

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

SAMSUNG ELECTRONICS



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User's Guide



Important safety precautions



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

Drive safely at all times

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

Switch off the phone when refuelling

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

Switch off in an aircraft

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

Switch off the phone near all medical equipment

Hospitals or health care facilities may be using equipment that could be sensitive to external radio frequency energy. Follow any regulations or rules in force.



Interference

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

Be aware of special regulations

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

Water resistance

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

Sensible use

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

Emergency calls

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

Keep your phone away from small children

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

Accessories and batteries

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



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

Qualified service

Only qualified service personnel may repair your phone.

For more detailed safety information, see "Health and safety information" on page 86.

About this Guide

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

In this guide, the following instruction icons appear:

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



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

Special features of your phone



- **Bluetooth**
Send photos, images, videos, and other personal data, and connect to other devices using free, wireless Bluetooth technology.



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



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



- **Get personal with photo or video caller ID**
See who's calling you when their very own photo or video displays.



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

- **Multimedia Message Service (MMS)**
Send and receive MMS messages with a combination of text, image, video, and audio.

- **E-mail**

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



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



- **Calendar**
Keep track of your daily, weekly, and monthly schedule.



- **Voice recorder**
Record memos or sounds.

Contents

Unpack 6

Make sure you have each item

Your phone 6

Buttons, features, and locations

Get started 7

First steps to operate your phone

Install and charge the phone	7
Power on or off	8
Keys and display	9
Access menu functions	11
Customise your phone	12
Make/Answer calls	14

Step outside the phone 15

Begin with your camera, messaging, and other special features

Use camera	15
Browse the web	16

Use Phonebook	16
Send messages	17
View messages	19
Use Bluetooth	19

Enter text 21

AB, T9, Number, and Symbol modes

Call functions 23

Advanced calling features

Menu functions 28

All menu options listed

Solve problems 84

Help and personal needs

Health and safety information 86

Index 93

Overview of menu functions

To access Menu mode, press [Centre] in Idle mode.

1 Call records	▶ p.28	3 Applications	▶ p.35	5 i-mode	▶ p.46	8 Camera	▶ p.65
1 Current contacts	▶ p.28	1 Java world	▶ p.35	1  Menu	▶ p.46	9 Settings	▶ p.71
2 Missed calls	▶ p.29	2 Voice recorder	▶ p.35	2 Mail	▶ p.48	1 Time & Date	▶ p.71
3 Dialed calls	▶ p.29	3 World time	▶ p.36	3 Java application	▶ p.54	2 Phone settings	▶ p.72
4 Received calls	▶ p.29	4 Alarm	▶ p.37	4 SMS	▶ p.55	3 Display settings	▶ p.73
5 Delete all	▶ p.29	5 PIM sync	▶ p.37	5 Bookmarks	▶ p.55	4 Sound settings	▶ p.74
6 Call time	▶ p.29	6 Calculator	▶ p.38	6 Go to webpage	▶ p.55	5 Network services	▶ p.75
7 Call cost*	▶ p.30	7 Converter	▶ p.39	7 Saved pages	▶ p.56	6 Bluetooth	▶ p.78
2 Phonebook	▶ p.30	8 Timer	▶ p.39	8 Settings	▶ p.56	7 Security	▶ p.81
1 Contacts list	▶ p.30	9 Stopwatch	▶ p.39	6 File manager	▶ p.57	8 i-mode settings	▶ p.82
2 Add new contact	▶ p.31	0 SIM-AT*	▶ p.40	Images	▶ p.57	9 Reset settings	▶ p.83
3 Group	▶ p.32	4 Messages	▶ p.40	Videos	▶ p.57		
4 Speed dial	▶ p.33	1 Create message	▶ p.40	Music	▶ p.58		
5 My name card	▶ p.33	2 My messages	▶ p.41	Sounds	▶ p.59		
6 Own number	▶ p.34	3 Templates	▶ p.44	Other files	▶ p.60		
7 Management	▶ p.34	4 Delete all	▶ p.45	Memory status	▶ p.60		
8 Service number*	▶ p.34	5 Settings	▶ p.45	7 Calendar	▶ p.61		
		6 Memory status	▶ p.46				

* Shows only if supported by your SIM card.

Unpack

Make sure you have each item



Phone



Travel Charger



Battery



User's Guide

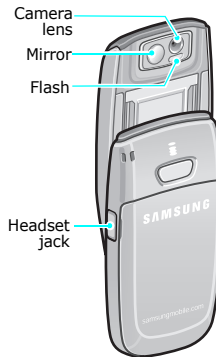
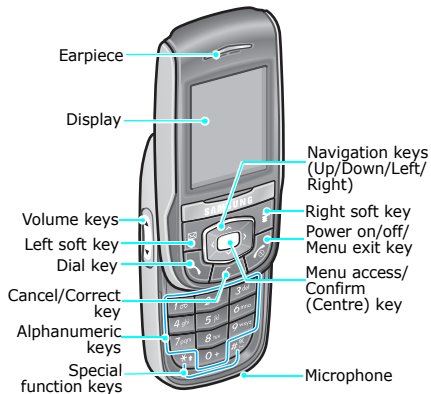
You can obtain various accessories from your local Samsung dealer.



The items supplied with your phone and the accessories available at your Samsung dealer may vary, depending on your country or service provider.

Your phone

Buttons, features, and locations



Get started

First steps to operate your phone

SIM card information

When you subscribe to a cellular network, you receive a plug-in SIM (Subscriber Identity Module) card loaded with your subscription details, such as your PIN, and available optional services.

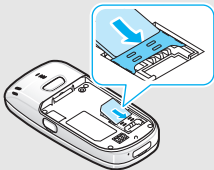
Install and charge the phone

1 Remove the battery.



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

2 Insert the SIM card.

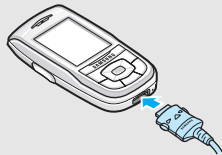


✓ Make sure that the gold-coloured contacts on the card face down into the phone.

3 Install the battery.



4 Plug the travel charger into the phone.

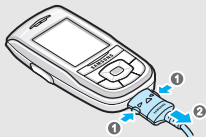


5 Plug the charger into a standard AC wall outlet. The LED on the charger indicates the charging progress:

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

6 When the phone is completely charged (green charger LED), unplug the charger from the power outlet.

7 Remove the charger from the phone.



Low battery indicator

When the battery is low:

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

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

Power on or off

Switch on

Do not turn on the phone when mobile phone use is prohibited.

1. Open the phone.
2. Press and hold [] to turn on the phone.
3. If necessary, enter the PIN and press <**OK**>.

Switch off

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

Keys and display

Keys



Perform the function indicated on the bottom line of the display.



In Idle mode, access your favourite menus directly. ► p. 72

In Menu mode, scroll through menu options.



In Idle mode, enter Menu mode. Also, launch the i-mode browser when held down. In Menu mode, select the highlighted menu option.



Delete characters from the display. In Menu mode, return to the previous menu level.



Send or answer a call. In Idle mode, retrieve the recent numbers dialled, missed, or received.



End a call. Hold down to switch the phone on and off. In Menu mode, cancel input and return the phone to Idle mode.



Enter numbers, letters, and some special characters. In Idle mode, press and hold [1] to access your voicemail server. Press and hold [0] to enter an international call prefix.



Enter special characters. In Idle mode, press and hold [#] to activate or deactivate Quiet mode. Press and hold [*] to enter a pause between numbers.



(on the left)

Adjust the phone volume. In Idle mode, with the phone open, adjust the keypad tone volume. With the phone closed, press and hold to turn on the external display.

Display

Layout



Icons

display various icons.

Text and graphics

display messages, instructions, and information you enter.

Soft key function indicators

show the current functions assigned to the two soft keys.

Icons*

-  Received signal strength
-  Call in progress
-  Out of your service area; you cannot send or receive calls
-  New SMS message
-  New voicemail
-  Call diverting feature active

Icons

(continued)

-  Bluetooth feature active
-  Connected to hands-free car kit or headset
-  Synchronised with a PC
-  GPRS network
-  Roaming network
-  Home Zone, if you have registered for the appropriate service
-  Call ringer set to vibrate
-  Mute mode, during a call
-  Quiet mode (Mute)
-  Quiet mode (Vibration)
-  Alarm set

Icons

(continued)



New i-mail or i-MMS message:

- Grey: a new mail or message in your phone; when a mail or message is being downloaded, the icon blinks
- Yellow: a new mail or message on the i-mode centre
- Red: Inbox is full



i-mode active:

- Yellow: in a GPRS network
- Grey: in a GSM network



Connecting to i-mode



i-mode locked



Battery power level

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

Access menu functions

Use the soft keys

The roles of the soft keys vary depending on the function you are using. The bottom line of the display indicates their current role.



Press the left soft key to access the **Mail** menu.

Press the right soft key to access the **i-mode** menu.

Select an option

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

Use shortcuts

Press the number key corresponding to the option you want.

Customise your phone

Display language

1. In Idle mode, press [Centre] and select **Settings** → **Phone settings** → **Language**.
2. Select a language.

Call ringer melody

1. In Idle mode, press [Centre] and select **Settings** → **Sound settings** → **Incoming call** → **Ringtone**.
2. Select a ringer category.
3. Select a ringer melody.
4. Press <**Save**>.

Idle mode wallpaper

You can set wallpaper for the display.

1. In Idle mode, press [Centre] and select **Settings** → **Display settings** → **Wallpaper** → **Main display**.
2. Select an image category.
3. Select an image and press <**Select**>.
4. Press <**Save**>.

Menu mode skin colour

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

1. In Idle mode, press [Centre] and select **Settings** → **Display settings** → **Skin**.
2. Select a colour pattern.

Quiet mode

You can switch the phone to Quiet mode to avoid disturbing other people with your phone sound. Press and hold [#] in Idle mode.

Menu shortcuts

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

1. In Idle mode, press [Centre] and select **Settings** → **Phone settings** → **Short cut**.
2. Scroll to a key.
3. Press <**Options**> and select **Change**.
4. Select a menu to be assigned to the key.

Phone lock

You can protect the phone against unauthorised use with a phone password. The phone will require the password on power-up.

1. In Idle mode, press [Centre] and select **Settings** → **Security** → **Change password**.
2. Enter the default password, **00000000**, and press <OK>.
3. Enter a new 4- to 8-digit password and press <OK>.
4. Enter the new password again and press <OK>.
5. Select **Phone lock**.
6. Select **Enable**.
7. Enter the password and press <OK>.

Make/Answer calls

Make a call

1. In Idle mode, enter an area code and phone number.
2. Press [↵].
3. To end the call, press [⏏].

Answer a call

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

Adjust the volume during a call

Press [▲/▼].

Step outside the phone

Begin with your camera, messaging, and other special features

Use camera

Take a photo

1. In Idle mode, press [Centre] and select **Camera**.
2. Adjust the image to be captured.
3. Press [Centre] to take a photo. The photo is saved automatically.
4. Press <**Preview**> to take another photo.

View a photo

1. In Capture mode, press <> and select **Go to photos**.
2. Press [Left] or [Right] to select a photo category.
3. Select the photo you want.

Record a video

1. In Idle mode, press [Centre] and select **Camera**.
2. Press [1] to switch to Record mode.
3. Press [Centre] to start recording.
4. Press [Centre] to stop recording. The video is saved automatically.
5. Press <**Preview**> to record another video.

Play a video

1. In Record mode, press <> and select **Go to videos**.
2. Press [Left] or [Right] to select a video category.
3. Select the video you want.

Browse the web

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

Launch the browser

In Idle mode, press and hold [Centre].

Navigate the i-mode browser

- To scroll through browser items, press [Up] or [Down].
- To select an item, press [Centre].
- To return to the previous page, press [Left] or [C].
- To access browser options, press <Menu>.

Use Phonebook

Add an entry

To the phone's memory

1. In Idle mode, enter a phone number and press <Options>.
2. Select **Save contact** → **Phone** → a number type.
3. Specify contact information: First name, Last name, Mobile, Home, Office, Fax, Other, Email, Caller ID, Ringtone, Group, and Memo.
4. Press <Save> to save the entry.

To the SIM card

1. In Idle mode, enter a phone number and press <Options>.
2. Select **Save contact** → **SIM**.
3. Enter a name.
4. Press <Save> to save the entry.

Find an entry

1. In Idle mode, press [Centre] and select **Phonebook** → **Contacts list**.
2. Select an entry.
3. Scroll to a number and press [↵] to dial, or press [Centre] to edit contact information.

Create and send a name card

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

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

1. In Idle mode, press [Centre] and select **Messages** → **Create message**.
2. Enter the message text.
3. Press <**Options**> and select **Save and send** or **Send only**.
4. Enter destination numbers.
5. Press [Centre] to send the message.

Send a multimedia message (i-MMS)

1. In Idle mode, press **<Mail>** and select **Create MMS**.
2. Select **Send** and then **Yes**.
3. Select the **To1** field.
4. Enter a destination number or an e-mail address and press [Centre].
5. Select the **Subject** field.
6. Enter the message subject and press [Centre].
7. Select the **SMIL** field and add media items.
8. When you finish, press **<Send>**.
9. Select **Send** to send the message.

Send an e-mail (i-mail)

1. In Idle mode, press **<Mail>** and select **Create mail**.
2. Select the **To1** field.
3. Enter an e-mail address and press [Centre].
4. Select the **Subject** field.
5. Enter the e-mail subject and press [Centre].
6. Select the **Message** field.
7. Enter the e-mail text and press [Centre].
8. Select the **Attachment** field.
9. Add images, sounds, or videos.
10. Select **Send** to send the e-mail.

View messages

View a text message

When a notification appears:

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

From the Inbox:

1. In Idle mode, press [Centre] and select **Messages** → **My messages** → **Inbox**.
2. Select a message.

View an i-mail or i-MMS message

1. In Idle mode, press <**Mail**>
2. Select a message.

Use Bluetooth

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

Turn on Bluetooth

In Idle mode, press [Centre] and select **Settings** → **Bluetooth** → **Activation** → **On**.

Search for and pair with a Bluetooth device

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

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

Send data

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

Receive data

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

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

Enter text

AB, T9, Number, and Symbol modes

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

Changing the text input mode

The text input mode indicator appears when the cursor is in a text field.

- Press and hold [*****] to switch between T9 and AB modes. Depending on your country, you may also be able to access an input mode for your specific language.
- Press [*****] to change case or switch to Number mode.
- Press and hold [**#**] to switch to Symbol mode.

Using AB mode

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

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

(Creating an SMS message with GSM-alphabet encoding)

Tips for using AB mode

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

Using T9 mode

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

Entering a word in T9 mode

1. Press [2] to [9] to start entering a word. Press each key once for each letter.
For example, press [4], [3], [5], [5], and [6] to enter *Hello* in T9 mode.
T9 predicts the word that you are typing, and it may change with each key that you press.

2. Enter the whole word before editing or deleting characters.
3. When the word displays correctly, go to step 4. Otherwise, press [0] to display alternative word choices for the keys that you have pressed.
For example, *Of* and *Me* use [6] and [3].
4. Press [#] to insert a space and enter the next word.

Tips for using T9 mode

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

Adding a new word to the T9 dictionary

This feature may not be available for some languages.

1. Enter the word that you want to add.
2. Press [0] to display alternative words for your key presses. When there are no more alternative words, **Add** appears on the bottom line.

3. Press **<Add>**.
4. Enter the word you want using AB mode and press **<OK>**.

Using Number mode

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

Using Symbol mode

Symbol mode enables you to insert symbols.
Press and hold [**#**] to enter Symbol mode.

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

Call functions

Advanced calling features

Making a call

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

- ☒ • Press [**C**] to clear the last digit or press and hold [**C**] to clear the whole display. You can move the cursor to edit an incorrect digit.
- Press and hold [*****] to enter a pause between numbers.

Making an international call

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

Redialling recent numbers

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

Making a call from Phonebook

Once you have stored a number in Phonebook, you can dial the number by selecting it from Phonebook. ► p. 30

You can also use the speed dial feature to assign your most frequently called numbers to specific number keys. ► p. 33

Dialling a number from the SIM card

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

Ending a call

Close the phone or press [⏏].

Answering a call

When you receive an incoming call, the phone rings and displays the incoming call image.

Press <**Accept**> or [↶] to answer the call.

Tips for answering a call

- When **Anykey answer** in the **Extra settings** menu is active, you can press any key, except for <**Reject**> and [⏏]. ► p. 73
- Press <**Reject**> or [⏏] to reject a call.
- Press and hold [▲/▼] to reject a call or mute the ringer, depending on the **Volume key** setting. ► p. 72

Viewing missed calls

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

1. Press <**View**>.
2. If necessary, scroll through the missed calls.
3. Press [↶] to dial the number you want.

Using the headset

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

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

The button on the headset works as listed below:

To	Press
redial the last call	and hold the button twice.
answer a call	the button.
end a call	the button.

Options during a call

You can access a number of functions during a call.

Adjusting the volume during a call

Use [▲/▼] to adjust the earpiece volume during a call.

Press [▲] to increase the volume level and [▼] to decrease the volume level.

Placing a call on hold/Retrieving

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

Making a second call

You can make another call if your network supports it.

1. Press <**Hold**> to put the call on hold.
2. Make the second call in the normal way.
3. Press <**Swap**> to switch between the calls.
4. Press <**Options**> and select **End held call** to end the call on hold.
5. To end the current call, press [⏏].

Answering a second call

You can answer an incoming call while already on the phone, if your network supports it and you have activated the call waiting feature. ► p. 77

1. Press [↶] to answer the call. The first call is automatically put on hold.
2. Press <**Swap**> to switch between the calls.

3. Press <**Options**> and select **End held call** to end the call on hold.
4. To end the current call, press [].

Transferring a call

You can transfer the currently active call to a caller on hold, if your network supports it. With this option, the two callers can talk to each other, but you are disconnected from the call.

Press <**Options**> and select **Transfer**.

Using an external speaker

Use an optional external speaker to talk and listen with the phone a short distance away. First, you must plug a speaker into the phone.

Using a Bluetooth headset

Use an optional Bluetooth headset to talk on the phone without holding the phone to your ear. To use this feature, you first need to register your headset and connect it to the phone. ► p. 78

Press <**Options**> and select **Switch to headset** or **Switch to phone**.

Using the menu options

You can access Menu mode and use menu functions.



During a call, some menu functions are not available.

Press <**Options**> and select **Menu**.

Switching off the microphone (Mute mode)

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

Press <**Options**> and select **Mute** or **Unmute**.

Sending a sequence of DTMF tones

Dual tone multi-frequency (DTMF) tones are the tones used in phones for tone dialling.

You can send DTMF tones as a group after entering the entire number you need to send or retrieving a number from Phonebook. This feature is helpful for entering a password or an account number when you call an automated system, like a banking service.

1. When connected with a teleservice system, press **<Options>** and select **Send DTMF**.
2. Enter the number you need to send and press **<OK>**.

Muting or sending key tones

You can turn the key tones off or on.

Press **<Options>** and select **Mute keys** or **Send keys**.

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

Using Phonebook

You can access the **Phonebook** menu to locate or store entries. ► p. 30

Press **<Options>** and select **Phonebook**.

Using SIM services

The **SIM service** menu is available if you use a SIM card in your phone. A SIM card provides services such as news, weather, sports, entertainment, and location services.

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

Making a multi-party call

Use this feature to allow as many as six people to join a multi-party call, or conference call.

Your service provider must support multi-party calls for you to use this feature.

Setting up a multi-party call

1. Call the first participant.
2. Call the second participant. The first call is automatically put on hold.
3. Press **<Options>** and select **Join**. The first participant is added to the multi-party call.

4. If desired, call another person or answer an incoming call.
5. Press <**Options**> and select **Join**.
6. Repeat steps 4 and 5 as desired.

Having a private conversation with one participant

1. Press <**Options**> and select **Private**.
2. Select a name or number from the participant list.
You can talk privately with that person, while the other participants converse with each other.
3. To return to the multi-party call, press <**Options**> and select **Join**.

Disconnecting one participant

1. Press <**Options**> and select **Remove**.
2. Select a name or number from the participant list.
The participant is dropped from the call, but the call continues with the other parties.
3. Close the phone or press [⏏] to end the multi-party call.

Menu functions

All menu options listed

Call records (Menu 1)

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

To access this menu, press [Centre] in Idle mode and select **Call records**.

Current contacts (Menu 1.1)

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

Accessing a call record

1. Press [Left] or [Right] to select a call type.
2. Press [Up] or [Down] to scroll through the call list.
3. Press [Centre] to view details of a call, or [↶] to dial a number.

Using call record options

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

- **Detail:** view details of the selected call.
- **Paste:** edit the phone number.
- **Save contact:** save the number to Phonebook.
- **Send message:** [send an SMS or i-MMS message.](#)
- **Delete:** delete the selected call record or all call records.

Missed calls (Menu 1.2)

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

Dialled calls (Menu 1.3)

This menu displays the most recent calls you have dialled.

Received calls (Menu 1.4)

This menu displays the most recent calls you have received.

Delete all (Menu 1.5)

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

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

Call time (Menu 1.6)

This menu displays the time log for calls made and received. The actual time invoiced by your service provider will vary.

- **Last call time:** check the length of your last call.
- **Total sent:** check the total length of all the calls you have dialled.

- **Total received:** check the total length of all the calls you have received.

To reset the call timers, press <**Reset**>. You need to enter the phone password.

☒ The password is preset to **00000000**. You can change this password. ► p. 82

Call cost (Menu 1.7)

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

- **Last call cost:** check the cost of your last call.
- **Total cost:** check the total cost of all of your calls. If the total cost exceeds the maximum cost set in **Set max cost**, you must reset the counter before you can make another call.
- **Max cost:** check the maximum cost limit set in **Set max cost**.
- **Reset counters:** reset the cost counters.

- **Set max cost:** set the maximum cost authorised for your calls.
- **Price/Unit:** set the price per unit that is applied when the cost of your calls is calculated.

Phonebook (Menu 2)

You can store phone numbers on your SIM card and in your phone's memory. The SIM card and phone's memory are physically separate, but they are used as a single entity called Phonebook.

To access this menu, press [Centre] in Idle mode and select **Phonebook**.

Contacts list (Menu 2.1)

Use this menu to search for numbers in Phonebook.

Finding an entry

1. Enter the first few letters of the name that you want to find.
2. Select the name you want from the list.

3. Scroll to a number and press [] to dial, or press [Centre] to edit contact information.

Using Phonebook options

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

- **View:** display details about the contact.
- **Edit:** edit contact information.
- **Send message:** send an SMS, i-mail, or i-MMS message.
- **Add new contact:** add a new contact to Phonebook.
- **Copy to:** copy the contact to the phone's memory or the SIM card.
- **Send via bluetooth:** send the contact via Bluetooth.
- **Delete:** delete the selected contact or all contacts.

Add new contact *(Menu 2.2)*

Use this menu to add a new contact to Phonebook.

Storing a number in the phone's memory

1. Select **Phone**.
2. Change the settings or enter information about the contact.
 - **First name/Last name:** assign a name.
 - **Mobile/Home/Office/Fax/Other:** add a number in any category.
 - **Email:** [assign up to 3 e-mail addresses](#).
 - **Caller ID:** assign an image as a caller ID image to alert you to a call from the number.
 - **Ringtone:** assign a ringer melody to alert you to a call from the number.
 - **Group:** assign the number to a caller group.
 - **Memo:** add a memo about the person.
3. Press <**Save**> to save the contact.

Storing a number on the SIM card

1. Select **SIM** and enter a name.
2. Press [Down] and enter a phone number.
3. Press [Down] and change the location number, if necessary.

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

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

Group (Menu 2.3)

Use this menu to organise your contacts in caller groups.

Creating a new caller group

1. Press <**Options**> and select **Add**.
2. Enter a name for the group.
3. Select the Caller ID line and select an image.
4. Select the Ringtone line and select a melody.
5. Press <**Save**> to save the group.

Adding members to a caller group

1. Select a group.
2. Press <**Add**>. The list of contacts stored in your phone's memory is displayed.
3. Press [Centre] to select specific contacts you want to add to the selected group and press <**Select**>.
4. To add more members, press <**Options**> and select **Add** → a contact.
5. Repeat step 4 as desired.

Managing caller groups

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

- **View**: display the members of the selected group.
- **Add**: add a new group.
- **Edit**: change the properties of the selected group.
- **Send message**: send an SMS, i-mail, or i-MMS message to the members you want.

- **Delete:** delete the selected group or all groups. Group members, however, are not deleted from Phonebook.

Speed dial *(Menu 2.4)*

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

Assigning speed dial numbers

1. Select a key location from **2** to **9**. Key [**1**] is reserved for your voicemail server.
2. Select a contact you want from the contact list.
3. **Select a number, if the contact has more than one number.**

Managing speed dial entries

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

- **Add:** assign a number to an unassigned key.
- **View:** **check the name and number assigned to a key.**

- **Change:** assign a different number to a key.
- **Remove:** clear the speed dial setting for a key.

Dialling speed dial entries

Press and hold the appropriate key in Idle mode.

My name card *(Menu 2.5)*

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

Saving your name card

The procedure for creating your name card is the same as the one for saving a phone number in the phone's memory. ► p. 31

Using name card options

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

- **Edit:** edit the name card.
- **Send via bluetooth:** send the name card via Bluetooth.

- **Exchange name card:** exchange name cards with another person via Bluetooth.
- **Delete:** delete the name card.

Own number *(Menu 2.6)*

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

Management *(Menu 2.7)*

Use this menu to manage Phonebook.

- **Default saving:** select a default memory location to save contacts.
If you select **Ask on saving**, the phone will ask you to select a memory location when saving a number.
- **Copy all to phone:** copy all of the contacts stored on the SIM card to the phone's memory.
- **Delete all:** delete all of the contacts from your phone's memory, your SIM card, or both.

1. Press [Centre] to select the locations to be cleared.
2. Press **<Delete>**.
3. Enter the phone password and press **<OK>**.



The password is preset to **00000000**. You can change this password. ► p. 82

4. Press **<Yes>** to confirm the deletion.

- **Memory status:** [check the number of contacts you have stored in the phone's memory or on the SIM card.](#)

Service number *(Menu 2.8)*

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

1. Scroll to the number you want and press **<View>**.
2. Press **<Dial>** or [**↵**].

Applications *(Menu 3)*

Use this menu to play Java games, to record voice memos, to set time zones and alarms, or to use the phone as a calculator, timer, or stopwatch. You can also synchronise Phonebook or calendar data in the phone's memory with a computer.

To access this menu, press [Centre] in Idle mode and select **Applications**.

Java world *(Menu 3.1)*

Use this menu to access the list of the applications you have downloaded from the wireless web. ► p. 54

Voice recorder *(Menu 3.2)*

Use this menu to record voice memos.

Recording a voice memo

1. Press [Centre] to start recording.
2. Speak into the microphone.
Press [Centre] to pause or resume the recording.

3. Press **<Stop>** or [Down] to end recording. The voice memo is saved automatically.
4. Press [Up] to record another voice memo, or press **<Options>** to access the following options:
 - **Play:** play back your voice memo.
 - **Record:** record another voice memo.
 - **Go to voice list:** display the voice memo list.
 - **Send via:** send the voice memo via i-mail, i-MMS, or Bluetooth.
 - **Delete:** delete the voice memo.
 - **Rename:** change the name of the voice memo.
 - **Protection:** protect the voice memo from being deleted.
 - **Properties:** access the properties of the voice memo.

Playing a voice memo

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

During playback, use the following keys:

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

Using voice memo options

From the Voice recorder screen, press <Options> to access the following options:

- **Record:** record a new voice memo.
- **Go to voice list:** go to the list of the voice memos you have recorded.
- **Setting:** select a recording time setting.
Limit for message: record a voice memo for adding to an i-mail or i-MMS message.

Max record time: record a voice memo for the maximum recording time.

World time (Menu 3.3)

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

Setting your local time zone

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

Applying Daylight Savings Time

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

Alarm (Menu 3.4)

Use this menu to set an alarm to ring at a specific time.

Setting an alarm

1. Select the type of alarm.
2. Press [Left] or [Right] to select **On** on the **Alarm** line and press [Down].
3. Enter the time for the alarm to sound and press [Down].
4. Select **AM** or **PM** in 12-hour time format and press [Down].
5. Select a repeat option.
6. Select the **Alarm tone** line and select an alarm melody.
7. Press <**Save**>.

Stopping an alarm

- When an alarm sounds, press any key.
- When a wake-up call alarm sounds, press <**Confirm**> or [Centre].

Press any key, except <**Confirm**> and [Centre], to cause it to sound again after 5 minutes. You can do this a maximum of 5 times.

Setting the alarm to ring even if the phone is off

From the Alarm screen, select **Auto power** → **On**.

If the phone is off when it is time for the alarm to ring, the phone is switched on and sounds the alarm.

PIM sync (Menu 3.5)

Use this menu to synchronise personal data with corresponding PC applications via the optional WideSync program.

Creating a synchronisation profile

1. Press <**Add**>.
2. Specify the following information for the profile:
 - **Profile name:** enter the profile name.
 - **Sync category:** select the applications you want to synchronise.

- **Sync type:** select a synchronisation type.
- **Sync protocol:** select a connection method.

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

Starting synchronisation

1. Make sure that your PC has MS Outlook and the WideSync program installed, and the phone and the PC are connected by a USB cable or an active Bluetooth connection.
2. Open MS Outlook.
3. From the PIM sync screen, select a profile.
4. Press [Centre].

Using synchronisation options

From the PIM sync screen, press <**Options**> to access the following options:

- **Start sync:** start a synchronisation for the selected profile.
- **View result:** show the result of the last synchronisation.
- **New sync profile:** add a new profile.

- **Edit sync profile:** change the properties of the profile.
- **Delete:** delete the selected profile or all profiles.

Calculator (Menu 3.6)

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

1. Enter the first number.
 - Press <.**()**> to insert a decimal point or bracket.
 - Press [*****] or [**#**] to move the cursor.
2. Press one of the Navigation keys to access the math function you want.
3. Enter the second number.
4. Press [Centre] to view the result.
5. If necessary, repeat from step 2 to continue the calculation.

Converter (Menu 3.7)

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

1. Select a converter.
2. Press [Left] or [Right] to select the original unit and press [Down].
3. Enter the value to be converted and press [Down].
 - Press [$\ast$] to insert a decimal point.
 - Press [#] to change the temperature to above zero (+) or below zero (-).

☒ For the currency converter, you can view and set up the rates by pressing <**View rate**>.

4. Press [Left] or [Right] to select the unit you want to convert to.

The equivalent value for the amount you entered displays.

Timer (Menu 3.8)

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

Starting the timer

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

Stopping the timer

- Press any key when the timer rings.
- Press [Centre] on the Timer screen to stop the timer before it rings.

Stopwatch (Menu 3.9)

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

1. Press [Centre] to start the stopwatch.

2. Press [Centre] to check an interval. You can repeat this step for a total of 4 intervals.
3. To reset the stopwatch, press <**Reset**>.

SIM-AT (Menu 3.0)

This menu is available if you use a SIM AT card that supports SIM Application Tool kit menus and provides additional services, such as news, weather, sports, entertainment, and location services. Available services may vary, depending on your service provider's plans. For details, see your SIM card instructions or contact your service provider.

Messages (Menu 4)

Use the **Messages** menu to send and receive text messages. You can also use the cell broadcast message feature.

To access this menu, press [Centre] in Idle mode and select **Messages**.

Create message (Menu 4.1)

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



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

1. Enter your message.
2. Press <**Options**> to access one of the following options:
 - **Save and send**: both save a copy of the message and send the message.
 - **Send only**: send the message.
 - **Insert**: add a template, Phonebook entry, or bookmark.
 - **Add picture/Add animation/Add melody**: attach a picture, an animated image, or a melody.
 - **Save to**: save the message in the **Drafts** box or one of the folders you have created.

- **Language select:** change the language used in T9 input mode.
 - **Text style:** change the text attributes.
 - **Input method:** change the text input mode.
3. When you have finished, press **<Options>** and select **Save and send** or **Send only**.
 4. Enter a destination number.
To send the message to more than one recipient, press [Down] and fill in additional destination fields.
 5. Press [Centre] to send the message.

My messages (Menu 4.2)

Use this menu to store all of the messages you have received, sent, or failed to send.

Inbox (Menu 4.2.1)

This folder stores all of the messages you have received.

Viewing a message at the time of its receipt

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

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

To read a message immediately, press **<View>** and select a message from the Inbox.

Viewing a message in Inbox

The following icons may appear on the message list; depending on the message type or status, icons may vary:

-  SMS
-  CB messages
-  Delivery report for your sent messages



- According to the DRM (Digital Rights Management) system, messages having web content may not be able to be forwarded. They are indicated by the  icon.
- A  icon next to a message means that a message is of high priority. A grey-coloured message icon is of low priority.

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

- **View:** open the message.
- **Delete:** delete the message.
- **Move to My folder:** move the message to one of the folders you have created in the **My folders** menu.
- **Sort by:** change the sort order of the messages.
- **Protection:** protect the message from being deleted.

Using message options

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

SMS messages

- **Reply:** [reply to the sender via SMS, i-mail, or i-MMS message.](#)
- **Forward:** forward the message to other people.
- **Delete:** delete the message.

- **Move to phone/Move to SIM:** move the message between the SIM card and the phone's memory.
- **Cut address:** extract URLs, e-mail addresses, or phone numbers from the message.
- **Cut media:** save media content from the message into your phone's memory.
- **Protection:** protect the message from being deleted. You can protect only those messages stored in the phone's memory.

CB messages

- **Save:** save the message to the phone's memory.
- **Cut address:** extract URL, e-mail addresses, or phone numbers from the message.
- **Delete:** delete the message.

Delivery report messages

- **Cut address:** extract URL, e-mail addresses, or phone numbers from the message.
- **Delete:** delete the message.

- **Protection:** protect the message from being deleted.

Drafts (Menu 4.2.2)

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

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

- **Edit:** edit the message.
- **Delete:** delete the message or all messages.
- **Move to My folder:** move the message to one of the folders you have created in the **My folders** menu.
- **Sort by:** change the sort order of the messages.
- **Protection:** protect the message from being deleted.

Outbox (Menu 4.2.3)

This folder stores text messages that the phone has failed to send. The  icon tells the status of failed messages.

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

- **View:** display the message.
- **Delete:** delete the message or all messages.
- **Move to My folder:** move the message to one of the folders you have created in the **My folders** menu.
- **Sort by:** change the sort order of the messages.
- **Send again:** send the message.
- **Forward:** forward the message to other people.
- **Cut address:** extract URL, e-mail addresses, or phone numbers from the message.
- **Protection:** protect the message from being deleted.

Sent (Menu 4.2.4)

This folder stores text messages that you have sent.

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

- **View:** open the message.

- **Delete:** delete the message or all messages.
- **Move to My folder:** move the message to one of the folders you have created in the **My folders** menu.
- **Sort by:** change the sort order of the messages.
- **Forward:** forward the message to other people.
- **Cut address:** extract URL, e-mail addresses, or phone numbers from the message.
- **Protection:** protect the message from being deleted.

My folders (Menu 4.2.5)

Use this menu to create new folders and store and organise your messages.

Creating a new folder

1. Press **<Yes>**.
2. Enter a folder name and press **<OK>**.

Using folder options

On the folder list, press **<Options>** to access the following options:

- **Open:** open the folder.
- **Add folder:** add a new folder.
- **Rename folder:** change the name of the folder.
- **Delete:** delete the selected folder.

Templates (Menu 4.3)

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

Creating a text template

1. Select an empty location.
2. Enter a message and press **<OK>**.

Using template options

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

- **Edit:** edit the template.

- **Send message:** send a new message using the template.
- **Delete:** delete the template.
- **Add new:** add a new template.

Delete all (Menu 4.4)

Use this menu to delete messages in each message folder one by one, or all at once. You can also delete all messages in all folders at one time.

Settings (Menu 4.5)

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

Text message (Menu 4.5.1)

You can configure default SMS settings for sending or receiving messages.

- **Send settings:** set up the following options for sending a text message:
 - Reply path:** allow the recipient to reply to you through your message centre.

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

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

Bearer selection: select either **GSM** or **GPRS preferred**, depending on your network.

- **Current profile:** select a profile.
- **Profile settings:** set the following properties in a profile:

Service centre: store or change the number of your message centre.

Default destination: enter the default destination. It will be displayed in the first field on the Recipients field.

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

Default validity: set the length of time your messages are stored in the SMS centre.

Setting name: enter a profile name.

Broadcast (Menu 4.5.2)

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

- **Receive:** select the reception of CB messages.
- **Channel list:** indicate the channels from which you wish to receive CB messages. Please contact your service provider for further details.
- **Language:** select the preferred languages in which broadcast messages display.

Memory status (Menu 4.6)

Use this menu to view the maximum memory and available memory for text messages and broadcast messages. You can also view the memory currently in use in each folder.

i-mode (Menu 5)

In this menu, you can use the i-mode browser, send or receive i-mode mail and MMS message, and access Java applications.

To access this menu, press [Centre] in Idle mode and select **i-mode**. You can also quickly access this menu by pressing <**i-mode**> in Idle mode.

Menu (Menu 5.1)

Use this menu to access the main menu of the i-mode.

About i-mode

In i-mode, browse through your favourite magazines, book tickets and hotels for your vacations, find your favourite club, download the best ringtones and games at the lowest price, send live e-mails with photographs. You can do all of these economically since with i-mode you are charged by the amount of data you send and receive, not by the length of time you are on-line.



You can quickly launch the browser by pressing and holding [Centre] in Idle mode.

Navigating the i-mode browser

To	Press
scroll through browser items	[Up] or [Down].
select an item	[Centre].
return to the previous page	[Left] or [C].

- ☒ • Key operations on an i-mode screen depend on the screen contents at that time.
- You can answer a call while using the i-mode feature. After ending the call, the display returns to the function screen you were using.

Using browser options

Various options are available when you are using the i-mode browser. Press <Menu> to access the following options:

- **Add bookmark:** add a bookmark for the current web page.
- **Bookmarks:** access the bookmark list.

- **Save image:** save an image from the current web page.
- **Save page:** save the current web page.
- **Add to phonebook:** save the selected phone number or e-mail address to your Phonebook.
- **Certificate info:** access the server certificate of the current web page, if the page is an SSL (Secure Sockets Layer) page.
- **Go to webpage:** enter a URL address or select one from the Address history list.
- **Reload:** update the current web page.
- **Page info:** view the URL address of the current web page.
- **Create message:** send the URL address of the current page to other people via i-mail.

Exiting the i-mode browser

To exit the browser at any time, press the [].

Mail (Menu 5.2)

Use this menu to use i-mail and i-MMS message services.

☒ You can quickly access this menu by pressing **<Mail>** in Idle mode.

Create mail (Menu 5.2.1)

You can create and send a message, attaching various types of media files.

Creating and sending an i-mail

1. Select the **To1** field.
2. Enter an e-mail address and press [Centre].
3. Select the **Subject** field.
4. Enter the mail subject and press [Centre].
5. Select the **Message** field.
6. Enter the mail text and press [Centre].

To insert pictograms into text, press **<Options>** and select **Pictographic**.

You can use the copy and paste feature to quickly and easily enter text. ► p. 49

7. Select the **Attachment** field.
8. Add image, sound, or video files.
9. Select **Send** to send the mail.

Using mail options

While creating a mail, press **<Menu>** access the following options:

☒ Depending on the field selected on the mail screen, available options may vary.

- **Send**: send the mail.
- **Save**: save the mail to the Draft box.
- **Attach image**: attach an image file to the mail.
- **Attach melody**: attach a sound file to the mail.
- **Attach video**: attach a video file to the mail.
- **Delete attachment**: delete an attached file.
- **Play/View file**: play or view an attached file.
- **Open phonebook**: retrieve an e-mail address from Phonebook.
- **Add To**: add To addresses.
- **Add Cc**: add Cc addresses.

- **Add Bcc:** add Bcc addresses.
- **Change to To:** change a Cc or Bcc address to a To address.
- **Change to Cc:** change a To or Bcc address to a Cc address.
- **Change to Bcc:** change a To or Cc address to a Bcc address.
- **Del. address:** delete the selected address.
- **Attach header:** attach a header, as specified in the **Edit header** option of the Mail settings.
- **Attach sign.:** attach your signature, as specified in the **Edit signature** option of the Mail settings.
- **Del. message:** delete the mail text.
- **Del. mail:** delete the mail.

Copying and pasting text

1. While entering text in a mail or message, place the cursor where you wish by using the Navigation keys.
2. Press **<Options>** and select **Copy messages**.
3. Press **<Copy on>**.

4. Highlight the text as you want pressing the Navigation keys and press [Centre].
5. Select **Copy** or **Copy all** to copy all text.
To cut the selected text, select **Cut**.
6. Press **<Options>** and select **Paste** to paste the copied text.

Create MMS (Menu 5.2.2)

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



You cannot add media contents you have bought on the Internet to an SMIL slide.

Creating and sending an i-MMS message

1. On the Compose menu list, select **Send** → **Yes**.
2. Select the **To1** field.
3. Enter a phone number or an e-mail address and press [Centre].
4. Select the **Subject** field.

5. Enter the subject of your message and press [Centre].

6. Select the **SMIL** field.

☒ Depending on the field selected on the mail screen, available options may vary.

7. Use the following options to create an SMIL slide:

- **Add media:** add media items, such as images, sounds, or videos, including text.
- **Delete media:** delete the selected media item.
- **Play audio:** play the selected sound file.
- **Send:** send the message.
- **Save:** save the message into the **Draft** box.
- **Preview:** view the message slide you have composed.
- **Add slide:** add a new slide after the last slide. Once you have added slides, you can scroll between them by pressing [Left] or [Right].
- **Delete slide:** delete the selected slide.
- **Text colour:** select a colour for the message text.

- **Background colour:** select a colour for the slide background.

- **Set Fit mode:** select the size in which the image displays.

Hidden: the image displays in its actual size.

Fill: the image is scaled to fit into the display area.

Meet: the image is scaled so that the longer side, either the height or width, fits the corresponding side of the display area.

Slice: the image is scaled so that the shorter side, either the height or width, fits the corresponding side of the display area.

- **Options:** change the display time for each item in the message, such as a slide, text, an image, or an audio clip.
- **Resize region:** change the size of the image area. Press [Up] or [Down] to move the border line.
- **Switch positions:** switch the order of the image and text.

- **Previous slide:** move to the previous slide.
- **Next slide:** move to the next slide.

8. When you finish, press <**Send**>.

9. Select **Send** to send the message.

Using message options

While creating an i-MMS message, you can access a variety of options by pressing <**Menu**>. ► p. 48

Inbox (Menu 5.2.3)

Use this menu to access i-mails and i-MMS messages you have received.

- ☒ When the Inbox reaches its maximum limit, new i-mails or i-MMS messages will overwrite old messages that have already been read.

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

- **Reply:** send a reply to the sender.
- **Reply quoted:** send a reply with the message included.

- **Reply all:** send a reply to the sender and all of the recipients of the message.
- **Reply quoted all:** send a reply to the sender and all of the recipients with the message included.
- **Forward:** forward the message to another person. If the message contains media content you have bought on the Internet, forwarding is not available.
- **Delete:** delete the current message.
- **Save address:** save the sender's address to Phonebook.
- **Add to phonebook:** save a phone number and an e-mail address in the text into Phonebook.
- **Create message:** create a new message.
- **Save melody:** save the melody attached to the message.
- **Save attachment:** save the attached melody and image file.
- **Copy message:** copy the content of the message.
- **Copy subject:** copy the subject of the message.
- **Copy address:** copy the address of the message.

- **Play SMIL:** play the SMIL slides of an MMS message.
- **Browse SMIL:** display the SMIL slides in Edit mode.
- **Protect On/Off:** protect the message from being deleted.

On the message list, press <**Menu**> to access the following options:

- **Show all:** display all received messages.
- **Show unread:** display only unread messages.
- **Show read:** display only viewed messages.
- **Show protect.:** display only protected messages.
- **Delete one:** delete the selected message.
- **Delete read mail:** delete all viewed messages, except protected ones.
- **Delete all:** delete all messages.
- **Delete all + Pr.:** delete all messages including protected ones.
- **Title sort:** sort messages by title.
- **Address sort:** sort messages by address.

- **Date sort:** sort messages by date.

Sent message (Menu 5.2.4)

Use this menu to access the i-mails and i-MMS messages you have sent.



When the Sent message box reaches its maximum limit, new i-mails or i-MMS messages will overwrite old messages that have already been read.

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

- **Re-edit:** change the message and then send it.
- **Delete:** delete the current message.
- **Save address:** save a recipient's address to Phonebook.
- **Add to phonebook:** save a phone number or an e-mail address in the text to Phonebook.
- **Create message:** create a new message.
- **Copy message:** copy the content of the message.
- **Copy subject:** copy the subject of the message.
- **Play SMIL:** play the SMIL slides of an MMS message.

- **Browse SMIL:** display the SMIL slides in Edit mode.
- **Protect On/Off:** protect the message from being deleted.

On the message list, press <**Menu**> to access the following options:

- **Title sort:** sort messages by title.
- **Address sort:** sort messages by address.
- **Date sort:** sort messages by date.
- **Delete one:** delete the selected message.
- **Delete all:** delete all messages.
- **Delete all + Pr.:** delete all messages including protected ones.

Draft (Menu 5.2.5)

Use this menu to access i-mails and i-MMS messages you have saved or failed to send.

- ☒ When the Draft box reaches its maximum limit, new mails or MMS messages will overwrite old messages that have already been read.

On the message list, press <**Menu**> to access the following options:

- **Delete one:** delete the selected message.
- **Delete all:** delete all messages.

Selective retrieval (Menu 5.2.6)

Use this menu to select which parts of messages you want to retrieve from the server, such as the sender's address, subject, or message text.

Check new mail (Menu 5.2.7)

Use this menu to check the i-mode centre for new i-mails and i-MMS messages and then retrieve them to the phone.

Mail settings (Menu 5.2.8)

Use this menu to change the various settings for sending and receiving i-mails and i-MMS messages.

- **Edit header:** enter a mail header to be inserted at the start of your mail text. If you select **Auto attach**, the header will be automatically inserted into all of your outgoing messages.

- **Edit signature:** enter a tag line to be inserted at the end of your mail text. If you select **Auto attach**, the signature will be automatically inserted into all of your outgoing messages.
- **Reply marker:** set a marker to be inserted at the start of the text when you send a reply.
- **Auto play:** set a melody or an SMIL slide to be automatically played when you open a message.
- **Auto reception:** set the phone to retrieve new messages from the server at the time of their receipt.
- **Receive attachment:** select types of attachments you want to receive.
- **Attachment data:** receive MFi files attached to messages.
- **Check settings:** check your current mail settings.
- **Back:** exit the **Mail settings** menu and return to the previous menu level.

Mailbox status (Menu 5.2.9)

Use this menu to check the total amount of memory available and the amount of memory currently in use in each message box.

Back (Menu 5.2.0)

Use this menu to exit the **Mail** menu.

Java application (Menu 5.3)

You can download and play games and MIDlets (Java applications that run on mobile phones) from various sources using the i-mode browser, and store them on your phone.

On the applications list, press <**Menu**> to access the following Java system options:

- **Description Setting:** set whether or not the description of an application is displayed before downloading.
- **Delete All:** delete all Java applications.
- **Storage Status:** check the amount of memory being used and the memory remaining for storing Java applications.

- **Trace Info.:** view trace information for a Java application.
- **About:** view the version and copyright information of the Java VM on your phone.

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

☒ Depending on the type of application selected, available options may vary.

- **Properties:** view the properties of the application.
- **Upgrade:** update the selected application.
- **Delete:** delete the application.
- **Network Connection:** select whether or not the application connects to the network when it runs, if the selected one is an online application.
- **Auto Start Setting:** select whether or not the application launches automatically when selected.

SMS (Menu 5.4)

Use this menu to access the **Messages** menu directly. ► p. 40

Bookmarks (Menu 5.5)

Use this menu to access URL addresses of websites you have bookmarked while navigating the wireless web.

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

- **Open:** display the bookmarked page.
- **Copy address:** copy the URL address of the bookmark.
- **Edit title:** change the title of the bookmark.
- **Create message:** send the bookmark via message.
- **Delete one:** delete the selected bookmark.
- **Delete all:** delete all bookmarks.

Go to webpage (Menu 5.6)

Use this menu to access a specific website by manually entering a URL address or selecting one from the Address history list.

Saved pages (Menu 5.7)

Use this menu to access the list of the web pages you have saved.

While viewing a page, press <**Menu**> to access the following options:

- **Save image:** save an image on the page.
- **Edit title:** change the title of the page.
- **Certificate info:** access the server certificate of the page.
- **Page info:** view the URL address of the page.
- **Protect On/Off:** protect the page from being deleted.
- **Delete:** delete the page.

On the page list, press <**Menu**> to access the following options:

- **Open:** open the selected page.
- **Edit title:** change the title of the currently selected page.
- **Protect On/Off:** protect the currently selected page from being deleted.

- **Delete one:** delete the selected page.
- **Delete all:** delete all saved pages.
- **Delete all + Pr.:** delete all saved pages including protected ones.

Settings (Menu 5.8)

Use this menu to change the settings for browser connections and display.

- **Set time out:** set the phone to disconnect from the network after a specified length of time of inactivity.
- **Load images:** set whether or not the phone displays images on web pages.
- **Wrap text:** set whether the phone wraps text on web pages to fit your phone's display, or displays text as it is on the web page.
- **Certificates:** view the list of server certificates you have received while navigating the wireless web, or switch the selected certificate from valid to invalid, or vice versa.

- **Send terminal info:** set whether or not the phone sends its information to the web server while navigating the wireless web.
- **Video auto play:** set whether or not the phone automatically plays videos after download.
- **Check settings:** check your current settings.
- **Back:** exit the **Settings** menu and return to the previous menu level.

File manager *(Menu 6)*

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

To access this menu, press [Centre] in Idle mode and select **File manager**.

- ☒ According to the DRM (Digital Rights Management) system, web content may not be able to be forwarded. The content is indicated by the  icon.

Images

This menu displays photos you have taken and images downloaded or received in messages.

Viewing an image

1. Select an image folder.
2. Scroll to an image and press [Centre].

Using image options

While viewing an image or the image list, press **<Options>** to access the options. ► p. 68

Videos

This menu displays video clips you have recorded, downloaded, or received in messages.

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

Playing a video clip

1. Select a video folder.
2. Scroll to a clip and press [Centre]. ► p. 70

Using video options

While viewing the video list, press <**Options**> to access the options.

- **Play:** play the selected file.
- **Send via:** send the file via i-mail, i-MMS, or Bluetooth.
- **Set as:** set the video clip as your wallpaper for the idle screen, as a caller ID image for a Phonebook entry, or as a ringtone.
- **Delete:** delete the selected file or all files.
- **Rename:** change the file name.
- **Move to Favourite videos:** move the file to the **Favourite videos** folder.
- **Move to Video clips:** move the file to the **Video clips** folder.
- **Move to Downloaded videos:** move the file to the **Downloaded videos** folder.
- **Share for bluetooth:** set whether or not to prevent this file from being accessed from other Bluetooth devices.

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

Music

This menu displays AAC, M4A files you have downloaded, received in messages, or imported from your computer.

Playing a music file

Scroll to a file and press [Centre].

During playback, use the following keys:

Key	Function
Centre	Pauses or resumes playback.
Left	Moves back to the previous file.
Right	Skips to the next file.
Down	Stops playback.
▲/▼	Adjusts the volume level.
1	Turns 3D sound on or off.

Key	Function
2	Changes the skin type.
3	Changes the repeat mode.
4	Changes the equaliser mode.

Using music options

While playing music files or viewing the music list, press **<Options>** to access the following options:

- **Play/Pause:** begin or pause playback.
- **Send via bluetooth:** send the file via Bluetooth.
- **Setting:** change the default settings for playing music files.

Repeat mode: select a repeat mode.

Shuffle: set the music player to play music at random.

Equalizer: select an equaliser setting.

3D sound: turn 3D sound on or off.

Skin: select a skin type.

Volume: select a volume level.

- **Set as:** set the file as your ringtone or as a ringtone for a Phonebook entry.
- **Delete:** delete the selected file or all files.
- **Rename:** change the file name.
- **Share for bluetooth:** set whether or not to prevent this file from being accessed from other Bluetooth devices.
- **Protection:** protect the file from being deleted.
- **Properties:** access the file properties.

Sounds

This menu displays sound files you have recorded, downloaded, or received in messages.

Playing a sound clip

1. Select a sound folder.
2. Scroll to a clip and press [Centre]. ▶ p. 36

Using sound options

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

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

- **Send via:** send the file via i-mail, i-MMS, or Bluetooth.
- **Set as:** set the file as your ringtone or as a ringtone for a Phonebook entry.
- **Delete:** delete the selected file or all files.
- **Rename:** change the file name.
- **Move to Favourite sounds:** move the file to the **Favourite sounds** folder.
- **Move to Voice list:** move the file to the **Voice list** folder.
- **Move to Downloaded sounds:** move the file to the **Downloaded sounds** folder.
- **Share for bluetooth:** set whether or not to prevent this file from being accessed from other Bluetooth devices.
- **Protection:** protect the file from being deleted.
- **Properties:** access the file properties.

Other files

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

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

- **Send via bluetooth:** send the file via Bluetooth.
- **Delete:** delete the selected file or all files.
- **Rename:** change the name of the file.
- **Share for bluetooth:** set whether or not to prevent this file from being accessed from other Bluetooth devices.
- **Protection:** protect the file from being deleted.
- **Properties:** access the file properties.

Memory status

Use this menu to view the maximum memory and available memory in terms of both size and number of media items. You can also view the amount of memory in use in each media folder.

Calendar (Menu 7)

The calendar feature enables you to keep track of your schedule and to-do list, to view missed alarm events, and to make a memo.

To access this menu, press [Centre] in Idle mode and select **Calendar**.

Consulting the calendar

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

The number of events for the specific day appears at the bottom of the calendar. The following icons indicate the type of event:

-  Scheduled event
-  Anniversary
-  To do item
-  Memo

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

- **View mode:** change the view mode of the calendar.

- **Create:** add a new event.
- **Go to:** go to the current date or enter a specific date.
- **Sort by:** sort items by the type of event.
- **Delete:** delete items stored on the calendar by using various deleting options.

☒ You can delete recurring events in Day view only.

- **Missed alarm events:** view events whose alarms you have missed.
- **Memory status:** view the memory status for items stored in the phone's memory.

Creating an event

You can schedule up to 400 events on the calendar, and schedule more than one event per day.

Entering a new scheduled event

1. Scroll to a date on the calendar.
2. Press <**Options**> and select **Create** → **Schedule**.

3. Enter information or change the settings in the following entry fields:
 - **Subject:** enter the title of the event.
 - **Details:** enter event details.
 - **Start date** and **Start time:** enter the starting date and time for the event.
 - **AM/PM:** select **AM** or **PM** in 12-hour time format.
 - **End date** and **End time:** enter the ending date and time for the event.
 - **AM/PM:** select **AM** or **PM** in 12-hour time format.
 - **Location:** enter information about the event location.
 - **Alarm:** set an alarm for the event.
 - **Before:** set how long before the event the alarm is to alert you.
 - **Alarm tone:** select an alarm tone.
 - **Repeat:** set the event to recur and a repeat unit.

- **Until:** if the event will recur, set the ending date.

4. Press **<Save>** to save the event.

Entering a new anniversary

1. Select a date on the calendar.
2. Press **<Options>** and select **Create** → **Anniversary**.
3. Enter information or change the settings in the following entry fields:
 - **Occasion:** enter information about the anniversary.
 - **Date:** enter the date.
 - **Alarm:** set an alarm for the anniversary.
 - **Before:** set how long before the event the alarm is to alert you.
 - **Alarm time:** enter the time for the alarm to sound.
 - **AM/PM:** select **AM** or **PM** in 12-hour time format.
 - **Alarm tone:** select an alarm tone.

- **Repeat every year:** set the phone to remind you of the anniversary every year.

4. Press <**Save**> to save the event.

Entering a memo

1. Select a date on the calendar.
2. Press <**Options**> and select **Create** → **Memo**.
3. Enter a memo and press <**Save**>.

Entering a To do item

1. Select a date on the calendar.
2. Press <**Options**> and select **Create** → **To do**.
3. Enter information or change the settings in the following entry fields:
 - **To do:** enter information about the item.
 - **Start date:** enter the starting date.
 - **Due date:** enter the ending date.
 - **Select priority:** select a priority level.
4. Press <**Save**> to save the event.

Viewing an event

Square brackets on a calendar date indicate the following type of events scheduled for that day:

- Blue: scheduled event
- Orange: anniversary
- Red: To do item
- Green: memo

1. Select a date on the calendar to display the events for the day.
2. Select an event to view its details.

While viewing an event or the event list, press <**Options**> to access the following options:

- **View:** display the event details.
- **Edit:** edit the event.
- **Create:** add a new event.
- **Send via bluetooth:** send the event via Bluetooth.
- **View mode:** change the view mode of the calendar.
- **Sort by:** sort items by the type of event.

- **Delete:** delete items stored on the calendar by using various deleting options.
- **Missed alarm events:** view events whose alarms you have missed.
- **Memory status:** view the memory status for items stored in the phone's memory.

Viewing an event in different mode

By default, the calendar appears in Month view mode.

Press <**Options**> and select **View mode** to change the mode.

Day view

You can view events for the selected date.

Select an event to view its details.

The following icons will be displayed according to the event's type and status:

-  Alarm set
-  Recurring event
-  Completed To do item

-  To do item priority; its colour indicates the priority level (Red: high, Blue: normal, and Grey: low)

Week view

You can view events (only for items stored for Schedule) for the selected week.

A cell on the timetable indicates the presence of event information.

Select the cell that contains the event you want.

Viewing a missed alarm event

When you are unable to acknowledge an alarm, the phone displays a missed alarm notification.

- Press <**View**> to view the corresponding event.
- Press <**Exit**>.

Accessing missed event alarm

1. Press <**Options**> and select **Missed alarm events**.
2. Select an event.
3. Press <**Confirm**> to confirm and delete the event.

Using missed alarm options

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

- **View**: display the event details.
- **Delete**: delete the event.
- **Delete all**: delete all events.

Camera (Menu 8)

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

To access this menu, press [Centre] in Idle mode and select **Camera**.

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

Taking a photo

You can take photos in various modes using the phone. The camera produces JPEG photos.

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

1. Access the **Camera** menu to turn on the camera. The image to be captured appears on the display.
2. [Adjust the image to be captured.](#)
 - Press <> to access camera options.
 - ▶ [next section](#)
 - Use the keypad to change the camera settings or switch to other modes. ▶ p. 66
3. Press [Centre] to take a photo. The photo is saved in the **Photos** folder.

To	Press
use photo options	< Options >. ▶ p. 67
return to Capture mode	< Preview >.

Using camera options in Capture mode

In Capture mode, press  to access the following options:

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

- **Timer:** set a time delay before the camera takes a photo.
- **Go to photos:** access to the **Photos** folder.
- **Settings:** change the default settings for taking a photo.
 - Size:** select an image size.
 - Quality:** select an image quality setting.
 - Viewfinder mode:** select a preview screen.
 - Shutter sound:** select the sound that you hear when you press the shutter release, [\[Centre\]](#).
- **Short cuts:** view the functions of the keys you can use in Capture mode.

Using the keypad in Capture mode

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

Key	Function
▲	Flips the image vertically.
▼	Shows the mirror image.

Key	Function
Up/Down	Zooms in or out.
Left/Right	Adjusts the image brightness.
1	Switches to Record mode. ► p. 68
2	Changes the image size.
3	Changes the image quality.
4	Changes the camera mode.
5	Changes the colour tone or applies a special effect to a photo.
6	Reduces the distortion on the image to maximise detail and sharpness.
7	Selects a decorative frame.
8	Sets the timer.
9	Goes to the Photos folder.
0	Determines the use of the flash.
*	Changes the preview screen.

Using photo options

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

- **View:** access one of the multi-shot photos.
- **Take another:** return to Capture mode.
- **Send via:** send the file via i-mail, i-MMS, or Bluetooth.
- **Set as:** set the photo as your wallpaper for the display or as a caller ID image for a Phonebook entry.
- **Delete:** delete the file.
- **Rename:** change the file name.
- **Go to photos:** access the **Photos** folder.
- **Protection:** protect the file from being deleted.
- **Properties:** access the file properties.

Viewing a photo

1. In Capture mode, press <> and select **Go to photos**.
2. Scroll to a photo and press [Centre].

While viewing a photo or the photo list, press **<Options>** to access the following options:

- **List:** return the screen to the photo list.
- **View:** view the file on the full screen.
- **Send via:** send the file via i-mail, i-MMS, or Bluetooth.
- **Set as:** set the photo as your wallpaper for the display or as a caller ID image for a Phonebook entry.
- **Delete:** delete the file or all files.
- **Rename:** change the file name.
- **Move to Favourite images:** move the file to the **Favourite images** folder.
- **Slide show:** display all files in turn as a slide show. You can select the rate at which the photos cycle.
- **Share for bluetooth:** set whether or not to prevent this file from being accessed from other Bluetooth devices.
- **Protection:** protect the file from being deleted.

- **Properties:** access the file properties.

Recording a video

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

1. In Capture mode, press [1].
2. Adjust the image to be captured.
 - Press **<📷>** to access camera options.
▶ next section
 - Use the keypad to change the camera settings or switch to other modes. ▶ p. 69
3. Press [Centre] to start recording.
4. Press [Centre] or **<📷>** to stop recording. The video is automatically saved in the **Video clips** folder.

To	Press
play back the video clip	[Centre].
use video options	<Options> . ▶ p. 70
return to Record mode	<Preview> .

Using camera options in Record mode

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

- **Take photo:** switch to Capture mode.
- **Effects:** change the colour tone or apply a special effect to a video.
- **Flash:** determine the use of the flash.
- **Timer:** set a time delay before the camera starts recording.
- **Go to videos:** access the **Video clips** folder.
- **Settings:** change the following settings for recording a video:

Recording mode: select a video recording mode.

Select **Limit for message** to record a video suitable for an i-mail or i-MMS message. The video clip is saved in 3GP format.

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

Size: select a frame size.

Video quality: select an image quality setting.

Screen mode: select a preview screen.

Audio record: record audio with a video clip.

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

Using the keypad in Record mode

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

Keys	Function
▲	Flips the image vertically.
▼	Shows the mirror image.
Up/Down	Zooms in or out.
Left/Right	Adjusts the image brightness.
1	Switches to Capture mode. ► p. 65
2	Changes the frame size.
3	Changes the image quality.
4	Changes the video recording mode.

Keys	Function
5	Changes the colour tone or applies a special effect to a video image.
6	Reduces the distortion on the image to maximise detail and sharpness.
7	Mutes or unmutes the audio.
8	Sets the timer.
9	Goes to the Video clips folder.
0	Determines the use of the flash.
*	Changes the preview screen.

Using video options

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

- **Record another:** return to Record mode.
- **Send via:** send the file via i-mail, i-MMS, or Bluetooth.

- **Set as:** set the video clip as your wallpaper for the idle screen, as a caller ID image for a Phonebook entry, or as a ringtone.
- **Delete:** delete the file.
- **Rename:** change the file name.
- **Go to videos:** access the **Video clips** folder.
- **Protection:** protect the file from being deleted.
- **Properties:** access the file properties.

Playing a video clip

1. In Record mode, press <> and select **Go to videos**.
2. Scroll to a video clip and press [Centre].
During playback, use the following keys on the display:

Keys	Function
Centre	Pauses or resumes playback.
Left	Moves backward through a file.
Right	Moves forward through a file.

Keys	Function
▲/▼	Adjusts the volume.
Down	Stops playback.

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

- **List:** return to the video clip list.
- **Send via:** send the file via i-mail, i-MMS, or Bluetooth.
- **Set as:** set the video clip as your wallpaper for the idle screen, as a caller ID image for a Phonebook entry, or as a ringtone.
- **Delete:** delete the file.
- **Rename:** change the file name.
- **Move to Favourite videos:** move the file to the **Favourite videos** folder.
- **Share for bluetooth:** set whether or not to prevent this file from being accessed from other Bluetooth devices.
- **Protection:** protect the file from being deleted.
- **Properties:** access the file properties.

Settings *(Menu 9)*

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

To access this menu, press [Centre] in Idle mode and select **Settings**.

Time & Date *(Menu 9.1)*

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

► p. 36

- **Set time:** enter the current time.
- **AM/PM:** select **AM** or **PM** in 12-hour time format.
- **Time format:** select a time format.
- **Set date:** enter the current date.
- **Starting day of calendar:** set which day of the week the calendar starts with.

Phone settings (Menu 9.2)

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

Language (Menu 9.2.1)

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

Greeting message (Menu 9.2.2)

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

Slide settings (Menu 9.2.3)

Use this menu to set how the phone reacts when you open it for an incoming call, and when you close it while using a function.

- **Up:** set whether or not to answer a call by opening the phone.
- **Down:** set whether or not the phone maintains the menu you are using when you close the phone.



When you set **Down** to **Continue operation**, the keypad lock works just in Idle mode.

Short cut (Menu 9.2.4)

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

Assigning a shortcut menu

1. Scroll to a key to be used as a shortcut key.
2. Press **<Options>** and select **Change**.
3. Select a menu to be assigned to the key.

Using shortcut options

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

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

Volume key (Menu 9.2.5)

Use this menu to set how the Volume key acts when a call comes in.

- **Silence:** mute the ringer by holding down the key.

- **Reject:** allow you to reject calls by holding down the key.

Extra settings (Menu 9.2.6)

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

- **Auto redial:** set the phone to make up to ten attempts to redial a phone number after an unsuccessful call.
- **Anykey answer:** answer an incoming call by pressing any key, except <Reject> and [].
When this option is not selected, you must press <Accept> or [] to answer a call.

Display settings (Menu 9.3)

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

Wallpaper (Menu 9.3.1)

You can set up the idle screen on both displays.

- **Main display:** select an image or a video clip to be displayed on the display.

- **Text position:** select a text position on the display. If you don't want to display text in Idle mode, select **Off**.
- **Text mode:** select a text mode.
- **Text colour:** select a text colour.
- **Graphic logo:** set the phone to display a graphic icon instead of service provider's logo on the idle screen. This is only available if a graphic icon has been received in a message.

Skin (Menu 9.3.2)

You can select a skin colour for Menu mode.

LCD brightness (Menu 9.3.3)

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

Back light (Menu 9.3.4)

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

Menu functions

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

Dialling font colour (Menu 9.3.5)

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

Service light (Menu 9.3.6)

The service LED on the external keypad blinks to indicate the service status. Use this menu to activate or deactivate the feature of the service light.

Sound settings (Menu 9.4)

Use this menu to customise various sound settings.

Incoming call (Menu 9.4.1)

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

- **Ringtone:** select a ringtone for the call ringer.

- **Volume:** select a ringer volume.
- **Alert type:** specify how you are to be informed of incoming calls.

Melody: the phone rings using the selected ringtone.

Vibration: the phone vibrates but not rings.

Vibration then melody: the phone vibrates three times and then starts ringing.

Keypad tone (Menu 9.4.2)

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



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

Message tone (Menu 9.4.3)

Use this menu to set up the ringer for incoming SMS messages, i-mails and i-MMS messages, and CB messages.

- **Tone:** select one of several message tones.

- **Alert type:** specify how you are to be informed of any incoming messages.
- **Repetition:** specify how often the phone informs you of a new message.

Power on/off (Menu 9.4.4)

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

Slide tone (Menu 9.4.5)

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

Quiet mode (Menu 9.4.6)

Use this menu to set how the phone acts to alert you to a specific event in Quiet mode, instead of making sounds.

- **Vibration:** set the phone to vibrate.
- **Mute:** mute all sound settings.

Extra tones (Menu 9.4.7)

Use this menu to customise additional tones for the phone.

- **Minute minder:** set the phone to beep every minute during an outgoing call to keep you informed of the length of your call.
- **Connection tone:** [set the phone to beep when an outgoing call is connected to the system.](#)
- **Alert on call:** set the phone to beep when you receive a new message or when the time for an alarm comes during a call.
- **Error tone:** set the phone to beep when you have made a mistake or something wrong happens on the phone.

Network services (Menu 9.5)

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

Call diverting (Menu 9.5.1)

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

1. Select a call diverting option:
 - **Divert always:** divert all calls.
 - **Busy:** divert calls when you are on another call.
 - **No reply:** divert calls when you do not answer the phone.
 - **Unreachable:** divert calls when you are not in an area covered by your service provider or when your phone is switched off.
 - **Cancel all:** cancel all call diverting options.
2. Select the type of calls to be diverted.
3. To activate call diverting, select **Activate**.
Otherwise, select **Deactivate**.
4. Move to the **Divert to** line.
5. Enter the number to which calls are to be diverted and press **<Select>**.

6. If you selected **No reply**, move to the **Seconds** line and select the length of time the network delays before diverting a call.

Call barring (Menu 9.5.2)

This network service allows you to restrict your calls.

1. Select a call barring option:
 - **All outgoing:** prohibit outgoing calls.
 - **International:** prohibit international calls.
 - **International except home:** only allow calls to numbers within the current country when you are abroad, and to your home country.
 - **All incoming:** prohibit incoming calls.
 - **Incoming while abroad:** prohibit incoming calls when you use your phone outside of your home country.
 - **Cancel all:** cancel call barring settings, allowing calls to be sent and received normally.
 - **Change barring password:** change the call barring password obtained from your service provider.

2. Select the type of calls to be barred.
3. Select **Activate**. To deactivate call barring, select **Deactivate**.
4. Enter the call barring password supplied by your service provider and press <**Select**>.

Call waiting (Menu 9.5.3)

This network service informs you when someone is trying to reach you while you are on another call.

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

Network selection (Menu 9.5.4)

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

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

- **Automatic:** connect to the first available network when roaming.
- **Manual:** select the network you want.

Caller ID (Menu 9.5.5)

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

- **Default:** use the default setting provided by the network.
- **Hide number:** ensure your number does not display on the other person's phone.
- **Send number:** send your number each time you make a call.

Voice mail server (Menu 9.5.6)

Use this menu to store the number of the voicemail server and access your voicemails.

- ☒ You must enter the voice server number before you can access your voicemails. Your service provider can give the voice server number.

- **Connect to voice server:** connect to the voicemail server to allow you to listen to your messages. You can also connect to the voicemail server by pressing and holding [**1**] in Idle mode.
- **Voice server number:** enter the voicemail server number.

Closed user group (Menu 9.5.7)

Use this menu to set incoming and outgoing calls to be restricted to a selected user group. For details about how to create a closed user group, contact your service provider.

- **Index list:** add, delete, or activate CUG index numbers. Press <**Options**> to access the options for setting up an index list.
- **Outside access:** enable calls to numbers other than those in the Closed user group. This feature depends on the nature of your CUG subscription.
- **Default group:** enable the default CUG, if you have set one with your service provider. When making a call, you are given the option of using your default CUG, instead of selecting one from the list.

- **Deactivate:** deactivate the CUG function, if the default group is enabled or a CUG index is selected.

Band selection (Menu 9.5.8)

For the phone to make and receive phone calls, it must register with an available network. Your phone can handle any of the following types of networks: GSM 1900 and Combined GSM 900/1800.

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

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

Bluetooth (Menu 9.6)

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

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

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

Setting up the Bluetooth feature

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

- **Activation:** activate or deactivate the Bluetooth feature.
- **My devices:** search for connectable Bluetooth devices.
- **My phone's visibility:** allow other Bluetooth devices to search for your phone.

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

Searching for and pairing with a Bluetooth device

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

If you have searched for devices before, the phone displays **More devices** along with the devices you have searched for previously. To search for new devices, select **More devices**.

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

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

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

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

3. Select a device.

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

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

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

Using device options

1. From the device list, scroll to a device you want.
2. If your phone didn't find Bluetooth services for the selected device, press **<Select>**.
3. Press **<Options>** to access the following options:

- ☒ Options may vary depending on the paired device.

- **Connect:** connect to the currently selected device.
- **Disconnect:** end the connection with the device.
- **Browse files:** search for data from the device and import data directly to your phone.
- **Service list:** refresh the Bluetooth service list.
- **Rename:** rename the paired device.
- **Authorise device/Unauthorised device:** determine whether or not the phone asks you to permit connection when other devices try to connect to your phone.
- **Delete:** delete the device or all devices.

Sending data via Bluetooth

1. Activate the Bluetooth feature.
2. Select the application in which the item you want to send is stored.
3. Scroll to the item you want and press <**Options**>.
4. Select **Send via** → **Bluetooth**, or **Send via bluetooth**.

The phone searches for devices within range and displays a list of available devices.

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

Receiving data via Bluetooth

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

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



Received image, video, and sound files are stored in the corresponding download folder in **File manager**.

Security (Menu 9.7)

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



If you enter an incorrect PIN/PIN2 three times in succession, the SIM card is blocked. To unblock it you need to enter your PUK/PUK2 (Personal Unblocking Key). The codes are supplied by your network operator.

PIN check (Menu 9.7.1)

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

Change PIN (Menu 9.7.2)

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

Phone lock (Menu 9.7.3)

This feature locks the phone from unauthorised use.

When this feature is enabled, you must enter a 4- to 8-digit phone password each time the phone is switched on.

The password is preset to **00000000**. To change the password, use the **Change password** menu.

Change password (Menu 9.7.4)

Use this menu to change your phone password.

Privacy (Menu 9.7.5)

Use this menu to lock all menu functions on the phone, except for call functions.

When this feature is enabled, you must enter the phone password to access menu functions.

SIM lock (Menu 9.7.6)

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

FDN mode (Menu 9.7.7)

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

Change PIN2 (Menu 9.7.8)

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

i-mode lock (Menu 9.7.9)

Use this menu to lock or unlock the **i-mode** menu. You must enter the phone password to enable this feature.

i-mode settings (Menu 9.8)

Use this menu to create and customise the i-mode profiles containing the settings for connecting your phone to the network. You need these settings to use the web browser or send i-mail or i-MMS message.

- ☒ Your phone is suited for connecting to the network by default. If you change the settings without first checking with your service provider, the i-mail and i-MMS features may not work properly.

For each profile, the following options are available:

- **Profile name:** enter a profile name.
- **Proxy port:** enter the port number of the proxy server.
- **SSL port:** enter the port number of the SSL server.
- **Proxy host:** enter the IP address of the proxy server.
- **Portal URL:** enter the URL address of the i-mode server.
- **Mail URL:** enter the URL address of the i-mail server.
- **MMS URL:** enter the URL address of the i-MMS server.
- **APN:** enter the access point name used for the address of the GPRS network.

- **User ID:** enter the user ID required to connect to the GPRS network.
- **User password:** enter the password required to connect to the GPRS network.

Reset settings (Menu 9.9)

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

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

- ☒ The password is preset to **00000000**. You can change this password. ► p. 82

Solve problems

Help and personal needs

To save the time and expense of an unnecessary service call, perform the simple checks in this section before contacting a service professional.

When you switch on your phone, the following messages may appear:

"Insert SIM card"

- Be sure 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 PIN supplied with the SIM card.
- The PIN check feature is enabled. Every time the phone is switched on, the PIN has to be entered. To disable this feature, use the **PIN check** menu.

"Enter PUK"

- The PIN code has been entered incorrectly three times in succession, and the phone is now blocked. Enter the PUK supplied by your service provider.

"No service," "Network failure," or "Not done" displays

- The network connection has been lost. You may be in a weak signal area. Move and try again.
- You are trying to access an option for which you have no subscription with your service provider. Contact the service provider for further details.

You have entered a number but it was not dialled

- Be sure that you have pressed [].
- Be sure that you have accessed the right cellular network.
- Be sure that you have not set an outgoing call barring option.

Your correspondent cannot reach you

- Be sure that your phone is switched on. ([] pressed for more than one second.)

- Be sure that you are accessing the correct cellular network.
- Be sure that you have not set an incoming call barring option.

Your correspondent cannot hear you speaking

- Be sure that you have switched on the microphone.
- Be sure that you are holding the phone close enough to your mouth. The microphone is located at the bottom of the phone.

The phone starts beeping and “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 re-call a Phonebook entry

- Use the **Contacts list** menu to ensure the number has been stored correctly.
- Re-store the number, if necessary.

The battery doesn't charge properly or the phone sometimes turns itself off

- Wipe the charging contacts both on the phone and on the battery with a clean soft cloth.

If the above guidelines do not help you to solve the problem, take note of:

- The model and serial numbers of your phone
- Your warranty details
- A clear description of the problem

Then contact your local dealer or Samsung after-sales service.

Health and safety information

Exposure to Radio Frequency (RF) Signals

Certification Information (SAR)

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

The exposure limit set by the FCC for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate (SAR). The SAR is a measure of the rate of absorption of RF energy by the human body expressed in units of watts per kilogram (W/kg). The FCC requires wireless phones to comply with a safety limit of 1.6 watts per kilogram (1.6 W/kg). The FCC exposure limit incorporates a substantial margin of safety to give additional protection to the public and to account for any variations in measurements.

SAR tests are conducted using standard operating positions accepted by the FCC with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

Before a new model phone is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the exposure limit established by the FCC. Tests for each model phone are performed in positions and locations (e.g. at the ear and worn on the body) as required by the FCC. Body-worn operations are restricted to Samsung-supplied, approved, or non- Samsung designated accessories that have no metal and must provide at least 1.5 cm separation between the device, including its antenna (whether extended or retracted) and the user's body. Non-compliance with the above restrictions may result in violation of FCC RF exposure guidelines.

The FCC has granted an Equipment Authorization for this mobile phone with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. The maximum SAR values for this model phone as reported to the FCC are:

1900

- Head: 0.357 W/Kg.
- Body-worn: 0.397 W/Kg.

SAR information on this and other model phones can be viewed on-line at www.fcc.gov/oet/fccid. This site uses the phone FCC ID number, A3LSGHS400i.

Sometimes it may be necessary to remove the battery pack to find the number. Once you have the FCC ID number for a particular phone, follow the instructions on the website and it should provide values for typical or maximum SAR for a particular phone. Additional product specific SAR information can also be obtained at www.fcc.gov/cgb/sar.

Consumer Information on Wireless Phones

The U.S. Food and Drug Administration (FDA) has published a series of Questions and Answers for consumers relating to radio frequency (RF) exposure from wireless phones. The FDA publication includes the following information:

What kinds of phones are the subject of this update?

The term wireless phone refers here to hand-held wireless phones with built-in antennas, often called “cell,” “mobile,” or “PCS” phones. These types of wireless phones can expose the user to measurable radio frequency energy (RF) because of the short distance between the phone and the user's head. These RF exposures are limited by Federal Communications Commission safety guidelines that were developed with the advice of FDA and other federal health and safety agencies. When the phone is located at greater distances from the user, the exposure to RF is drastically lower because a person's RF exposure decreases rapidly with increasing distance from the source. The so-called “cordless

phones,” which have a base unit connected to the telephone wiring in a house, typically operate at far lower power levels, and thus produce RF exposures well within the FCC's compliance limits.

Do wireless phones pose a health hazard?

The available scientific evidence does not show that any health problems are associated with using wireless phones. There is no proof, however, that wireless phones are absolutely safe. Wireless phones emit low levels of radio frequency energy (RF) in the microwave range while being used. They also emit very low levels of RF when in the stand-by mode. Whereas high levels of RF can produce health effects (by heating tissue), exposure to low level RF that does not produce heating effects causes no known adverse health effects. Many studies of low level RF exposures have not found any biological effects. Some studies have suggested that some biological effects may occur, but such findings have not been confirmed by additional research. In some cases, other researchers have had difficulty in reproducing those studies, or in determining the reasons for inconsistent results.

What is FDA's role concerning the safety of wireless phones?

Under the law, FDA does not review the safety of radiation-emitting consumer products such as wireless phones before they can be sold, as it does with new drugs or medical devices. However, the agency has authority to take action if wireless phones are shown to emit radio frequency energy (RF) at a level that is hazardous to the user. In such a case, FDA could require the manufacturers of wireless phones to notify users of the health hazard and to repair, replace or recall the phones so that the hazard no longer exists.

Although the existing scientific data do not justify FDA regulatory actions, FDA has urged the wireless phone industry to take a number of steps, including the following:

- "Support needed research into possible biological effects of RF of the type emitted by wireless phones;
- "Design wireless phones in a way that minimizes any RF exposure to the user that is not necessary for device function; and

- "Cooperate in providing users of wireless phones with the best possible information on possible effects of wireless phone use on human health.

FDA belongs to an interagency working group of the federal agencies that have responsibility for different aspects of RF safety to ensure coordinated efforts at the federal level. The following agencies belong to this working group:

- "National Institute for Occupational Safety and Health
- "Environmental Protection Agency
- "Federal Communications Commission
- "Occupational Safety and Health Administration
- "National Telecommunications and Information Administration

The National Institutes of Health participates in some interagency working group activities, as well.

FDA shares regulatory responsibilities for wireless phones with the Federal Communications Commission (FCC). All phones that are sold in the United States must comply with FCC safety guidelines that limit RF

exposure. FCC relies on FDA and other health agencies for safety questions about wireless phones.

FCC also regulates the base stations that the wireless phone networks rely upon. While these base stations operate at higher power than do the wireless phones themselves, the RF exposures that people get from these base stations are typically thousands of times lower than those they can get from wireless phones. Base stations are thus not the primary subject of the safety questions discussed in this document.

What are the results of the research done already?

The research done thus far has produced conflicting results, and many studies have suffered from flaws in their research methods. Animal experiments investigating the effects of radio frequency energy (RF) exposures characteristic of wireless phones have yielded conflicting results that often cannot be repeated in other laboratories. A few animal studies, however, have suggested that low levels of RF could accelerate the development of cancer in laboratory

animals. However, many of the studies that showed increased tumor development used animals that had been genetically engineered or treated with cancer-causing chemicals so as to be pre-disposed to develop cancer in absence of RF exposure. Other studies exposed the animals to RF for up to 22 hours per day. These conditions are not similar to the conditions under which people use wireless phones, so we don't know with certainty what the results of such studies mean for human health.

Three large epidemiology studies have been published since December 2000. Between them, the studies investigated any possible association between the use of wireless phones and primary brain cancer, glioma, meningioma, or acoustic neuroma, tumors of the brain or salivary gland, leukemia, or other cancers. None of the studies demonstrated the existence of any harmful health effects from wireless phones RF exposures. However, none of the studies can answer questions about long-term exposures, since the average period of phone use in these studies was around three years.

What research is needed to decide whether RF exposure from wireless phones poses a health risk?

A combination of laboratory studies and epidemiological studies of people actually using wireless phones would provide some of the data that are needed. Lifetime animal exposure studies could be completed in a few years. However, very large numbers of animals would be needed to provide reliable proof of a cancer promoting effect if one exists. Epidemiological studies can provide data that is directly applicable to human populations, but ten or more years' follow-up may be needed to provide answers about some health effects, such as cancer. This is because the interval between the time of exposure to a cancer-causing agent and the time tumors develop - if they do - may be many, many years. The interpretation of epidemiological studies is hampered by difficulties in measuring actual RF exposure during day-to-day use of wireless phones. Many factors affect this measurement, such as the angle at which the phone is held, or which model of phone is used.

What is FDA doing to find out more about the possible health effects of wireless phone RF?

FDA is working with the U.S. National Toxicology Program and with groups of investigators around the world to ensure that high priority animal studies are conducted to address important questions about the effects of exposure to radio frequency energy (RF).

FDA has been a leading participant in the World Health Organization international Electromagnetic Fields (EMF) Project since its inception in 1996. An influential result of this work has been the development of a detailed agenda of research needs that has driven the establishment of new research programs around the world. The Project has also helped develop a series of public information documents on EMF issues.

FDA and Cellular Telecommunications & Internet Association (CTIA) have a formal Cooperative Research and Development Agreement (CRADA) to do research on wireless phone safety. FDA provides the scientific oversight, obtaining input from experts in government, industry, and academic organizations. CTIA-funded research is conducted through contracts

to independent investigators. The initial research will include both laboratory studies and studies of wireless phone users. The CRADA will also include a broad assessment of additional research needs in the context of the latest research developments around the world.

What steps can I take to reduce my exposure to radio frequency energy from my wireless phone?

If there is a risk from these products - and at this point we do not know that there is - it is probably very small. But if you are concerned about avoiding even potential risks, you can take a few simple steps to minimize your exposure to radio frequency energy (RF). Since time is a key factor in how much exposure a person receives, reducing the amount of time spent using a wireless phone will reduce RF exposure.

- “If you must conduct extended conversations by wireless phone every day, you could place more distance between your body and the source of the RF, since the exposure level drops off dramatically with distance. For example, you could use a

headset and carry the wireless phone away from your body or use a wireless phone connected to a remote antenna.

Again, the scientific data do not demonstrate that wireless phones are harmful. But if you are concerned about the RF exposure from these products, you can use measures like those described above to reduce your RF exposure from wireless phone use.

What about children using wireless phones?

The scientific evidence does not show a danger to users of wireless phones, including children and teenagers. If you want to take steps to lower exposure to radio frequency energy (RF), the measures described above would apply to children and teenagers using wireless phones. Reducing the time of wireless phone use and increasing the distance between the user and the RF source will reduce RF exposure.

Some groups sponsored by other national governments have advised that children be discouraged from using wireless phones at all. For

example, the government in the United Kingdom distributed leaflets containing such a recommendation in December 2000. They noted that no evidence exists that using a wireless phone causes brain tumors or other ill effects. Their recommendation to limit wireless phone use by children was strictly precautionary; it was not based on scientific evidence that any health hazard exists.

Do hands-free kits for wireless phones reduce risks from exposure to RF emissions?

Since there are no known risks from exposure to RF emissions from wireless phones, there is no reason to believe that hands-free kits reduce risks. Hands-free kits can be used with wireless phones for convenience and comfort. These systems reduce the absorption of RF energy in the head because the phone, which is the source of the RF emissions, will not be placed against the head. On the other hand, if the phone is mounted against the waist or other part of the body during use, then that part of the body will absorb more RF energy. Wireless phones marketed in the U.S. are required to meet safety requirements regardless of whether they

are used against the head or against the body. Either configuration should result in compliance with the safety limit.

Do wireless phone accessories that claim to shield the head from RF radiation work?

Since there are no known risks from exposure to RF emissions from wireless phones, there is no reason to believe that accessories that claim to shield the head from those emissions reduce risks. Some products that claim to shield the user from RF absorption use special phone cases, while others involve nothing more than a metallic accessory attached to the phone. Studies have shown that these products generally do not work as advertised. Unlike “hand-free” kits, these so-called “shields” may interfere with proper operation of the phone. The phone may be forced to boost its power to compensate, leading to an increase in RF absorption. In February 2002, the Federal Trade Commission (FTC) charged two companies that sold devices that claimed to protect wireless phone users from radiation with making false and unsubstantiated

claims. According to FTC, these defendants lacked a reasonable basis to substantiate their claim.

What about wireless phone interference with medical equipment?

Radio frequency energy (RF) from wireless phones can interact with some electronic devices. For this reason, FDA helped develop a detailed test method to measure electromagnetic interference (EMI) of implanted cardiac pacemakers and defibrillators from wireless telephones. This test method is now part of a standard sponsored by the Association for the Advancement of Medical instrumentation (AAMI). The final draft, a joint effort by FDA, medical device manufacturers, and many other groups, was completed in late 2000. This standard will allow manufacturers to ensure that cardiac pacemakers and defibrillators are safe from wireless phone EMI. FDA has tested wireless phones and helped develop a voluntary standard sponsored by the Institute of Electrical and Electronic Engineers (IEEE). This standard specifies test methods and performance requirements for hearing aids and wireless phones so that no interference occurs when a

person uses a compatible phone and a compatible hearing aid at the same time. This standard was approved by the IEEE in 2000.

FDA continues to monitor the use of wireless phones for possible interactions with other medical devices. Should harmful interference be found to occur, FDA will conduct testing to assess the interference and work to resolve the problem.

Additional information on the safety of RF exposures from various sources can be obtained from the following organizations:

- FCC RF Safety Program:
<http://www.fcc.gov/oet/rfsafety/>
- Environmental Protection Agency (EPA):
<http://www.epa.gov/radiation/>
- Occupational Safety and Health Administration's (OSHA):
<http://www.osha.gov/SLTC/radiofrequencyradiation/index.html>

- National institute for Occupational Safety and Health (NIOSH):
<http://www.cdc.gov/niosh/emfpg.html>
- World health Organization (WHO):
<http://www.who.int/peh-emf/>
- International Commission on Non-Ionizing Radiation Protection:
<http://www.icnirp.de>
- National Radiation Protection Board (UK):
<http://www.nrpb.org.uk>
- Updated 4/3/2002: US food and Drug Administration
<http://www.fda.gov/cellphones>

Road Safety

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

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

1. Get to know your wireless phone and its features, such as speed dial and redial. If available, these features help you to place your call without taking your attention off the road.
2. When available, use a hands-free device. If possible, add an additional layer of convenience and safety to your wireless phone with one of the many hands free accessories available today.

3. Position your wireless phone within easy reach. Be able to access your wireless phone without removing your eyes from the road. If you get an incoming call at an inconvenient time, let your voice mail answer it for you.
4. Let the person you are speaking with know you are driving; if necessary, suspend the call in heavy traffic or hazardous weather conditions. Rain, sleet, snow, ice and even heavy traffic can be hazardous.
5. Do not take notes or look up phone numbers while driving. Jotting down a “to do” list or flipping through your address book takes attention away from your primary responsibility, driving safely.
6. Dial sensibly and assess the traffic; if possible, place calls when you are not moving or before pulling into traffic. Try to plan calls when your car will be stationary. If you need to make a call while moving, dial only a few numbers, check the road and your mirrors, then continue.
7. Do not engage in stressful or emotional conversations that may be distracting. Make people you are talking with aware you are driving and suspend conversations that have the potential to divert your attention from the road.
8. Use your wireless phone to call for help. Dial 9-1-1 or other local emergency number in the case of fire, traffic accident or medical emergencies. Remember, it is a free call on your wireless phone!
9. Use your wireless phone to help others in emergencies. If you see an auto accident, crime in progress or other serious emergency where lives are in danger, call 9-1-1 or other local emergency number, as you would want others to do for you.
10. Call roadside assistance or a special non-emergency wireless assistance number when necessary. If you see a broken-down vehicle posing no serious hazard, a broken traffic signal, a minor traffic accident where no one appears injured, or a vehicle you know to be stolen, call roadside assistance or other special non-emergency number.

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

For more information, please call 1-888-901-SAFE, or visit our web-site www.wow-com.com

Provided by the Cellular Telecommunications & Internet Association

Operating Environment

Remember to follow any special regulations in force in any area and always switch your phone off whenever it is forbidden to use it, or when it may cause interference or danger. When connecting the phone or any accessory to another device, read its user's guide for detailed safety instructions. Do not connect incompatible products.

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

Using Your Phone Near Other Electronic Devices

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

Pacemakers

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

These recommendations are consistent with the independent research and recommendations of Wireless Technology Research.

Persons with pacemakers:

- should always keep the phone more than 15 cm (6 inches) from their pacemaker when the phone is switched on.
- should not carry the phone in a breast pocket.

- should use the ear opposite the pacemaker to minimize potential interference.

If you have any reason to suspect that interference is taking place, switch your phone off immediately.

Hearing Aids

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

Other Medical Devices

If you use any other personal medical devices, consult the manufacturer of your device to determine if it is adequately shielded from external RF energy. Your physician may be able to assist you in obtaining this information. Switch your phone off in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.

Vehicles

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles. Check with the manufacturer or its representative regarding your vehicle. You should also consult the manufacturer of any equipment that has been added to your vehicle.

Posted Facilities

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

Potentially Explosive Environments

Switch your phone off when in any area with a potentially explosive atmosphere and obey all signs and instructions. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death.

Users are advised to switch the phone off while at a refueling point (service station). Users are reminded of the need to observe restrictions on the use of radio equipment in fuel depots (fuel storage and distribution

areas), chemical plants or where blasting operations are in progress.

Areas with a potentially explosive atmosphere are often but not always clearly marked. They include below deck on boats, chemical transfer or storage facilities, vehicles using liquefied petroleum gas (such as propane or butane), areas where the air contains chemicals or particles, such as grain, dust or metal powders, and any other area where you would normally be advised to turn off your vehicle engine.

Emergency Calls

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

Remember, to make or receive any calls the phone must be switched on and in a service area with adequate signal strength. Emergency calls may not be

possible on all wireless phone networks or when certain network services and/or phone features are in use. Check with local service providers.

To make an emergency call:

1. If the phone is not on, switch it on.
2. Key in the emergency number for your present location (for example, 911 or other official emergency number). Emergency numbers vary by location.
3. Press .

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

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

Restricting Children's access to your Phone

Your phone is not a toy. Children should not be allowed to play with it because they could hurt themselves and others, damage the phone or make calls that increase your phone bill.

FCC Notice and Cautions

FCC Notice

- ☒ This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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

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

Cautions

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

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

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

Other Important Safety Information

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

Product Performance

Getting the Most Out of Your Signal Reception

The quality of each call you make or receive depends on the signal strength in your area. Your phone informs you of the current signal strength by displaying a number of bars next to the signal strength icon. The more bars displayed, the stronger the signal.

If you're inside a building, being near a window may give you better reception.

Understanding the Power Save Feature

If your phone is unable to find a signal after 15 minutes of searching, a Power Save feature is automatically activated. If your phone is active, it periodically rechecks service availability or you can check it yourself by pressing any key.

Anytime the Power Save feature is activated, a message displays on the screen. When a signal is found, your phone returns to standby mode.

Understanding How Your Phone Operates

Your phone is basically a radio transmitter and receiver. When it's turned on, it receives and transmits radio frequency (RF) signals. When you use your phone, the system handling your call controls the power level. This power can range from 0.006 watts to 0.2 watts in digital mode.

Maintaining Your Phone's Peak Performance

For the best care of your phone, only authorized personnel should service your phone and accessories. Faulty service may void the warranty.

There are several simple guidelines to operating your phone properly and maintaining safe, satisfactory service.

- Hold the phone with the antenna raised, fully-extended and over your shoulder.
- Try not to hold, bend or twist the phone's antenna.
- Don't use the phone if the antenna is damaged.
- Speak directly into the phone's receiver.

- Avoid exposing your phone and accessories to rain or liquid spills. If your phone does get wet, immediately turn the power off and remove the battery. If it is inoperable, call Customer Care for service.

Availability of Various Features / Ring Tones

Many services and features are network dependent and may require additional subscription and/or usage charges. Not all features are available for purchase or use in all areas. Downloadable Ring Tones may be available at an additional cost. Other conditions and restrictions may apply. See your service provider for additional information.

Battery Standby and Talk Time

Standby and talk times will vary depending on phone usage patterns and conditions. Battery power consumption depends on factors such as network configuration, signal strength, operating temperature, features selected, frequency of calls, and voice, data, and other application usage patterns.

Battery Precautions

- Never use any charger or battery that is damaged in any way.
- Use the battery only for its intended purpose.
- If you use the phone near the network's base station, it uses less power; talk and standby time are greatly affected by the signal strength on the cellular network and the parameters set by the network operator.
- Battery charging time depends on the remaining battery charge and the type of battery and charger used. The battery can be charged and discharged hundreds of times, but it will gradually wear out. When the operation time (talk time and standby time) is noticeably shorter than normal, it is time to buy a new battery.
- If left unused, a fully charged battery will discharge itself over time.
- Use only Samsung-approved batteries and recharge your battery only with Samsung-approved chargers. When a charger is not in use, disconnect it from the power source. Do not leave the battery connected to a charger for more than a week, since overcharging may shorten its life.
- Extreme temperatures will affect the charging capacity of your battery: it may require cooling or warming first.
- Do not leave the battery in hot or cold places, such as in a car in summer or winter conditions, as you will reduce the capacity and lifetime of the battery. Always try to keep the battery at room temperature. A phone with a hot or cold battery may temporarily not work, even when the battery is fully charged. Li-ion batteries are particularly affected by temperatures below 0 °C (32 °F).
- Do not short-circuit the battery. Accidental short-circuiting can occur when a metallic object (coin, clip or pen) causes a direct connection between the + and - terminals of the battery (metal strips on the battery), for example when you carry a spare battery in a pocket or bag. Short-circuiting the terminals may damage the battery or the object causing the short-circuiting.

- Dispose of used batteries in accordance with local regulations. In some areas, the disposal of batteries in household or business trash may be prohibited. For safe disposal options for Li-Ion batteries, contact your nearest Samsung authorized service center. Always recycle. Do not dispose of batteries in a fire.

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 will corrode electronic circuits.
- Do not use the phone with a wet hand. Doing so may cause an electric shock to you or damage to the phone.
- Do not use or store the phone in dusty, dirty areas, as its moving parts may be damaged.
- Do not store the phone in hot areas. High temperatures can shorten the life of electronic devices, damage batteries, and warp or melt certain plastics.
- Do not store the phone in cold areas. When the phone warms up to its normal operating temperature, moisture can form inside the phone, which may damage the phone's electronic circuit boards.
- Do not drop, knock or shake the phone. Rough handling can break internal circuit boards.
- Do not use harsh chemicals, cleaning solvents or strong detergents to clean the phone. Wipe it with a soft cloth slightly dampened in a mild soap-and-water solution.

- Do not paint the phone. Paint can clog the device's moving parts and prevent proper operation.
- Do not put the phone in or on heating devices, such as a microwave oven, a stove or a radiator. The phone may explode when overheated.
- When the phone or battery gets wet, the label indicating water damage inside the phone changes color. In this case, phone repairs are no longer guaranteed by the manufacturer's warranty, even if the warranty for your phone has not expired.
- If your phone has a flash or light, do not use it too close to the eyes of people or animals. This may cause damage to their eyes.
- Use only the supplied or an approved replacement antenna. Unauthorized antennas or modified accessories may damage the phone and violate regulations governing radio devices.
- If the phone, battery, charger or any accessory is not working properly, take it to your nearest qualified service facility. The personnel there will assist you, and if necessary, arrange for service.

Index

A

- AB mode, text input • 21
- Alarm • 37
- Answering
 - call • 24
 - second call • 25
- Anykey answer • 73
- Auto redial • 73

B

- Backlight time, set • 73
- Band selection • 78
- Barring, calls • 76
- Battery
 - charging • 7
 - low indicator • 8
 - precautions • 87
- Bluetooth
 - receiving, data • 81
 - sending, data • 81
 - settings • 79
- Broadcast messages • 42

C

- Calculator • 38
- Calendar • 61
- Call cost • 30
- Call records
 - dialled • 29
 - missed • 29
 - received • 29
- Call time • 29
- Caller group
 - creating • 32
 - managing • 32
- Caller ID • 77
- Calls
 - answering • 24
 - barring • 76
 - diverting • 76
 - holding • 25
 - redialling • 24
 - rejecting • 24
 - transferring • 26
 - waiting • 77
- Camera
 - options • 66
 - photos • 65
 - videos • 68

- CB (Cell Broadcast) messages • 42
- Characters, enter • 21
- Conference call • 27
- Connection tone • 75
- Converter • 39
- Creating messages
 - i-mail • 48
 - i-MMS • 49
 - SMS • 40
- Creating organiser
 - anniversaries • 62
 - events • 61
 - memos • 63
 - tasks • 63

D

- Deleting
 - call records • 28
 - events • 64
 - i-mail/MMS • 52, 53
 - missed alarms • 65
 - phonebook 34
 - photos • 68
 - text messages • 42
 - video clips • 71

- Delivery reports, message • 45
- Dialled calls • 29
- Dialling font, set • 74
- Display
 - language • 72
 - settings • 73
- Diverting, calls • 76
- DTMF tones, send • 26

E

- Emergency calls • 90
- External speaker • 26

F

- FDN (Fixed Dialling Number) mode • 82
- Forwarding
 - i-mail/MMS • 51
 - SMS • 42

G

- Games • 54
- Greeting message • 72

H

- Health and safety • 86
- Holding, call • 25

I

- Icons, description • 10
- Images, downloaded • 57
- i-mail
 - creating/sending • 48
 - deleting • 52
 - setting • 53
- i-menu • 46
- i-MMS
 - creating/sending • 49
 - deleting • 51
 - setting • 53
- i-mode
 - accessing • 46
 - locking • 82
 - setting • 56
- Inbox, messages
 - i-mail/MMS • 51
 - SMS • 41
- International calls • 23
- Internet • 46

K

- Key tone volume • 74
- Keypad tones
 - selecting • 74
 - sending • 27

L

- Language, select • 72
- Last number, redial • 24
- Locking
 - menu functions • 82
 - phone • 82
 - SIM card • 82
- Low battery indicator • 8

M

- Memory status
 - downloaded items • 60
 - i-mail/MMS • 54
 - phonebook 34
 - text messages • 46
- Message tone • 74
- Messages
 - cell broadcast • 42
 - greeting • 72
 - i-mail • 48
 - i-MMS • 49
 - text • 40
 - voice • 77
- Minute minder • 75
- Missed alarm events • 64
- Missed calls • 29
- Multi-party calls • 27

- Music, downloaded • 58

Muting

- key tones • 27
- microphone • 26

- My name card • 33

N

Names

- entering • 21
- searching • 30
- Network band, select • 78
- Network selection • 77
- Network services • 75

O

Outbox, messages

- i-mail/MMS • 52
- SMS • 43

- Own number • 34

P

Password

- call barring • 76
- phone • 82

Phone

- care and maintenance • 91
- display • 10

- icons • 10
- locking • 82
- password • 82
- resetting • 83
- switching on/off • 8
- unpacking • 6

Phonebook

- copying • 31
- deleting • 34
- editing • 31
- managing • 34
- options • 31
- speed-dialling • 33

Photos

- deleting • 68
- taking • 65
- viewing • 67

PIM sync

- creating a profile • 37
- starting • 38

PIN, change • 81

PIN2, change • 82

Power on/off tone • 75

Privacy • 82

Problems, solve • 84

R

- Received calls • 29
- Received messages
 - i-mail/MMS • 51
 - text • 41
- Recording
 - videos • 68
 - voice memos • 35
- Redialling
 - automatically • 73
 - manually • 24
- Resetting phone • 83
- Ringer
 - incoming calls • 74
 - messages • 74
- Road safety • 88
- Roaming • 77

S

- Safety
 - information • 86
- Security, calls • 81
- Sent messages
 - i-mail/MMS • 52
 - text • 43
- SIM card
 - inserting • 7
 - locking • 82

Slide

- setting • 72
- tone • 75

- SMS messages
 - creating/sending • 40
 - deleting • 42
 - viewing • 41
- Sound settings • 74
- Sounds, downloaded • 59
- Speed-dial • 33
- Stopwatch • 39
- Switching on/off
 - microphone • 26
 - phone • 8

T

- Templates • 44
- Text input mode, change • 21
- Text, enter • 21
- Timer • 39
- Tone

- alert • 75
- connect • 75
- error • 75
- keypad • 74
- message • 74
- minute minder • 75
- power on/off • 75

V

- Videos
 - deleting • 71
 - playing • 70
 - recording • 68
- Voice memos
 - playing • 35
 - recording • 35
- Voice recorder
 - playing • 35
 - recording • 35
- Voicemail server
 - connecting • 77
 - editing • 78

W

- Waiting call • 77
- World time • 36