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

SAMSUNG ELECTRONICS

SAMSUNG

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SAMSUNG

DRAFT

SGH-C400
User's Guide

Please read this manual before operating your phone, and keep it for future reference.

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.

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

Qualified service

Only qualified service personnel may repair your phone.

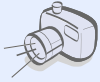
For more detailed safety information, see "Health and safety information" on page 70.

About this Guide

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

In this guide, the following instruction icons appear:

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



- **Camera**
  Use the camera module on your phone to take a photo.

Special features of your phone

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

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

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

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

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

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

- **Calculator**
  Perform basic calculations and do currency conversions.

- **Oraganizer**
  Keep track of your daily and monthly schedules and tasks.

- **Alarm**
  Use your phone as an alarm clock to wake you up in the morning or notify you of an impending event.

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Overview of menu functions

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Press <**Ph.Book**> in Idle mode.

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1. Shows only if supported by your SIM card.

Unpack

Make sure you have each item

Phone

Travel adapter

Battery

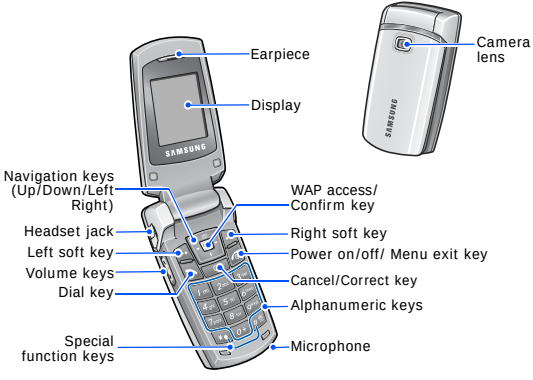
User's Guide

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

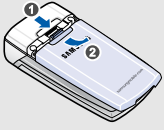
First steps to operating your phone

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.

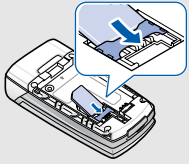
Install and charge the phone

1 Remove the battery cover.



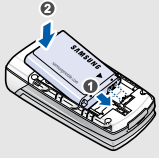
☑ If the phone is already on, first turn it off by pressing and holding [ ].

2 Insert the SIM card.



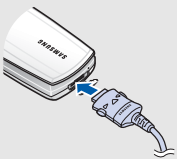
☑ Make sure that the gold-coloured contacts on the card are face down.

3 Install the battery.



4 Reattach the cover.

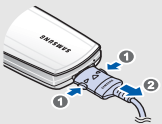
5 Plug the travel adapter into the phone.



6 Plug the adapter into a standard AC wall outlet.

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

8 Remove the adapter from the phone.



Low battery indicator

When the battery is low:

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

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

Power on or off

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

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

Keys and display

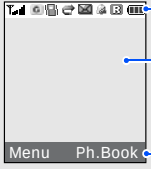
Keys

	Perform the function indicated on the bottom line of the display.
	In Idle mode, access your favorite menus directly. ▶ p. 67 In Menu mode, scroll through menu options.
	In Idle mode, launch the web browser. In Menu mode, select the highlighted menu option or confirm input.

	Make or answer a call. In Idle mode, retrieve the numbers recently dialed, missed, or received.
C	Delete characters from the display. In Menu mode, return the display to the previous menu level.
	Press and hold to switch the phone on or off. End a call. In Menu mode, cancel input and return the phone to Idle mode.
1 ∞ ⋮ 0 +	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 Silent mode. Press and hold [*] to enter a pause between numbers.
	Adjust the phone volume. In Idle mode, adjust the key tone volume.

Display

Layout



Icons
display various icons.

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

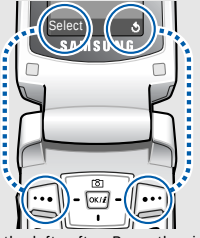
Soft key function indicators
show the current functions assigned to the soft keys.

Icons[1]

- Received signal strength
- GPRS network
- Call in progress
- Out of your service area; you cannot make or receive calls
- Call diverting feature active ▶ p. 34
- Roaming network
- New text message
- New voicemail message
- New multimedia message
- Alarm set ▶ p. 54
- Silent mode or call ringer set to vibrate ▶ p. 14, p. 38
- Battery power level

1. Depending on your country or service provider, the icons shown on the display may vary.

Access menu functions

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

Customize your phone

Display language

1. In Idle mode, press <**Menu**> and select **Phone settings** → **Language**.
2. Select a language.

Call ringer melody

1. In Idle mode, press <**Menu**> and select **Sound settings** → **Ring tone**.
2. Select a ringtone.

Idle mode wallpaper

You can set wallpaper for the idle screen.

1. In Idle mode, press <**Menu**> and select **Phone settings** → **Display settings** → **Wallpaper** → **Wallpaper list**.
2. Select an image name.
3. Press <**Select**> to save the wallpaper.

Menu shortcuts

You can set [Down], [Left], and [Right] to function as shortcuts to access your favorite meAnus.

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

Switch to Silent mode

You can switch the phone to Silent mode to avoid disturbing other people.

Press and hold [#] in Idle mode.

Phone lock

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

1. In Idle mode, press <**Menu**> and select **Phone 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. Enter an area code and phone number.
2. Press [ ].
3. To end the call, press [ ].

Answer a call

1. When the phone rings, press [ ].
2. To end the call, press [ ].

Adjust the volume during a call

Press [Volume].

Step outside the phone

Begin with your camera, web browser, and other special features

Use the camera

Take a photo

1. Open the phone.
2. In Idle mode, press and hold [Up] to turn on the camera.
3. Aim the lens at the subject and adjust the image.
4. Press [**OK**/*i*] to take a photo.
5. Press <**Save**>.
6. Press < > to take another photo.

View a photo

1. In Idle mode, press [Up] and select **My photos**.
2. Select the photo you want.

Browse the web

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

Launch the browser

In Idle mode, press [OK/*i*].

Navigate the browser

- To scroll through browser items, press [Up] or [Down].
- To select an item, press [OK/*i*].
- To return to the previous page, press [**C**].
- To access browser options, press and hold [*].

Use Phonebook

Add an entry

To the phone's memory:

1. In Idle mode, enter a phone number and press <**Save**>.
2. Select a number type.
3. Select **Phone**.
4. Enter a name and press <**OK**>.
5. Press <**OK**> to save the contact.

To the SIM card:

1. In Idle mode, enter a phone number and press <**Save**>.
2. Select a number type.
3. Select **SIM**.
4. Enter a name and press <**OK**>.

Press <**OK**> to save the contact.

Find an entry

1. In Idle mode, press <**Ph.Book**> and select **Search**.
2. Select a contact.
3. Scroll to a number, and press [ ] to dial or <**Options**> to access options.

Send messages

Send a text message (SMS)

1. In Idle mode, press <**Menu**> and select **Messages** → **Text messages** → **Create**.
2. Enter the message text.
3. Press <**Options**> and select **Save and send** or **Send only**.

Send a text message (SMS) (continued)

4. If you selected **Save and send**, select a memory location.
5. Enter a destination number and press <**OK**>.

Send a multimedia message (MMS)

1. In Idle mode, press <**Menu**> and select **Messages** → **Multimedia messages** → **Create**.
2. Enter the message subject and press <**Next**>.
3. Select **Add here**.
4. Select an adding option and add message contents.
5. When you have finished, press <**Options**> and select **Send**.
6. Select a destination type.
7. Select one of **Phone number**, **E-mail**, or **Phone book**.
8. Enter a destination number or an e-mail address or select one from Phonebook, and press <**OK**>.
9. To add other destinations, select **Add destination** and repeat from step 6.
10. When you have finished, select **Send message**.

View messages

View a text message

When a notification appears:

Press <**View**>. The message displays.

From the Inbox:

1. In Idle mode, press <**Menu**> and select **Messages** → **Text messages** → **Inbox**.
2. Select a message.

View a multimedia message

When a notification appears:

Press <**View**>. The message displays.

From the Inbox:

1. In Idle mode, press <**Menu**> and select **Messages** → **Multimedia messages** → **Inbox**.
2. Select a message.

Enter text

ABC, T9, Number, and Symbol modes

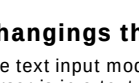
You can enter text for some features such as Messages, Phonebook, or Organizer, using AB mode, T9 mode, Number mode, and Symbol mode.

Changings the text input mode

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

Press the right soft key to change the input mode.

Example: Writing a text message



T9 : T9 mode

A : ABC mode

1 : Number mode

None: Symbol mode

Text input mode indicator

Using ABC mode

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

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

(Creating an SMS message with GSM-alphabet encoding)

Other ABC mode operations

- To enter the same letter twice or to enter a different letter on the same key, wait for the cursor to move to the right automatically or press [Right]. Then, enter the next letter.
- Press [#] to insert a space.
- Press [*] to change case. Capital lock (AB), Lower case (ab), and Initial capital (Ab) are available.
- Press the Navigation keys to move the cursor.
- Press [**C**] to delete characters one by one. Press and hold [**C**] to clear the entire display.

Using 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**], [Up], or [Down] to display alternative word choices for the keys that you have pressed.

   For example, *Of* and *Me* use [**6**] and [**3**].
4. Press [#] to insert a space and enter the next word.

Other T9 mode operations

- Press [**1**] to enter periods or apostrophes automatically.
- Press [#] to insert a space.
- Press [*] to change case. Capital lock (AB), Lower case (ab), and Initial capital (Ab) are available.
- Press [Left] or [Right] to move the cursor.
- Press [**C**] to delete characters one by one. Press and hold [**C**] to clear the entire display.

Adding a 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.

To	Press
display more symbols	[Up] or [Down].
select a symbol	the corresponding number key.
clear the 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.

   - 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.

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

Making an international call

1. In Idle mode, press and hold [**0**]. The **+** character appears.

2. Enter the country code, area code, and phone number, then press [ ].

Redialing 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. 28

You can also use the speed dial feature to assign your most frequently dialed numbers to specific number keys. ▶ p. 30

You can quickly dial a number from Phonebook using its location number assigned when stored.

To dial a number from the phone's memory:

1. In Idle mode, press and hold [**0**]. A + appears.
2. Enter the location number for the phone number you want and press [#].
3. Press [Up] or [Down] to scroll through other numbers.
4. Press <**Dial**> or [ ] to dial the number you want.

To dial a number from the SIM card:

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

Answering a call

When you receive a 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** is active, you can press any key, except for <**Reject**> and [ ]. ▶ p. 67
- When **Active folder** is active, you can simply open the phone. ▶ p. 66
- Press <**Reject**> or [ ] to reject a call.
- Press and hold [Volume] to reject a call or mute the ringer, depending on the **Side key** setting. ▶ p. 67

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

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

Options during a call

You can access a number of functions during a call.

Adjusting the volume during a call

Use [Volume] to adjust the earpiece volume during a call.

Press [Volume up] to increase the volume level and [Volume down] to decrease the volume level.

Placing a call on hold/Retrieving

Press <**Hold**> to place a call on hold, or press <**Unhold**> to retrieve the call.

Answering a second call

You can answer an incoming call while already on the phone, if your network supports this function, and you have activated the call waiting feature. ▶ p. 36

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 [ ].

Using In-call options

Press <**Options**> to access the following options during a call:

- **Menu**: access the phone's menu functions.
- **Mute**/**Unmute**: switch off the phone's microphone so that the other person on the phone cannot hear you, or switch it back on.
- **Mute keys**/**Send keys**: switch the key tones off or on.

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

- **Send DTMF**: send the DTMF (Dual tone multi-frequency) tones as a group. The DTMF tones are the tones used in phones for tone dialing, sounding when you press the number keys. This option is helpful for entering a password or an account number when you call an automated system, like a banking service.
- **Phonebook**: access the contact list.
- **End held call**: disconnect the call currently on hold.
- **Join**: set up a multi-party call by adding a caller on hold to a currently active call. You can include up to 5 people on a multi-party call.
- **Select one**: select one of the multi-party call participants. You can then use the following options:

Private: have a private conversation with the selected participant. The other participants can converse with each other. After the private conversation, select **Join** to return both private participants to the multi-party call.

Remove: disconnect the selected call participant.

Menu functions

All menu options listed

Phonebook

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 <**Ph.Book**> in Idle mode.

Search

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 <**Options**> to access the Phonebook options.

Using Phonebook options

While viewing numbers in a Phonebook entry, press <**Options**> to access the following options:

- **Photo caller ID**: assign a caller ID image to the entry.

  Select a photo: select one of the photos you have taken.

  Take photo: take a new photo.

  View: view the caller ID image set for the entry.

Delete caller ID: remove the caller ID image set for the entry.

- **Edit**: change the number or name of the entry.
- **Copy**: copy the number to the phone's memory or SIM card.
- **Paste**: paste the number into the dialing screen.
- **Delete**: delete the number from Phonebook.
- **Caller group**: assign the number to a caller group.
- **Add entry**: add a new number.

Add entry

Use this menu to add a new contact to Phonebook.

Storing a contact in the phone's memory

1. Select a number type.
   - Mobile phone number
   - Office phone number
   - Home phone number
   - E-mail address; an e-mail address can be stored only in the phone's memory.
2. Select **Phone**.
3. Enter a name and press <**OK**>.
4. Enter a number or an e-mail address and press <**Save**>.
5. Change the location number, if you want, and press <**OK**>.

Storing a contact on the SIM card

1. Select a number type.
2. Select **SIM**.

3. Enter a name and press <**OK**>.
4. Enter a number and press <**Save**>.
5. Change the location number, if you want, and press <**OK**>.

Group search

Use this menu to search for your contacts in Phonebook in caller groups.

1. Enter the first few letters of the group name.
2. Select the group you want.
3. Select the name you want in the group.
4. Scroll to a number, and press [ ] to dial the number or <**Options**> to access the Phonebook options.

Group edit

Use this menu to edit the caller groups' properties.

Select a group and change the group settings by using the following options:

- **Call ringtone**: set a ringtone for incoming calls from the group members.
- **SMS tone**: set a ringtone for incoming messages from the group members.
- **Graphic**: set a graphic icon for incoming calls from the group members.
- **Group name**: assign a name to the group.

Speed dial list

Use this menu to assign speed dial numbers (2 to 8) for 7 of your most frequently dialed numbers.

☑ The amount of memory available for speed dialing depends on the carrier's requirements.

Assigning speed dial numbers

1. Select a key location from 2 to 8. Key 1 is reserved for your voice mail server and key 9 for the emergency center; It may vary, depending on your country or service provider.
2. Select the name you want from the Phonebook list.
3. Select the number you want.

Managing speed dial entries

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

- **Change**: assign a different number to a key.
- **Delete**: delete the setting for the key.
- **Delete all**: delete the settings for all keys.
- **Number**: check the number assigned to the key.

Dialing speed dial numbers

In Idle mode, press and hold the appropriate key.

Delete all

Use this menu to delete all of the contacts from your phone's memory, your SIM card, or both.

1. Press [OK/*i*] to select the memory 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. 66

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

Memory status

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

SDN

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

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

SIM AT *(Menu 1)*

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

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

Call records *(Menu 2)*

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

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

Missed calls *(Menu 2.1)*

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

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

- **Edit**: change the number to dial or save it.
- **Delete**: delete the record.

Received calls *(Menu 2.2)*

This menu displays the most recent calls you have received.

Dialled calls *(Menu 2.3)*

This menu displays the most recent calls you have dialed.

Delete all *(Menu 2.4)*

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

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

Call time *(Menu 2.5)*

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

- **Reset timers**: reset the call timers. You need to enter the phone password.

> ☑ The password is preset to **00000000**. You can change this password. ▶ p. 66

Call costs *(Menu 2.6)*

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 authorized for your calls.
- **Price / unit**: set the price per unit that is applied when the cost of your calls is calculated.

Network services *(Menu 3)*

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

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

Call diverting *(Menu 3.1)*

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 your service area or when your phone is switched off.
- **Cancel all**: cancel all call diverting options.

2. Select the type of calls to be diverted.
3. Press <**Activate**>. To deactivate call diverting, press <**Options**> and select **Remove**.
4. Enter the number to which calls are to be diverted and press <**OK**>.
5. If you selected **No reply**, select the length of time the network delays before diverting a call.

Call barring *(Menu 3.2)*

This network service allows you to restrict your calls.

1. Select a call barring option:
   - **All outgoing**: prohibit all outgoing calls.
   - **International**: prohibit international calls.
   - **International except to 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 all 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. Press <**Activate**>. To deactivate call barring, press <**Deactivate**>.
4. Enter the call barring password supplied by your service provider and press <**OK**>.

Call waiting *(Menu 3.3)*

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 the call waiting option will apply.
2. Press <**Activate**>. To deactivate call waiting, press <**Deactivate**>.

Network selection *(Menu 3.4)*

This network service allows you to either automatically or manually select the network used when 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.

Caller ID *(Menu 3.5)*

This network service allows you to prevent your phone number from being displayed on the phone of the person being called. If you select **Default**, the phone will use the default setting provided by the network.

☑ Some networks may not allow you to change this setting.

Closed user group *(Menu 3.6)*

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**: list, add, or delete 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.

Sound settings *(Menu 4)*

The **Sound settings** menu allows you to customize various sounds on the phone.

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

Ring tone *(Menu 4.1)*

Use this menu to select a ringtone for the call ringer. You can select one of the embedded ring melodies, downloaded sounds, or melodies you have created.

Ring volume *(Menu 4.2)*

Use this menu to adjust the ringtone volume.

Alert type *(Menu 4.3)*

Use this menu to specify how you are to be informed of incoming calls.

- **Melody**: the phone plays the selected ringtone.
- **Vibration**: the phone vibrates but not rings.
- **Vibra+melody**: the phone vibrates three times and then starts ringing.

Keypad tone *(Menu 4.4)*

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

> ☑ You can adjust the key tone volume using [Volume] in Idle mode.

Message tone *(Menu 4.5)*

Use this menu to select a ringtone or alert type for incoming messages.

- **SMS tone**: specify how you are informed of a new SMS message.
- **SMS-CB tone**: specify how you are informed of a new cell broadcast (CB) message.
- **MMS tone**: specify how you are informed of a new MMS message.
- **Repetition**: specify whether or not the phone repeats alerting you to a new message.

Folder tone *(Menu 4.6)*

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

Power on / off *(Menu 4.7)*

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

Alert on call *(Menu 4.8)*

Use this menu to set the phone to beep when you receive a new message or when the time for an alarm comes during a call.

Extra tones *(Menu 4.9)*

Use this menu to customize additional tones for the phone.

- **Error tone**: set the phone to beep when you have made a mistake or something wrong happens on 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.
- **Connect tone**: set the phone to beep when an outgoing call is connected to the system.

Messages *(Menu 5)*

Use the **Messages** menu to send and receive short messages and multimedia messages. You can also access push message, voicemail, and broadcast message features.

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

Text messages *(Menu 5.1)*

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

Create *(Menu 5.1.1)*

You can create and send a text message.

1. Enter your message.

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

2. Press <**Options**> to access the following options for creating a message:
   - **Text formatting**: change the text attributes.
   - **Add content**: add a sound, melody, picture, or animated image to the message.
   - **Add templates**: retrieve a text template.
   - **Add emoticon**: add an emoticon.
   - **Add from phonebook**: add a Phonebook entry.
   - **Add from bookmarks**: add a bookmark item.
   - **Language**: change the language used in the text input mode.
3. Press <**Options**> and select **Save and send** or **Send only**.
4. If you select **Save and send**, select a memory location.
5. Enter a destination number.
6. Press <**OK**> to send the message.

Inbox *(Menu 5.1.2)*

This folder stores SMS messages you have received.

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

- **Delete**: delete the message.

- **Send**: forward the message to other people.
- **Text reply**: reply to the sender.
- **Call back**: call the sender.
- **Cut address**: extract URLs, e-mail addresses, or phone numbers from the message.
- **Move to phone**/**Move to SIM**: move the message between the SIM card and the phone's memory.
- **Select content**: save media content from the message into your phone's memory.

Outbox *(Menu 5.1.3)*

This folder stores SMS messages you have sent or have saved to send at a later time.

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

- **Delete**: delete the message.
- **Send**: send or resend the message.
- **Cut address**: extract URL addresses, e-mail addresses, or phone numbers from the message.
- **Move to phone**/**Move to SIM**: move the message between the SIM card and the phone's memory.
- **Select content**: save media content from the message into your phone's memory.

Templates *(Menu 5.1.4)*

Your phone provides you with preset sentences so that you can retrieve and insert them when composing an SMS message. Use this menu to create templates with the sentences you use frequently.

Creating a template

1. Select the template you want to change.
2. Select **Edit**.
3. Enter a new sentence and press <**OK**>.

Using template options

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

- **Edit**: edit the selected template.
- **Send**: create and send a new message.
- **Delete**: delete the selected template.

Emoticon templates *(Menu 5.1.5)*

You can access preset emoticon templates or create emoticon templates so that you can retrieve them when composing a message.

Creating a template

1. Select a category.
2. Press <**Options**> and select **Add**.
3. Enter an emoticon and press <**Save**>.

Using template options

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

- **Add**: add a new emoticon.
- **Edit**: edit the selected emoticon.
- **Send**: send a message using the emoticon.
- **Delete**: delete the emoticon.

Settings *(Menu 5.1.6)*

Use this menu to customize SMS settings.

☑ The setting options available in this menu may vary depending on your service provider.

- **Setting x** (where **x** is the setting group number): set the properties of each setting group. The setting group accessed last is activated for sending or receiving subsequent messages.

  Setting name: enter a setting group name.

Service center: store or changes the number of your SMS server.

Default destination: enter a default destination number.

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

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

- **Common settings**: The following options are available:

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

  Delivery reports: set the network to inform you when your messages have been delivered.

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

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

Multimedia messages *(Menu 5.2)*

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

Create *(Menu 5.2.1)*

You can create and send an MMS message.

1. Enter a message subject and press <**Next**>.

2. Press <**Options**> and add message contents using one of the following options:
   - **Add text**: add message text.
   - **Add photo**: add a photo taken by the camera on the phone.
   - **Add picture**: add a downloaded picture.
   - **Add sound**: add a voice memo or downloaded sound.
3. To change the added items, highlight one and press <**Options**> to access the following options for changing the message or message settings:
   - **Edit text**/**Edit picture**/**Edit sound**: edit the text, or replace the added photo, picture, or sound.
   - **Add page**: add pages. Move to each page by pressing [Left] or [Right].
   - **Delete**: remove an added item.
   - **Duration**: set how long one page displays. After the specified time, the display automatically scrolls to the next page.
   - **Settings**: change the message settings. ▶ p. 47
   - **Preview**: view the message you created.
4. When you have finished, press <**Options**> and select **Send** from the options.
5. Select a destination type: To, Cc, or Bcc.
6. Select one of **Phone number**, **E-mail**, or **Phone book**.
7. Enter a destination number or an e-mail address, or select a number from Phonebook and press <**OK**>.
8. To add more destinations, select **Add destination** and repeat from step 6.

9. To enter additional numbers or addresses to other destination types, press < > and repeat from step 5.
10. When you have finished, select **Send message**.

Inbox *(Menu 5.2.2)*

This folder stores MMS messages that you have received. The following icons tell you the message status:

- notification that you have read
- notification that you have not read
- you are retrieving from the server
- the server is processing your request
- the server has failed to send
- you have read
- you have not read

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

Notifications

- **Retrieve**: retrieve the message from the MMS server.
- **Delete**: delete the message.
- **More properties**: access the message's detailed properties.

Retrieved messages

- **Delete**: delete the message.
- **Reply**: reply to the sender.
- **Callback**: call the sender.
- **Cut address**: extract URLs, e-mail addresses, or phone numbers from the message.
- **Forward**: forward the message to other people.
- **Save picture**: save an image from the message into the **Images** folder.

- **Save sound**: save a sound from the message into the **Sounds** folder.
- **Properties**: access the message properties.

Outbox *(Menu 5.2.3)*

This folder stores MMS messages that you have sent or the phone is attempting to send. The following icons tell you the message status:

- currently being sent
- sent
- not sent
- to be sent
- deferred

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

- **Delete**: delete the message.
- **Cut address**: extract URLs, e-mail addresses, or phone numbers from the message.
- **Send**: send the message.
- **Edit**: edit the message.
- **Properties**: access the message properties.

Draft *(Menu 5.2.4)*

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

You can view a message and use the options the same as in the Outbox.

Templates *(Menu 5.2.5)*

This folder stores messages you have saved as templates while composing so that you can use them for creating new messages.

While viewing a template, press <**OK**> to access the following options:

- **Edit**: send the message using the template.
- **Delete**: delete the template.

Settings *(Menu 5.2.6)*

You can customize the settings for sending and receiving MMS messages.

- **Delivery report**: set the network to inform you when your messages have been delivered.
- **Read reply**: send a read-reply request along with your messages.
- **Auto download**: set whether or not your phone retrieves new incoming messages from the MMS server without notifications.
- **Message acceptance**: select the category of messages you want to receive.
- **Hide ID**: set your address to be hidden from the recipient's phone.
- **Validity period**: set the length of time your messages are stored in the MMS server.
- **Delivery time**: set the time delay before messages are sent.
- **Priority**: set the priority level of messages.
- **Report allowed**: set the network to inform the senders when messages are delivered to you.
- **Page duration**: set how long one page in your outgoing messages displays. After a specified time, the display automatically scrolls to the next page.

MMS profile *(Menu 5.2.7)*

You can configure required network settings for MMS. The profile accessed last is automatically activated for sending or receiving subsequent messages.

> ☑ Check with your service provider before you change any MMS settings on your phone.

For each profile, set the following options:

- **Profile name**: assign a name to the profile.
- **Connection URL**: enter the address of your MMS server.

- **Security**: select a security mode for data transmission.
- **IP address**: enter the IP address of the proxy server.
- **User name**: enter the user ID.
- **Password**: enter the password.
- **APN**: enter the access point name used for the address of the MMS server.

Push messages *(Menu 5.3)*

Use this menu to access messages from wireless web servers.

- **Inbox**: access push messages you have received.
- **Receive**: determine whether or not your phone receives push messages.
- **Delete all**: delete all push messages.

Delete all *(Menu 5.4)*

Use this menu to delete all of the messages in each message folder.

1. Select a message type.
2. Press [OK/*i*] to select the message folders to be cleared.
3. Press <**Delete**>.
4. Press <**Yes**> twice to confirm the deletion.

Voice mail *(Menu 5.5)*

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

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

- **Connect to voice server**: connect to the voicemail server to listen to your messages.

- **Voice server number**: change the voicemail server number.

Broadcast messages *(Menu 5.6)*

Your phone receives broadcast messages, which are text messages related to various topics, such as weather forecast, traffic, and news report, from networks. Use this menu to access received broadcast messages.

- **Read**: open received broadcast messages.

  The **Volatile** box saves messages until the phone is switched off.

  The **Archive** box saves messages indefinitely. Press <**Options**> and select **Save** when a text notification appears or while viewing a broadcast message in the **Volatile** box. The message is saved in the **Archive** box.
- **Receive**: enable or disable the reception of broadcast messages.
- **Channel list**: indicates the channels from which you receive broadcast messages. Please contact your service provider for further details.
- **Language**: select the preferred languages in which broadcast messages display.

Memory status *(Menu 5.7)*

Use this menu to check the number of SMS messages or the amount of memory currently in use for storing MMS messages.

Funbox *(Menu 6)*

The **Funbox** menu allows you to use the web browser, play Java games, and access images and sounds stored in the phone's memory.

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

WAP browser *(Menu 6.1)*

The Wireless Application Protocol (WAP) browser on your phone allows you to access the wireless web. From the wireless web, you can access up-to-date information and a wide variety of media content, such as games, wallpapers, and ringtones.

Home *(Menu 6.1.1)*

Use this menu to connect your phone to the network and load the homepage of the wireless web service provider. You can also press [OK/i] in Idle mode.

Navigating the web browser

To	Press
scroll through browser items	[Up] or [Down].
select a browser item	[OK/i].
return to the previous page	[C].
access bookmarks	[#]

Using page options

From any web page, press and hold [*] to access the following browser options:

- **Reload**: reload the current page.
- **Home**: go back to the homepage.
- **Go to URL**: enter a URL address manually.
- **Show URL**: view the URL address of the current web page.
- **Edit home**: edit the URL address and title of the homepage.

- **Clear cache**: delete information stored in the cache. A cache is a temporary memory that stores recently accessed web pages.
- **Inbox**: read messages received from a web server.

Exiting the web browser

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

Bookmarks *(Menu 6.1.2)*

Use this menu to save URL addresses in order to quickly access web pages.

Adding a bookmark

1. Select an empty location.
2. Enter a URL address and press <**Enter**>.
3. Enter a title for the bookmark and press <**Enter**>.

Using bookmark options

After saving an item, press <**Options**> to access the following options:

- **Go to URL**: access the bookmarked web page.
- **Edit**: edit the URL address and title of the bookmark.
- **Delete**: delete the bookmark.

http:// *(Menu 6.1.3)*

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

WAP profiles *(Menu 6.1.4)*

Use this menu to set up connection profiles to be used for accessing the wireless web. You can also create or edit a profile.

For each server, set the following options:

- **Profile name**: enter a profile name.

- **Homepage URL**: enter the URL address of the page to be used as your homepage.
- **Security**: select a security mode.
- **Bearer**: select a network bearer type; **GPRS** or **Data**. The remaining options depend on the bearer setting.

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

- **IP address**: enter the IP address of the proxy server.
- **User name**: enter the user ID.
- **Password**: enter the password.
- **APN**: enter the access point name.

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

- **IP address**: enter the IP address of the proxy server.
- **Login name**: enter the login ID.
- **Password**: enter the login password.
- **Dial-up number**: enter the PPP phone number.
- **Data call type**: select a call type for data transmission.

Clear cache *(Menu 6.1.5)*

Use this menu to clear the cache, which is the temporary memory that stores the web pages you have recently accessed.

Games *(Menu 6.2)*

Use this menu to access and play Java games and to change the network settings for accessing Java services.

Playing a game

Select a game from the game list and follow the onscreen instructions. The procedure may differ from game to game.

Viewing game information

Scroll to the game you want and press <**Info**>.

Changing DNS settings

You may need to change the DNS setting of the Java server at your service provider's instructions.

1. Select **Setting** on the game list.
2. Enter the primary address and press <**OK**>.
3. Enter the secondary address and press <**OK**>.

Sounds *(Menu 6.3)*

Use this menu to access sounds downloaded from the wireless web or received in messages.

While reviewing a sound, press <**Options**> to access the following options:

- **Rename**: change the file name.
- **Delete**: delete the file.
- **Set as ringtone**: set the sound as your ringtone.

Images *(Menu 6.4)*

Use this menu to access images downloaded from the wireless web or received in messages.

While reviewing an image, press <**Options**> to access the following options:

- **Rename**: change the file name.
- **Delete**: delete the file.
- **Set as wallpaper**: set the image as wallpaper for the idle screen.

Delete all *(Menu 6.5)*

Use this menu to delete all of the downloaded items in the **Games**, **Sounds**, and **Images** folders.

1. Press [OK/*i*] to select the folders to be cleared.
2. Press <**Delete**>.
3. Press <**Yes**> twice to confirm the deletion.

Memory status *(Menu 6.6)*

Use this menu to check the amount of memory currently in use in each media folder.

Organizer *(Menu 7)*

The **Organizer** menu enables you to keep track of your schedule and tasks. You can also set the time and date and use convenient features, such as alarm timer, voice recorder, calculator, and currency converter.

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

Alarm *(Menu 7.1)*

Use this menu to set alarms to sound at a specific time.

Setting an alarm

1. Select the type of alarm.
2. Enter the time for the alarm to sound.
   To change the alarm melody, press <**Options**> and select **Alarm sound set**.
3. Select **AM** or **PM** in 12-hour time format.
4. If you selected **Morning call** in step 1, choose **Monday to friday** or **Monday to saturday**.
5. Press [OK/*i*] to save the alarm.

Stopping an alarm

When the alarm sounds, press any key.

Deactivating an alarm

When you do not need an alarm any longer, you can deactivate it.

- To deactivate an alarm, access it, press <**Options**>, and select **Remove alarm**.

- To deactivate all alarms, select **Remove alarm** from the **Alarm** menu.

Setting alarms to sound when the phone is off

From the Alarm screen, select **Autopower** → **Enable**.

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

Calendar *(Menu 7.2)*

Use this menu to write memos on your schedule or set alarms to act as a reminder.

When you select the **Calendar** menu, the calendar in Month view appears with today's date highlighted.

Selecting a day

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

Using calendar options

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

- **Search all**: view all of the memos you have created.
- **Delete all**: delete all memos.
- **Go to date**: go to a specific date.
- **Exit**: exit the **Calendar** menu.

Entering a new memo

1. Select a date on the calendar.
2. Enter your memo and press <**OK**>.
3. Press [OK/*i*] to set an alarm to sound on the chosen day. Otherwise, press <**Skip**>.

4. Enter the time for the alarm and press [OK/i].
   You can select an alarm melody by pressing <**Melody**>.
5. Select **AM** or **PM** in 12-hour time format.
   The color of the date on the calendar changes to green to indicate that a memo exists for that date.

Viewing a memo

1. Select a date on the calendar. If more than one memo exists, they will display in order of their alarm times.
2. Press [Up] or [Down] to scroll through the memos stored for that day.

Using memo options

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

- **New**: add a new memo.
- **Edit**: edit the memo.
- **Alarm**: set an alarm for the memo.
- **Delete**: delete the memo.
- **Copy to**: copy the memo to another date.
- **Move to**: change the date of the memo.

Time & date *(Menu 7.3)*

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

- **Set time**: enter the current time.
- **Set date**: enter the current date.
- **World time**: set your local time zone and find out the current time in another part of the world.

> ☑ To apply daylight saving time to a time zone, press <**Options**> and select **Set daylight saving time**.

- **Time format**: select a time format.
- **Date format**: select a date format.

Calculator *(Menu 7.4)*

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 [OK/i] to view the result.
5. If necessary, repeat from step 2 to continue the calculation.

To do list *(Menu 7.5)*

Use this menu to create tasks and manage them.

Creating a task

1. Press <**New**>.
2. Enter the first task and press <**OK**>.
3. Select a priority level.
4. Enter the deadline for the task and press [OK/i]. Otherwise, press <**Skip**>.

Viewing a task

When you select the **To do list** menu, the tasks display with a check mark, if the task has been done, and a priority level indicator; for High, for Normal, and for Low.

To change the status of a specific task, press [*].

Using task options

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

- **New**: add a new task.
- **Mark**: change the status of the task.
- **Edit**: edit the task.
- **Sort**: sort the To do list by tasks' priority or status.
- **Copy**: copy the task.
- **Copy to calendar**: copy the task to the calendar as a memo.
- **Delete**: delete the task.
- **Delete all**: delete all tasks.
- **Exit**: exit the **To do list** menu.

Voice memo *(Menu 7.6)*

Use this menu to record and play voice memos.

Record voice *(Menu 7.6.1)*

You can record a voice memo of up to 30 seconds.

1. Press <**Record**> to start recording.
2. Speak into the microphone.
3. When you have finished, press <**Stop**>. The following options display:
   - **Replay**: play back the memo.
   - **Re-record**: discard the memo and record another one.
   - **Save**: save the memo.
   - **Quit**: cancel your recording and exit the **Record voice** menu.
4. Select **Save** to save the voice memo.
5. Enter a name of the voice memo and press <**OK**>.

Voice list *(Menu 7.6.2)*

Use this menu to access voice memos you have recorded.

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

- **Play**: play the selected voice memo.
- **Send**: send the voice memo as part of an MMS message.
- **Rename**: change the file name.
- **Properties**: access the file properties.
- **Delete**: delete the file.

Delete all *(Menu 7.6.3)*

Use this menu to delete all of the voice memos you have recorded at one time.

Memory status *(Menu 7.6.4)*

You can check the amount of memory currently in use for storing voice memos, and the number of voice memos.

Currency exchange *(Menu 7.7)*

Use this menu to do currency conversions.

1. Enter the rate of foreign currency and press <**OK**>.

   Press [#] to insert a decimal point.
2. Enter the amount of the source currency you want to convert and press <**OK**>.

   The amount you entered and its equivalent value in the foreign currency display.

Camera *(Menu 8)*

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

To access this menu, press <**Menu**> in Idle mode and select **Camera**, or press [📷].

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

Take photos *(Menu 8.1)*

Use this menu to take a photo. The camera produces JPEG photos.

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

Taking a photo

1. Access the **Take photos** menu or press and hold [Up] to turn on the camera.
2. Make any desired adjustments.
   - Press < > to use the camera options. ▶ p. 60
   - Use the keypad to change the camera settings. ▶ p. 61
3. Press [OK/i] to take a photo.
4. Press <**Save**>. The photo is saved in the **My photos** folder.
5.

To	Press
use photo options	<**Options**>. ▶ p. 62
return to Capture mode	< > or [**C**].

Using camera options in Capture mode

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

- **Effects**: change the color tone or apply a special effect to the photo.
- **Frames**: apply a decorative frame.

- **Mode**: take a photo in the following modes:

  Normal shot: take a photo in Normal mode.

  Multi shot: take a series of action stills. You can select the shooting speed and the number of photos the camera will take.

  Mosaic shot: take several stills and save them in one frame. You can select the layout and the shutter mode.
- **Rotation**: view the mirror image, flip the image vertically, or do both at the same time.
- **Self timer**: set a time delay before the camera takes a photo.
- **Settings**: change the default settings for taking a photo.

  Photo size: select an image size.

  Photo quality: select an image quality setting.
- **Help**: access the functions of the keys you can use in Capture mode.

Using the keypad in Capture mode

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

Keys	Function
Left/Right	Adjusts the brightness of the image.
Up/Down	Zooms in or out.
Volume up	Flips the image vertically.
Volume down	Shows the mirror image.
2	Changes the image size.
3	Changes the image quality.
4	Changes the shooting mode.

Keys	Function
5	Changes the color tone or applies a special effect.
6	Reduces the distortion on the image to maximize detail and sharpness.
7	Selects a decorative frame.
8	Sets the timer.
9	Goes to the **My photos** folder.
*	Changes the preview screen.

Using photo options

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

- **Send**: send the photo via MMS.
- **Rename**: change the file name.
- **Set as wallpaper**: set the photo as wallpaper for the idle screen.
- **Set as caller ID**: set the photo as a caller ID image for a Phonebook entry.
- **Protection**: lock the file to protect it from being deleted, or unlock the file.
- **Delete**: delete the file.
- **Properties**: access the file properties.

My photos *(Menu 8.2)*

Use this menu to access photos you have taken.

Viewing photos

1. Select the thumbnail of the photo you want.
2. Press the Navigation keys to scroll through photos.

Using photos options

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

- **Send**: send the photo via MMS.
- **Rename**: change the file name.
- **Set as wallpaper**: set the photo as wallpaper for the idle screen.
- **Set as caller ID**: set the photo as a caller ID image for a Phonebook entry.
- **Protection**: lock the file to protect it from being deleted, or unlock the file.
- **Delete**: delete the file.
- **Delete all**: delete all files.
- **Properties**: access the file properties.

Memory status *(Menu 8.3)*

Use this menu to check the amount of memory currently in use in the camera.

Phone settings *(Menu 9)*

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

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

Display settings *(Menu 9.1)*

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

Wallpaper *(Menu 9.1.1)*

You can change the background image and the settings for text to be displayed in Idle mode.

- **Wallpaper list**: select a background image.
- **Text display**: determine whether or not the phone displays text.
- **Text color**: select a font color.

Back light *(Menu 9.1.2)*

You can select the length of time the backlight or display stays on.

- **Back light On**: select the length of time the backlight stays on.
- **Back light Dim**: select the length of time the display stays on in Dim mode after the backlight turns off. After a specified time, the display turns off.

LCD Brightness *(Menu 9.1.3)*

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

LCD Contrast *(Menu 9.1.4)*

You can adjust the contrast of the display color. Adjust this setting with the display brightness to see the display clearly in different lighting condition.

Graphic logo *(Menu 9.1.5)*

You can set the phone to display a graphic icon instead of the service provider's logo on the idle screen. This is only available if a graphic icon has been received in a message.

Dialing font color *(Menu 9.1.6)*

Use this menu to select a font color for the numbers entered while dialing.

Greeting message *(Menu 9.2)*

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

Own number *(Menu 9.3)*

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.

Language *(Menu 9.4)*

Use this menu to select a language for the display text. If you select **Automatic**, the phone uses the same language as the SIM card.

Security *(Menu 9.5)*

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

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

PIN check *(Menu 9.5.1)*

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

Change PIN *(Menu 9.5.2)*

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

Phone lock *(Menu 9.5.3)*

Use this menu to lock the phone from unauthorized 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 9.5.4)*

Use this menu to change your phone password.

Privacy *(Menu 9.5.5)*

Use this menu to lock your media contents, including MMS messages, photos, video memos, images, and sounds.

1. Press [OK/i] to select the items to be locked.
2. Press <**OK**> to lock the marked items.
3. Enter the phone password and press <**OK**>.

To access a locked item, you need to enter the phone password.

SIM lock *(Menu 9.5.6)*

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

FDN mode *(Menu 9.5.7)*

If supported by your SIM card, Fixed Dialing 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 9.5.8)*

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

Extra settings *(Menu 9.6)*

You can turn the automatic redialing or answering features on or off.

- **Auto redial**: make up to ten attempts to redial a phone number after an unsuccessful call.
- **Active folder**: answer an incoming call simply by opening the phone.

- **Anykey answer**: answer an incoming call by pressing any key, except [ ] and <**Reject**>.

Side key *(Menu 9.7)*

Use this menu to set whether the phone mutes the call ringer or rejects a call if you press and hold [Volume] when a call comes in.

Short cut *(Menu 9.8)*

You can use the Navigation keys as shortcut keys to access specific menus directly from Idle mode. Use this menu to change the shortcut assignments for [Down], [Left], or [Right].

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

Reset settings *(Menu 9.9)*

Use this menu to reset the phone to its default settings.

Enter the 4- to 8-digit phone password and press <**OK**>.

☑ The password is preset to **00000000**. You can change this password. ▶ p. 66

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.

"Phone locked Enter password"

- The automatic locking function has been enabled. You must enter the phone's password before you can use the phone.

"Enter PIN"

- You are using your phone for the first time. You must enter the 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, and the SIM card 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 dialed

- 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 off 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 dialed when you re-call a Phonebook entry

- Use the **Search** 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

Your wireless phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission (FCC) of the U.S. Government. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on the safety standards that were developed by independent scientific organizations through periodic and through evaluation of scientific studies.

The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health.

The exposure standard for wireless phones employs a unit of measurement known as Specific Absorption Rate (SAR). The SAR limit set by the FCC is 1.6mW/1g*.

SAR tests are conducted using standard operating positions specified by the FCC with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output of the phone. Before a new model phone is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government-adopted requirement for safe exposure. The tests are performed in positions and locations (e.g., at the ear and worn on the body) as required by the FCC for each model. While there may be differences between the SAR levels of various phones and at various positions, they all meet the government requirement.

The FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this model phone is on file with the FCC and can be found under the Display Grant section of http://www.fcc.gov/oet/fccid after searching on FCC ID printed in the label on the phone.

For body operation

For body worn operation, this model phone has been tested and meets the FCC RF exposure guidelines when used with a Samsung-supplied or approved accessory designated for this product or when used with and accessory that contains no metal and that positions the handset a minimum from the body.

The minimum distance for this model phone is written in the FCC certification information from the body. None compliance with the above conditions may violate FCC RF exposure guidelines.

* In the U.S. and Canada, the SAR limit for mobile phones used by the public is 1.6 watts/kg (W/kg) averaged over one gram of tissue. The standard incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in measurements.

For more Information concerning exposure to radio frequency signals, see the following websites:

Federal Communications Commission (FCC)
http://www.fcc.gov/rfsafety

Cellular Telecommunications Industry Association (CTIA):
http://www.wow-com.com

U.S.Food and Drug Administration (FDA)
http://www.fda.gov/cdrh/consumer

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

Precautions when using batteries

- Never use any charger or battery that is damaged in any way.
- Use the battery only for its intended purpose.
- If you use the phone near the network's base station, it uses less power; talk and standby time are greatly affected by the signal strength on the cellular network and the parameters set by the network operator.
- Battery charging time depends on the remaining battery charge and the type of battery and charger used. The battery can be charged and discharged hundreds of times, but it will gradually wear out. When the operation time (talk time and standby time) is noticeably shorter than normal, it is time to buy a new battery.
- If left unused, a fully charged battery will discharge itself over time.
- Use only Samsung-approved batteries and recharge your battery only with Samsung-approved chargers. When a charger is not in use, disconnect it from the power source. Do not leave the battery connected to a charger for more than a week, since overcharging may shorten its life.
- Extreme temperatures will affect the charging capacity of your battery: it may require cooling or warming first.

- Do not leave the battery in hot or cold places, such as in a car in summer or winter conditions, as you will reduce the capacity and lifetime of the battery. Always try to keep the battery at room temperature. A phone with a hot or cold battery may temporarily not work, even when the battery is fully charged. Li-ion batteries are particularly affected by temperatures below 0° C (32° F).
- Do not short-circuit the battery. Accidental short-circuiting can occur when a metallic object (coin, clip or pen) causes a direct connection between the + and -. terminals of the battery (metal strips on the battery), for example when you carry a spare battery in a pocket or bag. Short-circuiting the terminals may damage the battery or the object causing the short-circuiting.
- Dispose of used batteries in accordance with local regulations. Always recycle. Do not dispose of batteries in a fire.

Road safety

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

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

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

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

Operating environment

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

When connecting the phone or any accessory to another device, read its user's guide for detailed safety instructions. Do not connect incompatible products.

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

Electronic devices

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

Pacemakers

Pacemaker manufacturers recommend that a minimum distance of 15 cm (6 inches) be maintained between a wireless phone and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research and recommendations of Wireless Technology Research.

Persons with pacemakers:

- Should always keep the phone more than 15 cm (6 inches) from their pacemaker when the phone is switched on
- Should not carry the phone in a breast pocket
- Should use the ear opposite the pacemaker to minimize potential interference

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

Hearing aids

Some digital wireless phones may interfere with some hearing aids. In the event of such interference, you may wish to consult your hearing aid manufacturer to discuss alternatives. Other Medical Devices If you use any other personal medical devices, consult the manufacturer of your device to determine if it is adequately shielded from external RF energy. Your physician may be able to assist you in obtaining this information. Switch off your phone in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.

Vehicles

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles. Check with the manufacturer or its

representative regarding your vehicle. You should also consult the manufacturer of any equipment that has been added to your vehicle.

Posted facilities

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

Potentially explosive environments

Switch off your phone when in any area with a potentially explosive atmosphere and obey all signs and instructions. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death. Users are advised to switch off the phone while at a refueling point (service station).

Users are reminded of the need to observe restrictions on the use of radio equipment in fuel depots (fuel storage and distribution areas), chemical plants or where blasting operations are in progress.

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

Emergency calls

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

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

To make an emergency call:

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

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

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

FCC Notice and Cautions

FCC Notice

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

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to

provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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

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

Cautions

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

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

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

Other important safety information

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

Care and maintenance

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

- Keep your phone and all its parts and accessories out of the reach of small children and pets. They may accidentally damage these things or choke on small parts.
- Keep the phone dry. Precipitation, humidity, and liquids contain minerals that will corrode electronic circuits.
- Do not use the phone with a wet hand. Doing so may cause an electric shock to you or damage to the phone.

- Do not use or store the phone in dusty, dirty areas, as its moving parts may be damaged.
- Do not store the phone in hot areas. High temperatures can shorten the life of electronic devices, damage batteries, and warp or melt certain plastics.
- Do not store the phone in cold areas. When the phone warms up to its normal operating temperature, moisture can form inside the phone, which may damage the phone's electronic circuit boards.
- Do not drop, knock, or shake the phone. Rough handling can break internal circuit boards.
- Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the phone. Wipe it with a soft cloth slightly dampened in a mild soap-and-water solution.
- Do not paint the phone. Paint can clog the device's moving parts and prevent proper operation.
- Do not put the phone in or on heating devices, such as a microwave oven, a stove, or a radiator. The phone may explode when overheated.
- When the phone or battery gets wet, the label indicating water damage inside the phone changes colour. In this case, phone repairs are no longer guaranteed by the manufacturer's warranty, even if the warranty for your phone has not expired.
- If your phone has a flash or light, do not use it too close to the eyes of people or animals. This may cause damage to their eyes.
- Use only the supplied or an approved replacement antenna. Unauthorized antennas or modified accessories may damage the phone and violate regulations governing radio devices.
- If the phone, battery, charger, or any accessory is not working properly, take it to your nearest qualified service facility. The personnel there will assist you, and if necessary, arrange for service.

Acknowledging special precautions and the FCC and Industry Canada Notice

Cautions

Modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC compliance information

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Information to user

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help.

Appendix A: CERTIFICATION INFORMATION (SAR)

THIS MODEL PHONE MEETS THE GOVERNMENT'S REQUIREMENTS FOR EXPOSURE TO RADIO WAVES.

Your wireless phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on safety standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health.

The exposure standard for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate (SAR). The SAR limit set by the FCC is 1.6 W/kg. SAR Tests are conducted using standard operating positions accepted by the FCC with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

Before a new model phone is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government adopted requirement for safe exposure. The tests are performed in positions and locations(e.g., at the ear and worn on the body) as required by the FCC for each model.

The highest SAR value for this model phone as reported to the FCC are

- GSM 1900 Head:0.741 W/Kg, Body-worn:0.339 W/Kg.

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

The FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this model phone is on file with the FCC and can be found under the Display Grant section of http://www.fcc.gov/oet/fccid after searching on FCC ID A3LSGHC400.

Appendix B: Guide to safe and responsible wireless phone use

Cellular Telecommunications & Internet Association

"Safety is the most important call you will ever make."

A guide to safe and responsible wireless phone use

TENS OF MILLIONS OF PEOPLE IN THE U.S. TODAY TAKE ADVANTAGE OF THE UNIQUE COMBINATION OF CONVENIENCE, SAFETY AND VALUE DELIVERED BY THE WIRELESS TELEPHONE. QUITE SIMPLY, THE WIRELESS PHONE GIVES PEOPLE THE POWERFUL ABILITY TO COMMUNICATE BY VOICE-ALMOST ANYWHERE, ANYTIME-WITH THE BOSS, WITH A CLIENT, WITH THE KIDS, WITH EMERGENCY PERSONNEL OR EVEN WITH THE POLICE. EACH YEAR, AMERICANS MAKE BILLIONS OF CALLS FROM THEIR WIRELESS PHONES, AND THE NUMBERS ARE RAPIDLY GROWING.

But an important responsibility accompanies those benefits, one that every wireless phone user must uphold. When driving a car, driving is your first

responsibility. A wireless phone can be an invaluable tool, but good judgment must be exercised at all times while driving a motor vehicle whether on the phone or not.

The basic lessons are ones we all learned as teenagers. Driving requires alertness, caution and courtesy. It requires a heavy dose of basic common sense-keep your head up, keep your eyes on the road, check your mirrors frequently and watch out for other drivers. It requires obeying all traffic signs and signals and staying within the speed limit. It means using seat belts and requiring other passengers to do the same.

But with wireless phone use, driving safely means a little more. This brochure is a call to wireless phone users everywhere to make safety their first priority when behind the wheel of a car. Wireless telecommunications is keeping us in touch, simplifying our lives, protecting us in emergencies and providing opportunities to help others in need. When it comes to the use of wireless phones, safety is your most important call.

Wireless phone “safety tips”

Below are safety tips to follow while driving and using a wireless phone which should be easy to remember:

1. Get to know your wireless phone and its features such as speed dial and redial. Carefully read your instruction manual and learn to take advantage of valuable features most phones offer, including automatic redial and memory. Also, work to memorize the phone keypad so you can use the speed dial function without taking your attention off the road.
2. When available, use a hands free device. A number of hands free wireless phone accessories are readily available today. Whether you choose an installed mounted device for your wireless phone or a speaker phone accessory, take advantage of these devices if available to you.
3. Position your wireless phone within easy reach. Make sure you place your wireless phone within easy reach and where you can grab it without removing your eyes from the road. If you get an incoming call at an inconvenient time, if possible, let your voicemail answer it for you.

4. Suspend conversations during hazardous driving conditions or situations. Let the person you are speaking with know you are driving; if necessary, suspend the call in heavy traffic or hazardous weather conditions. Rain, sleet, snow and ice can be hazardous, but so is heavy traffic. As a driver, your first responsibility is to pay attention to the road.
5. Do not take notes or look up phone numbers while driving. If you are reading an address book or business card, or writing a “to do” list while driving a car, you are not watching where you are going. It’s common sense. Don’t get caught in a dangerous situation because you are reading or writing and not paying attention to the road or nearby vehicles.
6. Dial sensibly and assess the traffic; if possible, place calls when you are not moving or before pulling into traffic. Try to plan your calls before you begin your trip or attempt to coincide your calls with times you may be stopped at a stop sign, red light or otherwise stationary. But if you need to dial while driving, follow this simple tip-dial only a few numbers, check the road and your mirrors, then continue.
7. Do not engage in stressful or emotional conversations that may be distracting. Stressful or emotional conversations and driving do not mix-they are distracting and even dangerous when you are behind the wheel of a car. Make people you are talking with aware you are driving and if necessary, suspend conversations which have the potential to divert your attention from the road.
8. Use your wireless phone to call for help. Your wireless phone is one of the greatest tools you can own to protect yourself and your family in dangerous situations-with your phone at your side, help is only three numbers away. Dial 9-1-1 or other local emergency number in the case of fire, traffic accident, road hazard or medical emergency. Remember, it is a free call on your wireless phone!

9. Use your wireless phone to help others in emergencies. Your wireless phone provides you a perfect opportunity to be a “Good Samaritan” in your community. If you see an auto accident, crime in progress or other serious emergency where lives are in danger, call 9-1-1 or other local emergency number, as you would want others to do for you.
10. Call roadside assistance or a special wireless non emergency assistance number when necessary. Certain situations you encounter while driving may require attention, but are not urgent enough to merit a call for emergency services. But you still can use your wireless phone to lend a hand. If you see a broken-down vehicle posing no serious hazard, a broken traffic signal, a minor traffic accident where no one appears injured or a vehicle you know to be stolen, call roadside assistance or other special non-emergency wireless number.

Careless, distracted individuals and people driving irresponsibly represent a hazard to everyone on the road. Since 1984, the Cellular Telecommunications Industry Association and the wireless industry have conducted educational outreach to inform wireless phone users of their responsibilities as safe drivers and good citizens. As we approach a new century, more and more of us will take advantage of the benefits of wireless telephones. And, as we take to the roads, we all have a responsibility to drive safely.

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

Cellular Telecommunications & Internet Association
For more information, please call 1-888-901-SAFE.
For updates: http://www.ctia.org

Appendix C: Consumer update on wireless phones

U.S. Food and Drug Administration

1. What kinds of phones are the subject of this update?

The term wireless phone refers here to hand-held wireless phones with built-in antennas, often called cell, mobile, or PCS phones. These types of wireless phones can expose the user to measurable radio frequency energy (RF) because of the short distance between the phone and the user s head. These RF exposures are limited by Federal Communications Commission safety guidelines that were developed with the advice of FDA and other federal health and safety agencies. When the phone is located at greater distances from the user, the exposure to RF is drastically lower because a person's RF exposure decreases rapidly with increasing distance from the source. The so-called "cordless phones," which have a base unit connected to the telephone wiring in a house, typically operate at far lower power levels, and thus produce RF exposures well within the FCC's compliance limits.

2. Do wireless phones pose a health hazard?

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

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

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

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

- Support needed research into possible biological effects of RF of the type emitted by wireless phones;
- Design wireless phones in a way that minimizes any RF exposure to the user that is not necessary for device function; and
- Cooperate in providing users of wireless phones with the best possible information on possible effects of wireless phone use on human health

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

- National Institute for Occupational Safety and Health
- Environmental Protection Agency Federal Communications Commission
- Occupational Safety and Health Administration
- National Telecommunications and Information Administration
- The National Institutes of Health participates in some interagency working group activities, as well.

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

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

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

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

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

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

FDA and the Cellular Telecommunications & Internet Association (CTIA) have a formal Cooperative Research and Development Agreement (CRADA) to do research on wireless phone safety. FDA provides the scientific oversight, obtaining input from experts in government, industry, and academic organizations. CTIA-funded research is conducted through contracts to independent investigators. The initial research will include both laboratory studies and studies of wireless phone users. The CRADA will also include a broad assessment of additional research needs in the context of the latest research developments around the world.

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

If there is a risk from these products—and at this point we do not know that there is—it is probably very

small. But if you are concerned about avoiding even potential risks, you can take a few simple steps to minimize your exposure to radio frequency energy (RF). Since time is a key factor in how much exposure a person receives, reducing the amount of time spent using a wireless phone will reduce RF exposure.

If you must conduct extended conversations by wireless phone every day, you could place more distance between your body and the source of the RF, since the exposure level drops off dramatically with distance. For example, you could use a headset and carry the wireless phone away from your body or use a wireless phone connected to a remote antenna

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

6. What about children using wireless phones?

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

Some groups sponsored by other national governments have advised that children be discouraged from using wireless phones at all. For example, the government in the United Kingdom distributed leaflets containing such a recommendation in December 2000. They noted that no evidence exists that using a wireless phone causes brain tumors or other ill effects. Their recommendation to limit wireless phone use by children was strictly precautionary; it was not based on scientific evidence that any health hazard exists.

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

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

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

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

9. What about wireless phone interference with medical equipment?

Radio frequency energy (RF) from wireless phones can interact with some electronic devices. For this reason, FDA helped develop a detailed test method to measure electromagnetic interference (EMI) of implanted cardiac pacemakers and defibrillators from wireless

telephones. This test method is now part of a standard sponsored by the Association for the Advancement of Medical instrumentation (AAMI). The final draft, a joint effort by FDA, medical device manufacturers, and many other groups, was completed in late 2000. This standard will allow manufacturers to ensure that cardiac pacemakers and defibrillators are safe from wireless phone EMI.

FDA has tested hearing aids for interference from handheld wireless phones and helped develop a voluntary standard sponsored by the Institute of Electrical and Electronic Engineers (IEEE). This standard specifies test methods and performance requirements for hearing aids and wireless phones so that no interference occurs when a person uses a compatible phone and a compatible hearing aid at the same time. This standard was approved by the IEEE in 2000.

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

10. What are the results of the research done already?

The research done thus far has produced conflicting results, and many studies have suffered from flaws in their research methods. Animal experiments investigating the effects of radio frequency energy (RF) exposures characteristic of wireless phones have yielded conflicting results that often cannot be repeated in other laboratories. A few animal studies, however, have suggested that low levels of RF could accelerate the development of cancer in laboratory animals. However, many of the studies that showed increased tumor development used animals that had been genetically engineered or treated with cancer causing chemicals so as to be pre-disposed to develop cancer in the absence of RF exposure. Other studies exposed the animals to RF for up to 22 hours per day. These conditions are not similar to the conditions

under which people use wireless phones, so we don t know with certainty what the results of such studies mean for human health.

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

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

A combination of laboratory studies and epidemiological studies of people actually using wireless phones would provide some of the data that are needed. Lifetime animal exposure studies could be completed in a few years. However, very large numbers of animals would be needed to provide reliable proof of a cancer promoting effect if one exists. Epidemiological studies can provide data that is directly applicable to human populations, but 10 or more years follow-up may be needed to provide answers about some health effects, such as cancer. This is because the interval between the time of exposure to a cancer-causing agent and the time tumors develop - if they do - may be many, many years. The interpretation of epidemiological studies is hampered by difficulties in measuring actual RF exposure during day-to-day use of wireless phones. Many factors affect this measurement, such as the angle at which the phone is held, or which model of phone is used.

12. Which other federal agencies have responsibilities related to potential RF health effects?

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

FCC RF Safety Program:
http://www.fcc.gov/oet/rfsafety/

Environmental Protection Agency (EPA):
http://www.epa.gov/radiation/

Occupational Safety and Health Administration's (OSHA):
http://www.osha-slc.gov/SLTC/radiofrequencyradiation/index.html

National Institute for Occupational Safety and Health (NIOSH):
http://www.cdc.gov/niosh/topics/emf/

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

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

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

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

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