The Change PIN2 feature allows you to change your current PIN2 to a new one. You must enter the current PIN2 before you can specify a new one.

Once you have entered a new PIN2, you are asked to confirm it by entering it again.

Note: Not all SIM cards have a PIN2. If your SIM card does not, this menu does not display.

Extra settings *(Menu 9.7)*

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

Select the option you want to activate. A check mark displays in front of the option. To deactivate the option, just select it again.



The following options are available:


Auto redial: when this option is checked, the phone makes up to 10 attempts to redial a phone number after an unsuccessful call.

Note: The interval between attempts varies.

Active slide: when this option is checked, you can simply open the phone to answer a call.

When it is unchecked, you must open the phone and press a key to answer a call, depending on the setting of the **Anykey answer** option.

Anykey answer: when this option is checked, you can answer an incoming call by pressing any key, except the  key or the **Reject** soft key. To reject the call, press the  key or the **Reject** soft key.

When this option is unchecked, you must press the  key or the **Accept** soft key to answer a call.

Touch calibration *(Menu 9.8)*

Sometimes your phone may not respond accurately to your screen taps. In this case, the calibration for the touch screen needs to be realigned.

When you access this menu, the calibrating process begins. Tap the cross-hair object as it appears at each location, until the calibration is complete.

Note: Be precise when you tap the cross- hair object.

To reset the calibration to its default, select **Reset**.

Reset settings *(Menu 9.9)*

You can easily reset your phone to its default settings.

To reset your phone, enter the 4- to 8-digit phone password and select **OK**.

Note: The password is preset to "00000000." To change this password, see page 173.

Solving problems

If you are experiencing problems with your phone, perform the following simple checks before contacting a service professional. This may save you the time and expense of an unnecessary service call.

When you switch your phone on, the following messages may appear:

Insert SIM card

- Check that the SIM card is correctly installed.

Enter password

- The automatic locking function has been enabled. You must enter the phone's password before you can use the phone.

Enter PIN

- You are using your phone for the first time. You must enter the Personal Identification Number (PIN) supplied with the SIM card.
- The PIN Check feature is enabled. Every time the phone is switched on, the PIN has to be entered. To disable this feature, use the **PIN check** menu (**Menu 9.6.1**). See page 171.


Enter PUK

- The PIN code was entered incorrectly three times in succession and the phone is now blocked. Enter the PUK supplied by your service provider.


“No service,” “Network failure” or “Not done” displays

- The network connection has been lost. You may be in a weak signal area (in a tunnel or surrounded by buildings). Move and try again.
- You are trying to access an option for which you have not taken out a subscription with your service provider. Contact the service provider for further details.

You have entered a number but it was not dialled

- Have you pressed the  key?
- Are you accessing the right cellular network?
- You may have set an outgoing call barring option.

Your correspondent cannot reach you

- Is your phone switched on (the  key pressed for more than one second)?
- Are you accessing the right cellular network?
- You may have set an incoming call barring option.

Your correspondent cannot hear you speaking

- Have you switched off the microphone?
- Are you holding the phone close enough to your mouth? The microphone is located at the bottom of the phone.

The phone starts beeping and “Warning** Low battery” flashes on the display**

- Your battery is insufficiently charged. Recharge the battery.

The audio quality of the call is poor

- Check the signal strength indicator on the display (📶); the number of bars indicates the signal strength from strong (📶) to weak (📶).
- Try moving the phone slightly or moving closer to a window if you are in a building.

No number is dialled when you recall a Phone book entry

- Check that the number has been stored correctly, by using the Search feature in Phone book.
- Re-store the number, if necessary.

If the above guidelines do not help you to solve the problem, take note of:

- the model and serial numbers of your phone
- your warranty details
- a clear description of the problem

Then contact your local dealer or Samsung after-sales service.

Access codes

There are several access codes that are used by your phone and its SIM card. These codes help you protect the phone against unauthorised use.

When requested for any of the codes explained below, enter the appropriate code, displayed as asterisks, and select **OK**. If you make a mistake, press the **C** key one or more times until the incorrect digit is cleared and then continue entering the correct code.

The access codes, except for the PUK and PUK2 codes, can be changed using the **Security** menu (**Menu 9.6**). See page 171 for further details.

Important! Avoid using access codes resembling emergency numbers, such as 112, so that you do not accidentally dial an emergency number.

Phone password

The Phone Lock feature uses the phone password to protect your phone against unauthorised use. The phone password is supplied with the phone and is preset to "00000000" at the factory.

To	See
activate/deactivate the Phone Lock feature	page 172 (Menu 9.6.3).
change the phone password	page 173 (Menu 9.6.4).

PIN

The **P**ersonal **I**dentification **N**umber or PIN (4- to 8-digits) protects your SIM card against unauthorised use. It is usually supplied with the SIM card.

If you enter an incorrect PIN three times in succession, the code is disabled and cannot be used until you re-enable it by entering the PUK (see below).

To	See
activate/deactivate the PIN Check feature	page 171 (Menu 9.6.1).
change the PIN	page 172 (Menu 9.6.2).

PUK

The 8-digit PUK (**P**IN **U**nblocking **K**ey) is required to change a disabled PIN. The PUK may be supplied with the SIM card. If not, or you have lost it, contact your service provider.

To re-enable your PIN:

1. Enter the PUK and select **OK**.
2. Enter a new PIN of your choice and select **OK**.
3. When the **Confirm new PIN** message displays, enter the same code again and select **OK**.

If you enter an incorrect PUK ten times in succession, the SIM card becomes invalid. Contact your service provider for a new card.

PIN2

The PIN2 (4- to 8-digits), supplied with some SIM cards, is required to access specific functions, such as setting the maximum cost of a call. These functions are available if supported by your SIM card.

If you enter an incorrect PIN2 three times in succession, the code is disabled and you cannot access the functions until you re-enable it by entering the PUK2.

To change the PIN2, see page 174.

PUK2

The 8-digit PUK2 (**PIN Unblocking Key 2**), supplied with some SIM cards, is required to change a disabled PIN2. If you lose the code, contact your service provider.

To re-enable your PIN2:

1. Enter the PUK2 and select **OK**.
2. Enter a new PIN2 of your choice and select **OK**.
3. When the **Confirm PIN2** message displays, enter the same code again and select **OK**.

If you enter an incorrect PUK2 ten times in succession, you will not be able to access the functions requiring the PIN2. Contact your service provider for a new card.

Barring password

A 4-digit barring password is required when you use the Call Barring function. You can obtain the password from your service provider when you subscribe to this function.

You can change this password in the **Call barring** menu (**Menu 3.2**). See page 90 for further details.

Health and safety information

Exposure to radio-frequency energy (SAR information)

This phone meets European Union (EU) requirements concerning exposure to radio waves.

Your mobile phone is a radio transmitter and receiver. It is designed and manufactured so as not to exceed the limits for exposure to radio-frequency (RF) energy, as recommended by the EU Council. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines were developed by independent scientific organisations through the periodic and thorough evaluation of scientific studies. The limits include a substantial safety margin designed to ensure the safety of all persons, regardless of age and health.

The exposure standard for mobile phones employs a unit of measurement known as SAR (Specific Absorption Rate). The SAR limit recommended by the EU Council is 2.0W/kg.*

* The SAR limit for mobile phones used by the public is 2.0 watts/kilogram (W/kg) averaged over ten grams of body tissue. The limit incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in measurements. The SAR values may vary depending on national reporting requirements and the network band.

SAR tests are conducted using standard operating positions 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 base station, the lower the power output of the phone.

Precautions when using batteries

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

Health and safety information

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

Road safety

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

When driving a car, driving is your first responsibility. When using your wireless phone behind the wheel of a car, make sure that you are following the special regulations in a given area or country.

Operating environment

Remember to follow any special regulations in force in any area and always switch off your phone whenever it is forbidden to use it, or when it may cause interference or danger.

When connecting the phone or any accessory to another device, read its user's guide for detailed safety instructions. Do not connect incompatible products.

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

Electronic devices

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

Pacemakers

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

Persons with pacemakers:

- Should always keep the phone more than 15 cm (6 inches) from their pacemaker when the phone is switched on
- Should not carry the phone in a breast pocket
- Should use the ear opposite the pacemaker to minimise potential interference

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

Hearing aids

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

Other medical devices

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

Vehicles

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles. Check with the manufacturer or its representative regarding your vehicle.

You should also consult the manufacturer of any equipment that has been added to your vehicle.

Posted facilities

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

Potentially explosive environments

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

Users are advised to switch off the phone while at a refuelling point (service station). Users are reminded of the need to observe restrictions on the use of radio equipment in fuel depots (fuel storage and distribution areas), chemical plants or where blasting operations are in progress.


Areas with a potentially explosive atmosphere are often but not always clearly marked. They include the areas below decks 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 (for example, 112 or any other official emergency number). Emergency numbers vary by location.
3. Press the  key.

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

When making an emergency call, remember to give all the necessary information as accurately as possible. Remember that your phone may be the only means of communication at the scene of an accident; do not end 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 an 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.
- Keep the phone dry. Precipitation, humidity, and liquids contain minerals that corrode electronic circuits.
- Do not use the phone with a wet hand. Doing so may cause an electric shock to you or damage to the phone.
- Do not use or store the phone in dusty, dirty areas, as its moving parts may be damaged.
- Do not store the phone in hot areas. High temperatures can shorten the life of electronic devices, damage batteries, and warp or melt certain plastics.
- Do not store the phone in cold areas. When the phone warms up to its normal operating temperature, moisture can form inside the phone, which may damage the phone's electronic circuit boards.
- Do not drop, knock or shake the phone. Rough handling can break internal circuit boards.
- Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the phone. Wipe it with a soft cloth slightly dampened in a mild soap-and-water solution.

Health and safety information

- Do not paint the phone. Paint can clog the device's moving parts and prevent proper operation.
- Do not put the phone in or on heating devices, such as a microwave oven, a stove, or a radiator. The phone may explode when overheated.
- Use only the supplied or an approved replacement antenna. Unauthorised antennas or modified accessories may damage the phone and violate regulations governing radio devices.
- If the phone, battery, charger, or any accessory is not working properly, take it to your nearest qualified service facility. The personnel there will assist you, and if necessary, arrange for service.



Glossary

To help you understand the main technical terms and abbreviations used in this booklet, and to take full advantage of the features of your mobile phone, here are a few definitions:

Active slider

Ability to answer a call simply by opening the phone.

Call barring

Ability to restrict outgoing and incoming calls.

Call diverting

Ability to reroute calls to another number.

Call holding

Ability to put one call on standby while answering or making another call; you can then switch between the two calls, as required.

Call waiting

Informs you that you have an incoming call when you are engaged on another call.

Caller line identification services (Caller ID)

Services allowing subscribers to view or block the telephone numbers of callers.

EMS (Enhanced Message Service)

An adaptation of the Short Message Service (SMS) that allows you to send and receive ring tones and the service provider's logo, as well as combinations of simple media to and from EMS-compliant handsets. Because EMS is based on SMS, it can use SMS centres the same way that SMS does. EMS works on all Global System for Mobile communications (GSM) networks. EMS senders can use text, melodies, pictures, sounds, and animations to enhance the expressive power of messages that are limited by the display constraints of mobile devices.

GPRS (General Packet Radio Service)

New non-voice value-added service that allows information to be sent and received across a mobile telephone network. GPRS provides continuous connection to the Internet for mobile phone and computer users. It is based on the Global System for Mobile Communication (GSM) circuit-switched cellular phone connections and the Short Message Service (SMS).

GSM (Global System for Mobile Communication)

International standard for cellular communication, guaranteeing compatibility between the various network operators. GSM covers most European countries and many other parts of the world.

Java

Programming language generating applications that can run on all hardware platforms, whether small, medium or large, without modification. It has been promoted for and geared heavily to the Web, both for public Web sites and Intranets. When a Java program runs from a Web page, it is called a *Java applet*. When it is run on a mobile phone or pager, it is called a MIDlet.

MMS (Multimedia Message Service)

A message service for the mobile environment, standardized by the WAP Forum and the 3rd Generation Partnership Program (3GPP). For phone users, MMS is similar to Short Message Service (SMS)-it provides automatic, immediate delivery of user-created content from phone to phone. The message addressing used is primarily phone numbers, thus the traffic goes from phone to phone. MMS also provides support for e-mail addressing, so that messages can be sent by e-mail. In addition to the text content of SMS, MMS messages can contain still images, voice, or audio clips, and also video clips and presentation information.

Multi-party calling

Ability to establish a conference call involving up to five additional parties.

Phone password

Security code used to unlock the phone when you have selected the option to lock it automatically each time it switches on.

PIN (Personal Identification Number)

Security code that protects the phone against unauthorised use. The PIN is supplied by the service provider with the SIM card. It may be a four to eight-digit number and can be changed, as required.

Proxy server

A proxy server resides between a Web client, such as a web browser, and a real Web server and acts as an intermediary between them. When some people browse a web site, their browser is not actually connecting to the web server. The request from their browser goes to a proxy server, and the proxy server makes the request to the web server.

A proxy server can improve performance for groups of users because it caches the results of all requests for a certain amount of time. If a user requests a web page that it already loaded for another user, it reloads the page instead of forwarding the request to the Web server, which can be a time-consuming operation.

PUK (PIN Unblocking Key)

Security code used to unlock the phone when an incorrect PIN has been entered three times in succession. The eight-digit number is supplied by the service provider with the SIM card.

Roaming

Use of your phone when you are outside your home area (when travelling for example).

SDN (Service Dialling Numbers)

Telephone numbers supplied by your network provider and giving access to special services, such as voice mail, directory inquiries, customer support and emergency services.



SIM (Subscriber Identification Module)

Card containing a chip with all the information required to operate the phone (network and memory information, as well as the subscriber's personal data). The SIM card fits into a small slot on the back of the phone and is protected by the battery.

SMS (Short Message Service)

Network service sending and receiving messages to and from another subscriber without having to speak to the correspondent. The message created or received can be displayed, received, edited or sent.

Soft keys

Two keys  and  on the phone, the purpose of which:



- varies according to the function that you are currently using.
- is indicated on the bottom line of the display just above the corresponding key.

Voice mail








Computerised answering service that automatically answers your calls when you are not available, plays a greeting (optionally in your own voice) and records a message.







SGH-D428 GPRS Telephone

Quick reference card

Search for a number in Phone book	<ol style="list-style-type: none"> ① Tap , or select Name in Idle mode and select Search. ② Enter the first few letters of the name. ③ Select OK. ④ Select the name from the list. ⑤ Press the  key to dial.
Choose the alert type	<ol style="list-style-type: none"> ① Select the Alert type menu (Menu 4.3). ② Select an option: <ul style="list-style-type: none"> • Light only • Melody • Vibration • Vibra+Melody
Take a photo	<ol style="list-style-type: none"> ① Press and hold the Down key. ② Select Take. ③ Select Save. ④ Enter a name. ⑤ Select OK.



Switch on/off	Press and hold the  key.
Make a call	<ol style="list-style-type: none"> ① Enter the number. ② Press the  key.
End a call	Briefly press the  key or close the phone.
View missed calls shortly after missing them	<ol style="list-style-type: none"> ① Open the phone and select View. ② Scroll through the missed calls. ③ To return the call, press the  Key.
Answer a call	Open the phone or press the  key.
Adjust the volume	Press the  or  key on the left side of the phone.

Select an item on the display	<p>Choose one of the following options:</p> <ul style="list-style-type: none"> • Tap the item on the touch screen. • Scroll to the item using the Navigation keys and press the Select or OK soft key. • If the item is numbered, press the corresponding number key.
Access the menu functions	<ol style="list-style-type: none"> ① Select Menu. ② Scroll through the list of the menus until you reach the menu you want. ③ Select the menu. ④ Scroll through the list of the options until the one you want is selected. ⑤ Select the option.
Each of the two soft keys perform the function indicated by the text above it, on the bottom line of the display.	
Use the tool icons below the display	<ul style="list-style-type: none"> •  : Tap to return to Idle mode. •  : Tap to enter the Phone book menu. •  : Tap to open the Dictionary. •  : Tap to enter the Paintbrush menu. •  : Tap to enter the Text messages menu.
Store number in Phone book	<ol style="list-style-type: none"> ① Enter the number and select Save. ② Select an icon. ③ Select a memory. ④ Enter a name. ⑤ Select OK. ⑥ If necessary, change the location number. ⑦ Select OK. ⑧ Press the  key to return to Idle mode.