



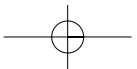
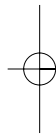
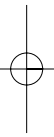
LG 500

User Guide



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Unpacking

Check to make sure that you have all the parts shown below.



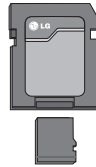
Handset



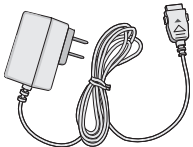
Standard Battery



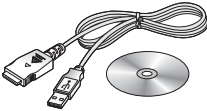
User Guide



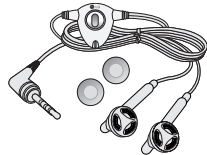
**Memory card adapter /
Memory card**



Travel Adapter



**USB Data cable
/LG Mobile Suite**



Stereo headset

For Your Safety

Important Information

This user guide contains important information on the use and operation of this phone. Please read all the information carefully for optimal performance and to prevent any damage to or misuse of the phone. Any changes or modifications not expressly approved in this user guide could void your warranty for this equipment.

Before You Start

Safety Instructions

WARNING! To reduce the possibility of electric shock, do not expose your phone to high humidity areas, such as the bathroom, swimming pool, etc.

Always store your phone away from heat.

Never store your phone in settings that may expose it to temperatures less than 32°F or greater than 104°F, such as outside during extreme weather conditions or in your car on a hot day. Exposure to excessive cold or heat will result in malfunction, damage and/or catastrophic failure.

Be careful when using your phone near other electronic devices. RF emissions from your mobile phone may affect nearby inadequately shielded

electronic equipment. You should consult with manufacturers of any personal medical devices such as pacemakers and hearing aids to determine if they are susceptible to interference from your mobilephone. Turn off your phone in a medical facility or at a gas station. Never place your phone in a microwave oven as this will cause the battery to explode.

IMPORTANT! Please read the TIA SAFETY INFORMATION on page 66 before using your phone.

Safety Information

Read these simple guidelines. Breaking the rules may be dangerous or illegal. Further detailed information is given in this user guide.

- ▶ Never use an unapproved battery since this could damage the phone and/or battery and could cause the battery to explode.
- ▶ Never place your phone in a microwave oven as it will cause the battery to explode.
- ▶ Do not dispose of your battery by fire or with hazardous or flammable materials.
- ▶ Make sure that no sharp-edged items such as animal's teeth, nails, come into contact with the battery. There is a risk of this causing a fire.

For Your Safety

- ▶ Store the battery in a place out of reach of children.
- ▶ Be careful that children do not swallow any parts such as rubber plugs (bottom data port plug). This could cause asphyxiation or suffocation.
- ▶ Unplug the power cord and charger during lightning storms to avoid electric shock or fire.
- ▶ When riding in a car, do not leave your phone or set up the hands-free kit near to the air bag. If wireless equipment is improperly installed and the air bag is activated, you may be seriously injured.
- ▶ Do not use a hand-held phone while driving.
- ▶ Do not use the phone in areas where its use is prohibited. (For example: aircraft).
- ▶ Do not expose the battery charger or adapter to direct sunlight or use it in places with high humidity, such as a bathroom.
- ▶ Never store your phone in temperatures less than - 4°F or greater than 122°F.
- ▶ Do not use harsh chemicals (such as alcohol, benzene, thinners, etc.) or detergents to clean your phone. There is a risk of this causing a fire.
- ▶ Do not drop, strike, or shake your phone severely. Such actions may harm the internal circuit boards of the phone.
- ▶ Do not use your phone in high explosive areas as the phone may generate sparks.
- ▶ Do not damage the power cord by bending, twisting, pulling, or heating. Do not use the plug if it is loose as it may cause a fire or electric shock.
- ▶ Do not place any heavy items on the power cord. Do not allow the power cord to be crimped as it may cause fire or electric shock.
- ▶ Do not handle the phone with wet hands while it is being charged. It may cause an electric shock or seriously damage your phone.
- ▶ Do not disassemble the phone.
- ▶ Do not place or answer calls while charging the phone as it may short-circuit the phone and/or cause electric shock or fire.
- ▶ Only use the batteries, antennas, and chargers provided by LG. The warranty will not be applied to products provided by other suppliers.
- ▶ Only authorized personnel should service the phone and its accessories. Faulty installation or service may result in accidents and consequently invalidate the warranty.



For Your Safety

- ▶ Do not hold or let the antenna come in contact with your body during a call.
- ▶ An emergency call can be made only within a service area. For an emergency call, make sure that you are within a service area and that the phone is turned on.

Memory card information and care

- ▶ Always insert/ remove the memory card while the handset power is off.
- ▶ If the damage cannot be fixed, format the memory card.
- ▶ The memory card cannot be used for recording copyright- protected data.
- ▶ Do not write forcefully on the memo area.
- ▶ Carry and store the memory card in its case.
- ▶ Do not allow the memory card to get wet.
- ▶ Do not leave the memory card in an extremely hot location.
- ▶ Do not disassemble or modify the memory card.

FCC RF Exposure Information

WARNING! Read this information before operating the phone.

In August 1996, the Federal Communications (FCC) of the United States, with its action in Report and Order FCC 96-326, adopted an updated safety standard for human exposure to radio frequency (RF) electromagnetic energy emitted by FCC regulated transmitters. Those guidelines are consistent with the safety standard previously set by both U.S. and international standards bodies.

The design of this phone complies with the FCC guidelines and these international standards.

CAUTION

Use only the supplied and approved antenna. Use of unauthorized antennas or modifications could impair call quality, damage the phone, void your warranty and/or result in violation of FCC regulations. Do not use the phone with a damaged antenna. If a damaged antenna comes into contact with skin, a minor burn may result. Contact your local dealer for a replacement antenna.

Body-worn Operation

This device was tested for typical body-worn operations with the back of the phone kept 0.6 inches (1.5cm) between the user's body and the back of the phone. To comply with FCC RF exposure requirements, a minimum separation distance of 0.6 inches (1.5cm) must be



For Your Safety

maintained between the user's body and the back of the phone. Third-party belt-clips, holsters, and similar accessories containing metallic components should not be used. Body-worn accessories that cannot maintain 0.6 inches (1.5 cm) separation distance between the user's body and the back of the phone, and have not been tested for typical body-worn operations may not comply with FCC RF exposure limits and should be avoided.

Vehicle Mounted External Antenna (optional, if available)

A minimum separation distance of 8 inches (20 cm) must be maintained between the user/bystander and the vehicle mounted external antenna to satisfy FCC RF exposure requirements. For more information about RF exposure, visit the FCC website at www.fcc.gov

FCC Part 15 Class B Compliance

This device and its accessories comply with part 15 of FCC rules. Operation is subject to the following two conditions: (1) This device and its accessories may not cause harmful interference, and (2) this device and its accessories must accept any interference received, including interference that may cause undesired operation.

Cautions for Battery

- ▶ Do not disassemble.
- ▶ Do not short-circuit.
- ▶ Do not expose to high temperature: 60°C (140°F).]
- ▶ Do not incinerate.

Battery Disposal

- ▶ Please dispose of your battery properly or bring to your local wireless carrier for recycling.
- ▶ Do not dispose in fire or with hazardous or flammable materials.

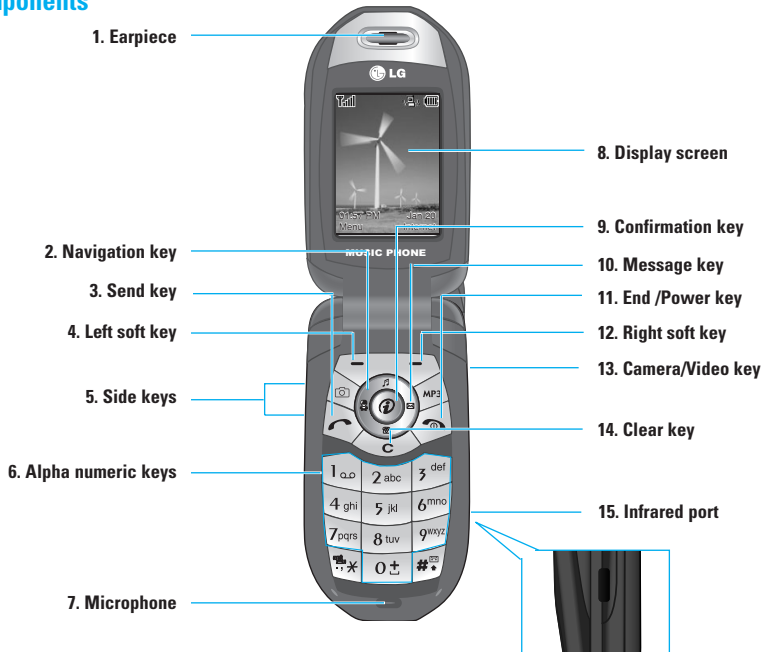
Adapter (Charger) Cautions

- ▶ Using the wrong battery charger could damage your phone and void your warranty.
- ▶ The adapter or battery charger is intended for indoor use only.

Do not expose the adapter or battery charger to direct sunlight or use it in places with high humidity, such as the bathroom.

Your Phone

Phone Components



Your Phone's Features

- 1. Earpiece**
- 2. Navigation key:** Use for quick access to phone functions.
- 3. Send key:** You can dial a phone number and answer incoming calls. Press this key in standby mode to quickly access the most recent incoming, outgoing and missed calls.
- 4.12. Left soft key/Right soft key:** Each of these keys perform the functions indicated by the text on the display immediately above them.
- 5. Side keys:** These keys are used to control the volume of ringtone in standby mode and speaker volume during a call.
- 6. Alphanumeric keys:** These keys are used to dial a number in standby mode and to enter number or characters in edit mode.
- 7. Microphone:** Can be muted during a call for privacy.
- 8. Display screen:** Displays phone status icons, menu items, Web information, pictures and more in full color.
- 9. Confirmation key:** Long press will launch the WAP browser. Allows you to select and confirm menu options.
- 10. Message key:** Use to retrieve or send text messages.
- 11. End/Power key:** Allows you to power the phone on or off, end calls, or return to Standby Mode.
- 13. Camera/Video key:** Long pressing this key to use the camera / video feature. Directly goes to the camera / video mode.
- 14. Clear key:** Allows you to delete the characters entered or return you to the previous screen.
- 15. Infrared port:** Indicates that you have activated the infrared features to communicate with an IrDA-compliant device and to send or receive data.

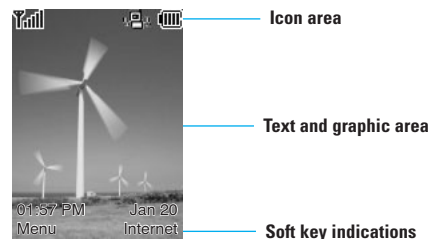
Your Phone



Backlight

A backlight illuminates the display and the keypad. When you press any key or open the flip, the backlight turns on. It turns off if no key is pressed within a given period of time, depending on the **Backlight Timer** menu option. To specify the length of time the backlight is active, set the **Backlight Timer** menu option (Menu 9.2.2). See page 57 for further details.












Display Information



Area	Description
First line	Displays various icons. See page 13
Middle lines	Display messages, instructions and Any information that you enter, such As number to be dialed.
Last line	Shows the functions currently Assigned to the two soft keys.

On-Screen Icons

The table below describes various display indicators or icons that appear on the phone's display screen.

Icon	Description
	Indicates the strength of the network signal.
	Indicates a call is in progress.
	Indicates that GPRS service is available.
	Indicates the alarm has been set and is on.
	Indicates the status of the battery charge.
	Indicates the receipt of a message.
	Indicates the receipt of a voice mail.
	Indicates that vibration has been set for incoming phone alerts.
	Indicates the silent has been set for incoming phone alert.
	Indicates Ring has been set for incoming phone alerts.
	Indicates the Schedule function.


Getting Started

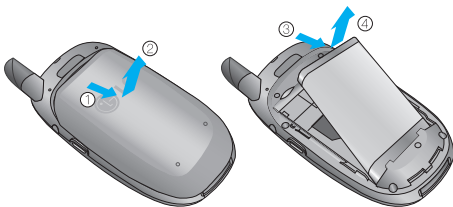
Installing the SIM Card

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

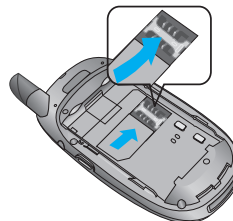
! Important!

The plug-in SIM card and its contacts can be easily damaged by scratches or bending, so be careful when handling, inserting or removing the card. Keep all SIM cards out of the reach of small children.

1. If necessary, switch off the phone by holding down the  key until the power-off image displays.
2. Remove the battery. To do so:

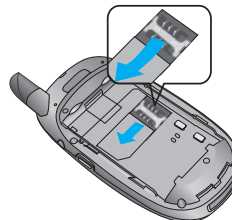


3. Slide the SIM card into the SIM card socket so that it locks the card into place. Make sure that the notched corner is bottom left and the gold contacts of the card face into the phone.



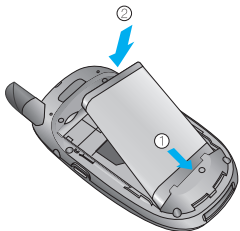
! Note

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

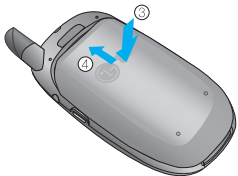


Getting Started

- Position the lugs on the down of the battery into the retaining holder. Then push the bottom of the battery into position until it clicks.



- Attach back cover by sliding up into position until it clicks.



Charging the Battery

Use of unauthorized accessories could damage your phone and invalidate your warranty.

To use the travel adapter provided with your phone:

- With the battery in position on the phone, connect the lead from the travel adapter to the bottom of the phone. Check that the arrow on the lead connector is facing towards the front of the phone.
- Connect the adapter to a standard AC wall outlet. Only use the travel adapter that comes included with the package.



Warning

You must unplug the adapter before you remove the battery from the phone during charging; otherwise, the phone could be damaged.

Getting Started

- When charging is finished, disconnect the adapter from the power outlet and from the phone by pressing on the gray tabs on both sides of the connector while pulling the connector out.



Notice

- ▶ If your phone is powered on while charging, you'll see the bars in the battery indicator icon cycle. When the battery is fully charged, the bars in the battery indicator icon will flash on and off.

If the battery fails to charge completely:

- ▶ After turning the phone on and off, please attempt to recharge the battery.
- ▶ After detaching and reattaching the battery, please attempt to recharge the battery.

Memory card

LG 500 is equipped on the side with Memory card with a maximum of 512MB capacity. You can use this card to save data files such as MP3 songs.

Note

Always insert/remove the memory card with the handset power off.

Use the memory card that comes with the handset. Please take note that some memory cards will not be compliant with the handset.

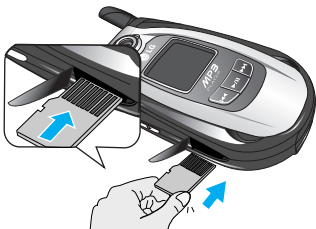
Inserting the memory card

Insert the memory card into the slot until the memory card is fully inserted into the slot, as shown in the figure below:



Open the memory card slot

The gold contacts of the Memory card must be facing up



Insert the memory card

Removing the memory card

1. Push in memory card with the tip of your finger into the slot to unlock the card.
2. Carefully pull the memory card out of slot.



Remove the memory card

Memory card adapter



When you insert the memory card into its adapter, it can be used with devices that use SD card slots to exchange and save your data without using a data cable.

1. Insert the memory card into adapter.
2. Insert the adapter into SD slot of PC.
3. Check the status of external memory in PC.

Note

Before connecting this memory card adapter to PC, check the status whether your PC is built in SD slot or not.

Turning Your Phone On and Off

1. Open the flip.
2. Hold down the  key until the phone switches on.
3. If the phone asks for a PIN, enter the PIN and press the left soft key **[OK]**.
4. When you wish to switch the phone off, hold down the  key until the power-off image displays.

Getting Started

Access Codes





You can use the access codes described in this section to avoid unauthorized use of your phone. The access codes can be changed by using the **Change Codes** feature (Menu 9.5.5).

Security code (4 to 8 digits)



The security code protects the unauthorized use of your phone. The default security code is set to '0000' and the security code is required to delete all phone entries and to activate the Restore Factory Settings menu. The security code default setting can be modified from the Security Settings menu.

General Functions



Making a Call

1. Make sure your phone is powered on.
2. Enter a phone number including the area code.
To edit a number on the display screen, simply press the  key to erase one digit at a time.
 - ▶ Press and hold the  key to erase the entire number.
3. Press the  key to call the number.
4. When finished, press the  key.

Making a Call by Send Key

1. Press the  key, and the most recent incoming, outgoing and missed phone numbers will be displayed.
2. Select the desired number by using the navigation key.
3. Press the  key.

Making International Calls

1. Press and hold the  key for the international prefix.
The '+' character can be replaced with the international access code.
2. Enter the country code, area code, and the phone number.
3. Press the  key.

Ending a Call

When you have finished a call, press the  key.

Making a Call From the Contacts List (Menu.8.1)

You can store names and phone numbers dialed frequently in the SIM card as well as the phone memory known as the Contact List. You can dial a number by simply looking up a name in the contact list.

General Functions



Adjusting the Volume

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

In idle mode, you can adjust the ring volume using the side keys.


Answering a Call

When you receive a call, the phone rings and the flashing phone icon appears on the screen. If the caller can be identified, the caller's phone number (or name if stored in your Address Book) is displayed.

1. Open the flip and press the  key or the left soft key to answer an incoming call. If the Any Key menu option(Menu 9.4.2) has been set, any key press will answer a call except for the  key or the right soft key.

Notice


- ▶ To reject an incoming call, press and hold the side keys on the left side of the phone.
- ▶ If the Flip Open menu option(Menu 9.4.2) is set, you do not need to press any key. You can answer the call simply by opening the flip.

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


Notice

You can answer a call while using the Address Book or other menu features.

Vibrate Mode (Quick)

Vibrate Mode can be activated by pressing and holding down  key.

Signal Strength

If you are inside a building, being near a window may give you better reception. You can see the strength of your signal by the signal indicator () on your phone's display screen.

Entering Text

You can enter alphanumeric characters by using the phone's keypad. For example, storing names in the Address Book, writing a message, creating scheduling events in the calendar all require entering text. The following text input methods are available in the phone.


T9 Mode

This mode allows you to enter words with only one keystroke per letter. Each key on the keypad has more than one letter. The T9 mode automatically compares your keystrokes with an internal linguistic dictionary to determine the correct word, thus requiring far fewer keystrokes than the traditional ABC mode.

ABC Mode

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

123 Mode (Numbers Mode)

Type numbers using one keystroke per number. To change to 123 mode in a text entry field, press  key until 123 mode is displayed. A long press changes mode to 123.

Symbolic Mode

This mode allows you to enter special characters.

Notice

You can select a different T9 language from the menu option. The default setting on the phone is T9 disabled mode.



Changing the Text Input Mode

Change the text input mode by pressing .

You can check the current text input mode in the upper right corner of the screen.


Using the T9 Mode

The T9 predictive text input mode allows you to enter words easily with a minimum number of key presses. As you press each key, the phone begins to display the characters that it thinks you are typing based on a built-in dictionary. As new letters are added, the word changes to reflect the most likely candidate from the dictionary.

1. When you are in the T9 predictive text input mode, start entering a word by pressing keys  to . Press one key per letter.


- ▶ The word changes as letters are typed - ignore what's on the screen until the word is typed completely.
- ▶ If the word is still incorrect after typing completely, press the down navigation key once or more to cycle through the other word options.
- ▶ If the desired word is missing from the word choices list, add it by using the ABC mode.

General Functions

2. Enter the whole word before editing or deleting any keystrokes.
3. Complete each word with a space by pressing the .




To delete letters, press . Press and hold down  to erase the letters continuously.

Notice

To exit the text input mode without saving your input, press .

Using the ABC Mode

Use the  to  keys to enter your text.

1. Press the key labeled with the required letter:
 - ▶ Once for the first letter
 - ▶ Twice for the second letter
 - ▶ And so on
2. To insert a space, press the  key once. To delete letters, press the  key. Press and hold down the  key to erase the letters continuously.

Notice

Refer to the table below for more information on the characters available using the keys.

Key	Characters in the Order Display	
	Upper Case	Lower Case
1	.,/?!-:'"1	.,/?!-:'"1
2	A B C 2	a b c 2
3	D E F 3	d e f 3
4	G H I 4	g h i 4
5	J K L 5	j k l 5
6	M N O 6	m n o 6
7	P Q R S 7	p q r s 7
8	T U V 8	t u v 8
9	W X Y Z 9	w x y z 9
0	Space 0	Space 0

General Functions


Using the 123 (Numbers) Mode

The 123 Mode enables you to enter numbers in a text message (a telephone number, for example).



Press the keys corresponding to the required digits before manually switching back to the appropriate text entry mode.

Using the Symbol Mode

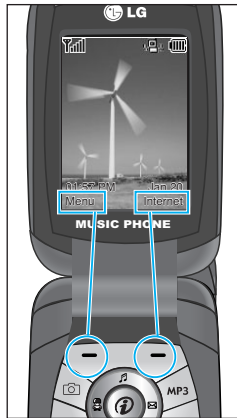
The Symbol Mode enables you to enter various symbols or special characters.

To enter a symbol, press the  key. Use the navigation keys to select the desired symbol and press the **[Select]** key.

Selecting Functions and Options

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

The roles of the soft keys vary according to the current context; the label on the bottom line of the display just above each key indicates its current role.



Press the left soft key to access the available Menu.

Press the right soft key to access the Internet.

In-Call Menu

Your phone provides a number of control functions that you can use during a call. To access these functions during a call, press the left soft key [**Options**].

During a Call

The menu displayed on the handset screen during a call is different than the default main menu displayed when in idle screen, and the options are described below.


Making a Second Call

You can get a number you wish to dial from the Address Book to make a second call. Press the left soft key then select Contact List.


Swapping Between Two Calls

To switch between two calls, press the left soft key or  key, and then select **Swap**.


Answering an Incoming Call


To answer an incoming call when the handset is ringing, simply press the  key. The handset is also able to warn you of an incoming call while you are

already on a call. A tone sounds in the earpiece, and the display will show that a second call is waiting. This feature, known as **Call Waiting**, is only available if your network supports it. For details of how to activate and deactivate it see **Call Waiting** (Menu 9.4.4).

If Call Waiting is on, you can put the first call on hold and answer the second, by pressing .

Rejecting an Incoming Call

You can reject an incoming call without answering by simply pressing the  key.

During a call, you can reject an incoming call by pressing the  key.

Muting the Microphone



You can mute the microphone during a call by pressing the [**Options**] key then selecting **Mute** or right soft key [**Mute**]. The handset can be unmuted by pressing the **Unmute** menu or right soft key [**Unmute**]. When the handset is muted, the caller cannot hear you, but you can still hear them.

In-Call Menu

Conference Calls

The conference service provides you with the ability to have a simultaneous conversation with more than one caller, if your network service provider supports this feature. A conference call can only be set up when you have one active call and one call on hold, both calls having been answered. Once a conference call is set up, calls may be added, disconnected or separated (that is, removed from the conference call but still connected to you) by the person who set up the conference call. These options are all available from the In-Call menu. The maximum callers in a conference call are five. Once started, you are in control of the conference call, and only you can add calls to the conference call.


Making a Second Call

You can make a second call while currently on a call. Enter the second number and press the . When the second call is connected, the first call is automatically placed on hold. You can swap between calls, by pressing the  key.

Setting Up a Conference Call

To set up a conference call, place one call on hold and while the active call is on, press the left soft key and then select the Join menu of Conference call.

Activate the Conference Call on Hold

To activate a conference call on hold, press the  key.


Adding Calls to the Conference Call

To add a call to an existing conference call, press the left soft key, and then select the Join menu of Conference call.

Private Call in a Conference Call

To have a private call with one caller from a conference call, display the number of the caller you wish to talk to on the screen, then press the left soft key. Select the Private menu of Conference call to put all the other callers on hold.

Ending a Conference Call

Currently displayed caller from a conference call can be disconnected by pressing the  key.



Menu Tree

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

- ▶ Number assigned to each menu option.
- ▶ Page where you can find the feature description.

1. Multimedia (see page 29)

1.1 Camera / Video

- 1.1.1 Take Photo
- 1.1.2 Record Video
- 1.1.3 Photo Gallery
- 1.1.4 Video Gallery
- 1.1.5 View Online Album
- 1.1.6 Check Memory

1.2 MP3 Player

2. Messaging (see page 34)

2.1 Create New Message

- 2.1.1 Text
- 2.1.2 Multimedia

2.2 Inbox

2.3 Outbox

2.4 Drafts

2.5 Voice Mail

- 2.5.1 Listen Voice Mail
- 2.5.2 Voice Mail Number

2.6 Info Messages

2.7 Templates

- 2.7.1 Text
- 2.7.2 Multimedia
- 2.7.3 Business Card

2.8 Settings

- 2.8.1 Text Messages
- 2.8.2 Multimedia Messages
- 2.8.3 Download Messages
- 2.8.4 Info Messages

2.9 Check Memory

3. Internet (see page 42)

3.1 GoRogers

3.2 Access Point

3.3 Cache Settings

- 3.3.1 Clear Cache
- 3.3.2 Allow Cache

3.4 Cookie Settings

3.5 Security Certificates

3.6 Information

4. Games & Apps (see page 45)

4.1 Download Games

4.2 Games & Apps

4.3 Access Point

4.4 Information

- 4.4.1 Memory Status
- 4.4.2 Java Version

5. Media Services (see page 46)

5.1 Games & Apps

5.2 Ringtones / Audio

5.3 Graphics

5.4 View Online Album

6. Recent Calls (see page 47)

6.1 Missed Calls

6.2 Dialed Calls

6.3 Received Calls

6.4 Delete Recent Calls

6.5 Call Duration

Menu Tree

7. Tools (see page 49)

- 7.1 Alarm Clock
- 7.2 Calendar
- 7.3 Voice Memo
 - 7.3.1 Record
 - 7.3.2 View List
- 7.4 Calculator
- 7.5 Notepad
- 7.6 World Clock
- 7.7 Unit Converter
- 7.8 Infrared

8. Address Book (see page 53)

- 8.1 Contacts
- 8.2 New Contact
- 8.3 Speed Dial List
- 8.4 Caller Groups
- 8.5 Copy All Contacts
 - 8.5.1 SIM to Phone
 - 8.5.2 Phone to SIM

8.6 Delete All Contacts

8.7 Settings

- 8.7.1 Set Save Location
- 8.7.2 View Options

8.8 Information

- 8.8.1 Service Dial Number
- 8.8.2 Check Memory
- 8.8.3 My Mobile Number

9. Settings (see page 57)

9.1 Sounds

- 9.1.1 Download Ring Tune
- 9.1.2 Ringtones
- 9.1.3 Volume
- 9.1.4 Ring Alert Type
- 9.1.5 Message Alert Tones
- 9.1.6 Key Tones
- 9.1.7 Voice Memo

9.2 Display

- 9.2.1 Wallpaper
- 9.2.2 Backlight Timer
- 9.2.3 Languages
- 9.2.4 Menu Style
- 9.2.5 Banner
- 9.2.6 Theme
- 9.2.7 Information Box

9.3 Date & Time

- 9.3.1 Set Date
- 9.3.2 Date Format
- 9.3.3 Set Time
- 9.3.4 Time Format
- 9.3.5 Auto Update

9.4 Call

- 9.4.1 Call Forwarding
- 9.4.2 Answer Mode
- 9.4.3 Send My Number
- 9.4.4 Call Waiting
- 9.4.5 Minute Minder
- 9.4.6 Auto Redial
- 9.4.7 Select Line
- 9.4.8 Send DTMF Tones

9.5 Security

- 9.5.1 Request PIN Code
- 9.5.2 Phone Lock
- 9.5.3 Call Barring Service
- 9.5.4 Fixed Dial Number
- 9.5.5 Change Codes

9.6 Connection

- 9.6.1 Network
- 9.6.2 Change Frequency Band
- 9.6.3 GPRS Attach

9.7 Reset Default



Multimedia

Camera / Video

Menu 1.1

The integrated camera allows you to take pictures at a maximum resolution 640X480 pixels (also known as VGA).

Taking pictures will be more fun thanks to the additional functions such as the 4X Zoom (depending on the resolution), Brightness control, White Balance and Color Effect. And the integrated Flash allows you to take pictures even when light conditions are poor.

Also, the integrated camera is possible to record a video clip.

Note

If the battery is too low, you may not be able to use the Camera/Video feature.

Take Photo (Menu 1.1.1)

Using the camera module built in your phone, you can take pictures of people or events while on the move. Additionally, you can send photos to other people in a picture message.

The right soft key **[Options]** will bring up the following options.

Note

Press the left soft key **[Video]**: Video application enables you to record a video clip.


Note

In Take Photo mode, you can adjust the zoom scale by using the side key. The maximum zoom scale depends on the resolution as follows.

Resolution	Zoom scale
640x480	x1
320x240	x1, x2, x3, x4
128x160	x1, x2, x3, x4

- ▶ **Resolution:** Sets the image size to one of Hi (640X480), Med (320X240), Low (128X160). The selected image size displays on the capture screen. You can zoom In/Out by upper/lower key except 640X480.
- ▶ **Quality:** Determines the quality of an image.
- ▶ **White Balance:** This adjusts the light effect level and you can select from the following options: Auto / Daylight / Incandescent / Cloudy / Fluorescent.

Multimedia

- ▶ **Self Timer:** Determines the delay time.
- ▶ **Flash:** Allows you to turn the flash on or off. For one touch access, press , while in Camera (or Video) mode.
- ▶ **Color Effect:** Allows you to apply special effect to the picture. You can select from Color / Sepia / Mono.
- ▶ **Fun Frames:** Allows you to use a fun frame.
- ▶ **Multishot:** This feature enables the amount of continuous frames that can be taken at one time. The number of frames is determined by the image size setting.
- ▶ **Shutter Tones:** Allows you to select a sound when you press the shutter.
Sound 1 / Sound 2 / Sound 3 / Off
- ▶ **Default Settings:** This restores the original camera settings (Size, Brightness, Zoom, etc.).



Taking a single still shot

After finishing camera option setting (if needed), focus on the subject to capture and press the Camera key or  key. With a click, the image is captured and then automatically saved in the **Photo Gallery**.

Taking multiple shots in succession

Select the **Multishot** mode. After finishing camera option setting, focus on the subject to capture and press the Camera key. With a click, the image is captured and then automatically saved in the **Photo Gallery**.

Record Video (Menu 1.1.2)

You can record a video clip in this menu by pressing the  key. Before taking a shot, press the right soft key [**Options**] to set the following values. Select the desired value and press the  key to confirm it.


Note


In Record Video mode, you can adjust the zoom scale by using the side key. The maximum zoom scale depends on the resolution as follows.

Resolution	Zoom scale
128x96	x1, x2, x3, x4
176x144	x1, x2, x3, x4

Note

Press the left soft key [**Photo**]: Camera application enables you to take a still picture.

- ▶ **Resolution:** Sets the image size to one of Low (128X96), Hi (176X144).
- ▶ **Quality:** Determines the quality of a video clip.
- ▶ **White Balance:** This adjusts the light effect level and you can select from the following options: Auto / Daylight / Incandescent / Cloudy / Fluorescent.
- ▶ **Flash:** Allows you to turn the flash on or off. For one touch access, press , while in Camera (or Video) mode.
- ▶ **Color Effect:** Allows you to apply special effect to the video clip. You can select from Color / Sepia / Mono.
- ▶ **Default Settings:** This restores the original camera settings (Size, Brightness, Zoom, etc.).

Press the  key to start recording a video clip. Recording Time is updated on the LCD screen.

To stop recording, press the right soft key. It is automatically saved in **Video Gallery**.

Photo Gallery (Menu 1.1.3)

All the still images taken in the **Take Photo** menu are stored in this menu. You can view, organize and send the pictures saved in your phone. Select the picture you want press the left soft key [**Options**] to access the following submenus.

- ▶ **View:** You can view one image at a time.
- ▶ **Send via Multimedia Message:** You can send the selected image via a multimedia message.
- ▶ **Store To Online Album:** Allows you to save your photos in Online Album. For further details, see the menu View Online Album.
- ▶ **Delete:** Deletes the selected image.
- ▶ **Set as:**
 - **Wallpaper:** You can set the selected image as wallpaper.
 - **Photo ID:** You can add the selected image to an address book contact to use the Photo Caller ID feature.
- ▶ **Rename:** You can change the name of the selected image.

Multimedia

- ▶ **Edit:** (Shown in the normal view) After selecting the normal view of an image, you can edit it as follows. After editing, the changed image can be saved by pressing the left soft key [**Save**]. And the original image is retained.
 - **Effect Filters:** You can give various effects to the image. After selecting the desired effect from 5 effect filters using the left/right navigation key, press the left soft key [**Save**]. The changed image is stored.
 - **Rotate:** You can rotate the image 90, 180, or 270 degrees.
- ▶ **Delete All:** Deletes all the images in your phone.
- ▶ **Information:** You can check the title, resolution, size, and date and time of the selected image.

Video Gallery *(Menu 1.1.4)*

Select the desired video clip using left/right/up/down navigation keys, you can access the following submenu using the left soft key [**Options**].

- ▶ **Send via Multimedia Message:** You can send the selected video clip via a multimedia message.

- ▶ **Store To Online Album:** Allows you to save your photos in Online Album. For further details, see the menu View Online Album.
- ▶ **Delete:** Deletes the selected video clip.
- ▶ **Playback:** You can play video clip with below option
 - **Once:** play the selected video clip only one time
 - **Repeat:** play the selected video clip repeatedly
 - **Continuous:** play all the video clip in your phone continuously
- ▶ **Rename:** You can change the title of the selected video clip.
- ▶ **Delete All:** Deletes all the video clips in your phone.
- ▶ **Information:** You can check the title, size, recording time and date of the selected video clip.

View Online Album *(Menu 1.1.5)*

The Online Album is a space to keep the user's photos and MMS data(pictures). We can get access to the View Online Album by mobile phone. Also, you can connect to the album on the Internet through the WAP address.



Multimedia

Check Memory *(Menu 1.1.6)*

You can check the current memory status on the phone.

MP3 Player

Menu 1.2

- ▶ **All Songs:** This menu allows to view the whole play list in the external memory.
- ▶ **My Playlist:** You can create the own play list with the selected song that you want in the list of All songs menu.
- ▶ **Audio Settings**
 - **Shuffle:** Randomly plays all the tracks.
 - **Repeat:** This menu allows you to change the play mode: Repeat All, Repeat One and Off.
 - **Preset EQ:** This menu helps you to adjust various of environment on listening to the music. This phone supports six preset menus. When you access this menu, you can view what the current EQ setting
 - **Player Skin:** You can select the desired player skin on the screen.

- ▶ **Check Memory:** This function shows the status of the external memory card.

⚠ Note

The copyright of music files can be protected in international treaties and national copyright laws. Therefore, it may be necessary to obtain a permission or a license to reproduce or copy music. In some countries national law prohibits private copying of copyrighted material. Before downloading or copying the file, please check the national legislation of the applicable country concerning the use of such material.

Messaging

This menu includes functions related to SMS (Short Message Service), MMS (Multimedia Message Service), voice mail, as well as the network's service messages.

Create New Message

Menu 2.1

Text *(Menu 2.1.1)*

You can write and edit text message.

1. If you want to write a text message, select **Text**.
2. To make text input easier, use T9.
3. Press [**Insert**] to add special information.
4. If you want to set option for your text, or to finish your writing, press the left soft key [**Options**].


Note

The LG 500 is MMS equipped and can send pictures, video and sound. The receiving party may not receive your message if his or her phone does not support such options.

Insert

- ▶ **Symbol:** You can add special characters.
- ▶ **Text Templates:** You can use Text templates already set in the phone.
- ▶ **Address Book:** You can add phone numbers or e-mail addresses in Address Book.
- ▶ **Business Card:** You can add your business card to the message.

Options

- ▶ **Send to:** Lets you enter recipients to receive messages.
 1. Enter numbers of the recipients.
 2. Press  key to add more recipients.
 3. You can add phone numbers in the address book.
 4. Press the right soft key after entering numbers. All messages will be automatically saved in the outbox folder, even after a sending failure.
- ▶ **Save to Drafts:** Stores messages in the Drafts folder.
- ▶ **Edit Subject:** You can edit the content of your message.
- ▶ **Font:** You can select **Size** and **Style** of fonts.

Messaging

- ▶ **Color:** You can select **Color** of the foreground and background.
- ▶ **Alignment:** You can make the message contents aligned **Left**, **Center** or **Right**.
- ▶ **T9 Languages:** Select a T9 input mode.
- ▶ **Cancel:** If you press **Cancel** while writing a message, you will exit the message section without saving any of the content.

Multimedia *(Menu 2.1.2)*

You can write and edit multimedia messages.

1. If you want to write a multimedia message, select Multimedia.
2. You can create a new message or choose one of the multimedia message templates already made.
3. Press Insert and you can add the following: Symbol, Graphic, Photo, New Photo, Sound, New Sound, Video, New Video, New Slide, Text Templates, Address Book or Business card.

Options

- ▶ **Send to:** You can send multimedia messages to multiple recipients, prioritize your message, and make it sent later as well.

! Note

All messages will be automatically saved in the outbox folder, even after a sending failure.

- ▶ **Preview:** You can preview multimedia messages you wrote.
- ▶ **Save:** You can save multimedia messages.
- ▶ **Edit Subject:** You can edit the content of your message.
- ▶ **Move to:** You can move to previous or next slide.
- ▶ **Delete Slide:** You can delete current slide.
- ▶ **Set Slide Format**
 - **Set Timer:** You can set timer for slide, text, picture and sound.
- ▶ **T9 Languages:** Select a T9 input mode.
- ▶ **Cancel:** You can back to the Message menu.

Messaging

Note

If you select the photo on writing multimedia message, loading duration will take about 5 seconds. Please wait until the picture is uploaded before continuing.

Inbox

Menu 2.2

You will be alerted when you have received messages. They will be stored in the Inbox. If the phone shows 'No space for SIM message', you have to delete only SIM messages from the Inbox. If the phone displays 'No space for message', you can make space of each repository as deleting messages, media and applications.

* SIM message

For a notified multimedia message, you can download the whole multimedia message by selecting **Receive**. To change download setting, see (Menu 2.8.2) for more detail.

Pressing the left soft key opens **OPTIONS**. To read a message, you must press the **Ⓜ**.

- ▶ **Reply:** You can reply to the sender.
- ▶ **Delete:** You can delete the current message.
- ▶ **Forward:** You can forward the selected message to another party.
- ▶ **Extract:** You can extract a picture, video, sound, phone number, email address and URL. They will be saved in My folder or Address Book.
- ▶ **Call Back:** You can call back to the sender.
- ▶ **Information:** You can view information about received messages.

Outbox

Menu 2.3

You can see sent and unsent messages here. For sent message, you can see the delivery status.

* When you already sent the message:

- ▶ **View:** You can preview multimedia messages you wrote.
- ▶ **Delete:** You can delete the current message.
- ▶ **Forward:** You can forward the current message to other recipients.

Messaging

- ▶ **Information:** You can view information about outgoing messages; Recipient's address, Subject, Message date & time, Message type, Message size.
- ▶ **Delete all:** You can delete all messages in the Outbox.

※ When you didn't send the message:

- ▶ **View:** You can preview multimedia messages you wrote.
- ▶ **Delete:** You can delete the current message.
- ▶ **Edit:** You can edit the current message.
- ▶ **Send:** You can send the message.
- ▶ **Information:** You can view information about outgoing messages.
- ▶ **Delete all:** You can delete all messages in Outbox.

Drafts

Menu 2.4

You can view the messages saved as a draft. The draft messages are listed with the date and time when they were saved.

The following options are available.

- ▶ **View:** View the message you choose.


- ▶ **Delete:** Deletes the message you choose.
- ▶ **Edit:** Edits the message you choose.
- ▶ **Information:** To view the information of the message.
- ▶ **Delete All:** Deletes all messages in the folder.

Voice Mail

Menu 2.5

This menu provides you with a quick way of accessing your voice mailbox (if provided by your network). Before using this feature, you must enter the voice server number obtained from your service provider. When new voicemail is received, the symbol will be displayed on the screen. Please check with your network service provider for details of their service in order to configure the handset accordingly.

Listen Voice Mail *(Menu 2.5.1)*

Before using this feature, you must enter the voice server number obtained from your service provider (see menu option 2.5.2). You can quickly connect to the first voice server by pressing and holding the  key in Idle Mode.

Messaging

Voice Mail Number *(Menu 2.5.2)*

Allows you to change the voice mail server number, if necessary.

Note

Voice Mail is a network feature. Please contact your service provider for further information.

Info Messages

Menu 2.6

Info service messages are text messages sent by the network to GSM phone users. They provide general information such as weather reports, traffic news, taxis, pharmacies, and stock prices. Each type of information is associated with a number, which can be obtained from the service provider. When you receive an info service message, a popup message will indicate a new message receipt or the info service message will be displayed directly.

Templates

Menu 2.7

Text *(Menu 2.7.1)*

There are 6 predefined messages in the list. You can view and edit the template messages or create new messages.

The following options are available.

- ▶ **Edit:** Allows you to write a new message or edit the selected template message.
- ▶ **Send via**
 - **Text Message:** Sends the selected template message by SMS
 - **Multimedia Message:** Sends the selected template message by MMS.
- ▶ **Delete:** Allows you to delete the selected template message.

Multimedia *(Menu 2.7.2)*

- ▶ **Preview:** You can preview multimedia messages you wrote.
- ▶ **Save:** You can save multimedia messages.

Messaging

- ▶ **Edit Subject:** You can edit subject.
- ▶ **Move to:** You can move to previous or next slide.
- ▶ **Delete Slide:** You can delete current slides.
- ▶ **Set Slide Format**
 - **Set Timer:** You can set timer for slide, text, picture and sound.
- ▶ **T9 Languages:** Select a T9 input mode.
- ▶ **Exit:** You can back to the Message menu.

! Note

If you select the photo on writing multimedia message, loading duration will take about 5 seconds. Please wait until the picture is uploaded before continuing.

Business Card *(Menu 2.7.3)*

This option allows you to make your own name card. Key in the Name, Mobile number, Office number, Fax number and E-mail address.

- ▶ **Edit:** Allows you to write a new message or edit the selected name card.

▶ Send via

- **Text Message:** Sends the selected name card by SMS.
- **Multimedia Message:** Sends the selected name card by MMS.
- ▶ **Delete:** Allows you to delete the selected name card.

Settings

Menu 2.8

Text Messages *(Menu 2.8.1)*

- ▶ **Message Center Number:** If you want to send the text message, you can receive the address of SMS center through this menu.
- ▶ **Email Gateway:** You can send the text message to Email Address via this gateway.
- ▶ **Message Subject:** Allows you to enter the subject.
- ▶ **Reply via Same Message Center:** When a message is sent, it allows the recipients to reply and charge the cost of the reply to your telephone bill.

Messaging

Note

The last 4 items (Message Types, Validity Period, Delivery Report, Reply Via Same Message Center) might not be visible dependent on SIM.

Multimedia Messages *(Menu 2.8.2)*

- ▶ **Priority:** You can set the priority of the message you choose.
- ▶ **Message Subject:** You can enter a MMS Subject when this menu is on.
- ▶ **Validity Period:** This network service allows you to set how long your a MMS messages will be stored at the message centre.
- ▶ **Delivery Report:** If it is set to **Yes** in this menu, you can check whether your message is sent successfully.
- ▶ **Auto Download:**
 - **Always On:** You can always receive multimedia messages automatically.
 - **Manual:** When you have multimedia message to download from network, you can be notified about that. And you can choose to receive it now or later.

If you want to receive it later, the notification message stored in inbox and you can check it later.

- **Home Network Only:** If you select home network only, you receive multimedia messages depends on home network.
- **Off:** You receive only notification message in the inbox and then you can check this notification.
- ▶ **Access Point:** Allows you to set the URL for several Carrier access points.
- ▶ **Permitted Message Types**
 - Personal: Personal message.
 - Advertisements: Commercial message.
 - Information: Necessary information.

Download Messages *(Menu 2.8.3)*

You can set the option whether you will receive the message or automatic downloads.

Info Messages *(Menu 2.8.4)*

Info service messages are text messages sent by the network to GSM phone users. They provide general information such as weather reports, traffic news, taxis, pharmacies, and stock prices.

Messaging

Each type of information is associated with a number, which can be obtained from the service provider. When you receive an info service message, a popup message will indicate a new message receipt or the info service message will be displayed directly. In standby mode, the following options are available when viewing the info service message.

- ▶ **Topics:** To create new topics, press the left soft key [**Select**] and then select the new topics menu by pressing the left soft key [**Select**].
- ▶ **Receive:** Enables or disables the reception of broadcast messages.
- ▶ **Alert:** Allows you to to be alerted to new messages.
- ▶ **Languages:** This option allows you to select the language preferred. The cell broadcast message will be displayed in the language selected.

Check Memory


Menu 2.9

You can check free space and memory usage of each repository. You can go to each repository menu.

Internet


You can access various WAP(Wireless Application Protocol) services such as banking, news, weather reports and flight information. These services are specially designed for mobile phones and they are maintained by the WAP service providers.

Check the availability of WAP services, pricing and tariffs with your network operator and/or the service provider whose service you wish to use. Service providers will also give you instructions on how to use their services.

To launch the browser in standby mode, press and hold down the  key.

Once connected, the homepage is displayed. All web content is determined by the service provider.

You can open any WWW page by entering its URL address.

To exit the browser at any time, press the  key. The idle screen is displayed.

Navigating with the WAP Browser

You can surf the Internet using either the phone keys or the WAP Browser menu.


Using the Phone Keys

When surfing the Internet, the phone keys function differently from the phone mode.

Key	Description
Up/down navigation key	Scroll each line of the content area

Using the WAP Browser Menu

There are various menu options available when surfing the Wireless Web.

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

GoRogers

Menu 3.1

Connect to a homepage. The homepage may be the site which is defined in the activated profile. It will be defined by the Service Provider if you have not defined it in the activated profile.

Access Point

Menu 3.2

A profile is the network information used to connect to the Internet.

The options are:

- ▶ **Homepage:** This setting allows you to enter the address (URL) of a site you want as a homepage. You do not need to type `http://` at the front of each URL as the WAP Browser will automatically add it.
- ▶ **Bearer:** You can set the bearer data service.
- ▶ **GPRS Settings:** The service settings are only available when GPRS is chosen as a bearer service.
 - **IP Address:** Input the IP address of the WAP gateway you access.
 - **APN:** Input the APN of the GPRS.
 - **User ID:** The users identify for your APN server.
 - **Password:** The password required by your APN server.
- ▶ **Connection Type:** The options for connection type are Temporary or Continuous and depend on the gateway you are using.

- **HTTP:** Connecting Clients to Server directly in HTTP.
- **Continuous:** A confirmed delivery mechanism but generates more network traffic.
- **Temporary:** A non-confirmed (connectionless) service.

▶ Proxy

- **IP Address:** Input the IP address of the Proxy server you access.
- **Port Number:** Input the Proxy Port.

▶ DNS settings

- **Primary Server:** Input the IP address of the primary DNS server you access.
- **Secondary Server:** Input the IP address of the secondary DNS server you access.

Cache Settings

Menu 3.3

The information or services you have accessed are stored in the cache memory of the phone.

Clear Cache (*Menu 3.3.1*)

Remove all contents saved in cache.

Internet

Allow Cache *(Menu 3.3.2)*

Set a value whether a connection attempt is made through cache or not.

Note

A cache is a buffer memory, which is used to store data temporarily.

Cookie Settings

Menu 3.4

The user information you have accessed is stored in the cookie.

- ▶ **Delete Cookies:** Remove all cookies.
- ▶ **Allow Cookies:** Set a value whether a connection attempt is made through a cookie or not.

Security Certificates

Menu 3.5

A list of the available certificates is shown.

Information

Menu 3.6

The WAP Browser version is displayed.

Games & Apps

Java is a technology developed by Sun Microsystems. Similar to the way you would download the Java Applet using the standard Netscape or MS Internet Explorer browsers, Java MIDlet can be downloaded using the WAP enabled phone. Depending on the service provider, all Java based programs such as Java games can be downloaded and run on a phone. Once downloaded, the Java program can be viewed within the Games & Apps menu where you can select, execute or delete. The Java program files saved in the phone are in .JAD and .JAR formats.

Note

The JAR file is a compressed format of the Java program and the JAD file is a description file that includes all detailed information. From the network, prior to download, you can view all detailed file descriptions from the JAD file.

Warning

Only J2ME (Java 2 Micro Edition) based programs will run in a phone environment. The J2SE (Java 2 Standard Edition) based programs will only run in a PC environment.

Download Games

Menu 4.1

Download a game from the carrier URL address.

Games & Apps

Menu 4.2

Main Screen, Java' main menu, has a Default Games folder already created, and adds it to the list when a new folder is created or downloaded games are stored.

Access Point

Menu 4.3

For further details, see page 43.

Information

Menu 4.4

Shows the memory allocation for several features. It also shows the maximum settings for certain applications. Once these maximums are reached, you cannot store any more data to memory.

The Information menu allows you to check the available memory capacity in a phone.

Memory Status *(Menu 4.4.1)*

Displays maximum memory capacity and total available memory information.

Java Version *(Menu 4.4.2)*

Displays current Java version.

Media Services

Games & Apps

Menu 5.1

For further details, see page 45.

Ringtones / Audio

Menu 5.2

Download Ring Tune *(Menu 5.2.1)*

For further details, see page 57 (Menu 9.1.1).

My Sounds *(Menu 5.2.2)*

The left soft key [**Options**] will bring up the following options.

▶ **Send via:**

- **Text Message:** A sound file can be sent via SMS.
- **Multimedia Message:** Downloaded Sound can be sent via MMS.

▶ **Set as Ringtone:** You can set the selected sound as ringtone.

▶ **Record Audio:** For further details, see page 50 (Menu 7.3.1).

! **Note**

Sounds supplied as default can only be used under the Set As Ring Tone mode.

Graphics

Menu 5.3

Allows you to download Ringtones and Audio (or Graphics) and shows what sound files (or graphics) you currently have.

The left soft key [**Options**] will bring up the following options.

▶ **View:** You can view selected graphics.

▶ **Send via:**

- **Multimedia Message:** Downloaded Picture can be sent via MMS.

▶ **Set as Wallpaper:** Currently selected Picture can be set as a Wallpaper.

! **Note**

The MMS Picture can't be set as wallpaper.

View Online Album

Menu 5.4

The Online Album is a space to keep the user's photos and MMS data(pictures). Also, you can also connect to the album on the Internet through the WAP browser.

Recent Calls

You can check the record of missed, received, and dialed calls only if the network supports the Calling Line Identification (CLI) within the service area.

The number and name (if available) are displayed together with the date and time at which the call was made. You can also view call times.

Missed Calls

Menu 6.1

This option lets you view the last 10 unanswered calls. You can also:

- View the number, if available, and call it or save it in the Address Book
- Enter a new name for the number and save both in the Address Book
- Send a message to this number
- Delete the call from the list

Dialed Calls

Menu 6.2

This option lets you view the last 20 outgoing calls (called or attempted).

You can also:

- View the number, if available, and call it or save it in the Address Book
- Enter new name for the number and save both in the Address Book
- Send a message to this number
- Delete the call from the list

Received Calls

Menu 6.3

This option lets you view the last 10 incoming calls. You can also:

- View the number, if available, and call it, or save it in the Address Book
- Enter a new name for the number and save both in the Address Book
- Send a message to this number
- Delete the call from the list

Delete Recent Calls

Menu 6.4

Allows you to delete **Missed Calls** and **Received Calls** lists. You can delete **Dialed Calls** and **All Calls** lists at one time.

Recent Calls

Call Duration

Menu 6.5

Allows you to view the duration of your incoming and outgoing calls. You can also reset the call times.

Tools

Alarm Clock

Menu 7.1

You can set up to 5 alarm clocks to go off at a specified time.

1. Select **On** and enter the alarm time you want.
2. Select the repeat period: **Once, Mon~Fri, Mon~Sat, Everyday.**
3. Select the alarm tone you want and press the left soft key **[OK]**.
4. Edit the alarm name and press the left soft key **[OK]**.





Calendar

Menu 7.2

You can make up to a maximum of 20 entries.

When you enter this menu a calendar will be displayed. Top of the screen indicates sections for date. Square cursor is used to locate a particular day. The under bar on the calendar indicates a schedule or memo on that day. This function helps to remind you of the schedule and memo. The phone will sound an alarm tone if it has been set for a specific note.

For changing the day, month, and year.

Key	Description
Up/down navigation key	Weekly
Left/right navigation key	Daily
 key/  key	Yearly
 key/  key	Monthly

- ▶ **View Daily Schedules:** Shows the note for the chosen day.
- ▶ **New Schedule:** Input the subject, the schedule time, the repeat, the alarm by pressing allowed keys.
- ▶ **All Schedules:** Shows the notes that are set for all days. Use up/down navigation keys to browse through the note lists.
- ▶ **Delete Old:** You can delete the past schedule that has been already notified you.
- ▶ **Delete All:** You can delete for the all note(s).
- ▶ **Go to Date:** Typing a date, you can go to the date directly.
- ▶ **Set Alarm Tone:** You choose a scheduler alarm tone on the list showing.


Tools

Voice Memo

Menu 7.3

The voice memo feature you to record up to 10 voice messages and each memo is up to 20 Seconds.

Record *(Menu 7.3.1)*

1. You can record voice memo in Voice recorder menu and also holding down  in the standby mode.
2. Once recording is started, the message Recording and the remaining time is displayed.
3. If you want to finish recording, press the left soft key **[Save]**.
4. Key in Voice memo title, press the left soft key **[OK]**.

View List *(Menu 7.3.2)*

The phone shows voice memo list. You can access the following submenu using the left soft key **[Options]**.

- ▶ **Play:** Allows you to play back all memos recorded, starting with the most recent memo. The screen displays the date and time when the memo was recorded.

- ▶ **Delete:** Allows you to delete a specific memo.
- ▶ **Record New:** Allows you to record a memo.
- ▶ **Rename:** Allows you to rename a specific memo.
- ▶ **Send via Multimedia Message:** Sends the selected voice memo by MMS.
- ▶ **Delete All:** Allows you to delete all memos.

Calculator


Menu 7.4


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

Using the Calculator

1. Enter the first number using the numeric keys.
2. Use the navigation keys to select a sign for calculation.

! Note

To include a decimal point, press the  key.

3. To calculate the result, press the left soft key **[Result]** or  key.

Tools

Notepad

Menu 7.5

You can make up to maximum 10 memos.

1. Select a Notepad entry you would like to use.
2. If it is empty, use the left soft key [**Write**] to add or change information.
3. Input the memo and then press the left soft key [**OK**]

World Clock

Menu 7.6

You can view the time of the world's major cities.

1. Scroll through the cities by pressing the left/right navigation key.
2. You can reset the clock to the current time of the city time you select by pressing the left soft key [**Set**].

Unit Converter

Menu 7.7

This menu lets you convert different units within a measurement category.

There are 4 measurements categories: **Length**, **Area**, **Weight** and **Volume**.

1. You can select one of four measurement by pressing left soft key [**Unit**].
2. Select the standard value of the unit by using left/right navigation key.
3. Select the unit you want to convert to by pressing up and down navigation.
4. Add a value by using the number pad. The unit will automatically be converted.

Infrared

Menu 7.8

This feature allows you to send or receive a data/fax through the infrared port. To use an infrared connection:

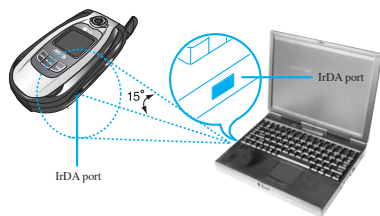
- Install the modem driver for receiving or sending the data/fax.
- Install the network dial-up software supplied by your service provider or fax application program for a fax call on your PC.

Tools

- Configure and activate an IrDA-compliant infrared port on your PC.
- Activate the infrared feature on the phone; the symbol appears on the right side at the bottom of the display.
- Dial the network service number given to you by the service provider.

If there is no communication between your phone and the IrDA-compliant device within 30 seconds after activation of the feature, it is automatically deactivated.

For further details, contact your service provider.



! PC Sync


PC Sync is a program for data exchange between PC and the phone by a data cable. Therefore, if you want to use this function, you have to use the software and USB data cable.

Address Book

You can store phone numbers and their corresponding names in the memory of your SIM card. In addition, you can store up to 250 numbers and names in the phone memory. The SIM card and phone memories, although physically separate, are used as if they were a single entity, called the Address Book.

Contacts

Menu 8.1

1. You can also scroll through the Address Book from the beginning, in idle mode with flip open, by pressing the down navigation key directly.
2. If you want to edit, delete, copy an entry, or to add the voice to one, select **[Options]**.
3. Once you have found the required entry, press the  to dial the number.
 - ▶ **View:** To view in detail the selected name.
 - ▶ **Delete:** You can delete an entry.
 - ▶ **New Message:** Allows you to write a text or multimedia message to the phone entry.
 - ▶ **Edit:** You can edit the name, mobile number, home number, office number, E-mail, group, picture by press the left soft key **[Select]**.
 - ▶ **Copy to SIM:** You can copy an entry from Phone to SIM.

- ▶ **Copy to Phone:** You can copy an entry from SIM to phone.
- ▶ **Assign Speed Dial:** You can make a one touch dial by assigning a speed dial. For further details, see page 54.
- ▶ **Set Primary Number:** You can select the main number out of your mobile, home or office numbers. Choose the one that is most often used. The main number will be displayed first, if you set this.
- ▶ **View Caller Groups:** For further details, see page 54.

New Contact

Menu 8.2

You can add an address book entry by using this function. Phone memory capacity is 250 entries. SIM card memory capacity depends on the cellular service provider. In the phone memory, the character limit is 40 characters, as well as saving characters in the SIM card. The number of characters that can be saved is dependent on the SIM.

1. You can predetermine which memory you wish for new contacts are to be saved in. To select the memory, go to Set Save Location (Menu 8.7.1).

Address Book

• Adding new entries into SIM memory



You can enter a name and number, and select the required group. (Depends on the SIM)

• Adding new entries into phone memory

You can enter a name, numbers, E-mail address and memo, and select the required group.

Speed Dial List

Menu 8.3

You can assign any of the keys,  to  with a name list entry. You can call directly by pressing this key for 2-3 seconds.

1. If you want to add a number to speed dial location, select **<Empty>**. Then, you can search the name from the Address Book.
2. Once a speed dial location is selected, you can change or delete the name. In addition, you can call this number or write a text or multimedia message.

Caller Groups

Menu 8.4

1. You can set the phone to ring in a specific way and display a preselected graphic icon when a particular person calls you

2. Every Group list will be displayed: **Family, Friends, Colleague, VIP, Group 1, Group 2, Group 3.**

3. Select the Group name that you want to manage by pressing the left soft key [**Options**].

4. You will see the following submenus under the predefined groups.

- ▶ **View Members:** Allows you to see the member list in the group.
- ▶ **Group Ring Tone:** Allows you to select the ring tone to be used when you receive a voice phone call from a person in the group.
- ▶ **Group Icon:** Allows you to select the graphic icon to be displayed when you receive a call from a person in the group.
- ▶ **Add Member:** Allows you to add a member to the group.
- ▶ **Remove Member:** Allows you to delete a member in the group.
- ▶ **Rename:** Allows you to assign a name to the group.
- ▶ **Remove All:** Allows you to delete all the members in the group.

Copy All Contacts

Menu 8.5

You can copy or move entries from the SIM card memory to the phone memory and vice versa.

SIM to Phone (Menu 8.5.1)

You can copy the entry from the SIM card to phone memory.

Phone to SIM (Menu 8.5.2)

You can copy the entry from the phone memory to the SIM card.

The following options are available:

- ▶ **Copying Phonebook:** When copying, Original Dial Number is kept.
- ▶ **Moving Phonebook:** When copying, Original Dial Number will be erased.

Delete All Contacts

Menu 8.6

You can delete all entries in the **SIM** and **Phone**.

Press the  key to return to the standby mode.

Settings

Menu 8.7

Set Save Location (Menu 8.7.1)

- ▶ If you select **Always Ask** when adding entry, the phone will ask where to store.
- ▶ If you select **SIM** or **Phone**, the phone will store an entry to the SIM or the phone.

View Options (Menu 8.7.2)

- ▶ **Names Only:** The phone will search an entry by Name, display up to 6 picture list.
- ▶ **Name and Number:** The phone will search an entry by the Name and the Number, display up to 4 picture list.


Address Book

Information

Menu 8.8

Service Dial Number (*Menu 8.8.1*)

You can view the list of Service Dialing Numbers (SDN) assigned by your network provider (If supported by the SIM card). Such numbers include the emergency, directory assistance and voice mail numbers.

1. Select the Service Dial Number option.
2. The names of the available services will be shown.
3. Use the up/down navigation keys to select a service.
Press the  key.

Check Memory (*Menu 8.8.2*)

You can check how many names and numbers are stored in the Address Book (SIM card and phone memories).

My Mobile Number (*Menu 8.8.3*)

Allows you to display your phone number in the SIM card.

Settings

Sounds

Menu 9.1

Download Ring Tune *(Menu 9.1.1)*

Allows you to download ring tunes.

Ringtones *(Menu 9.1.2)*

Shows your list of pre-loaded and downloaded ringtones. You can also play from your ringtone list.

Volume *(Menu 9.1.3)*

Allows you to control the ringer, key tone, earpiece, headset and handsfree volume.

Ring Alert Type *(Menu 9.1.4)*

Allows you to customize the ringer/vibration combination.

Message Alert Tones *(Menu 9.1.5)*

Allows you to choose from 4 message alert tones.

Key Tones *(Menu 9.1.6)*

This menu option allows you to select a tone that the phone sounds when you press a key.

Voice Memo *(Menu 9.1.7)*

See page 50 for further details.

Display

Menu 9.2

Wallpaper *(Menu 9.2.1)*

This menu allows you to change the background pictures of the Internal and External display. There are 2 folders that include graphics and pictures originated from built-in camera or web sites.

Backlight Timer *(Menu 9.2.2)*

You can set the light-up duration of the internal and external display.

Languages *(Menu 9.2.3)*

You can change the language for the display texts in your phone.

Menu Style *(Menu 9.2.4)*

You can change the top menu styles.

Settings

Banner (Menu 9.2.5)

If you select **On**, you can edit the text which is displayed in standby mode.

Theme (Menu 9.2.6)

You can choose 3 kinds of color schemes.

Information Box (Menu 9.2.7)

You can preview the current state of the selected menu before the menu is selected. The information is shown at bottom of the display.

Date & Time

Menu 9.3

You can set functions relating to the date and time.

Set Date (Menu 9.3.1)

You can enter the current date.

Date Format (Menu 9.3.2)

You can set the Date format such as YYYY/MM/DD, DD/MM/YYYY, MM/DD/YYYY.
(D: Day / M: Month / Y: Year)

Set Time (Menu 9.3.3)

You can enter the current time.

Time Format (Menu 9.3.4)

You can set the time format between 24-Hour and 12-Hour.

Auto Update (Menu 9.3.5)

Select **On** to set the phone to automatically update the time and date according to the current time zone.

Call

Menu 9.4

Allows you to customize certain calling features.

Call Forwarding (Menu 9.4.1)



When this network service is activated, you can direct your incoming calls to another number, for example, to your voice mailbox number. For details, contact your service provider.

The following options are available:

- ▶ **All Voice Calls:** Diverts voice calls unconditionally.
- ▶ **All Data Calls:** Diverts to a number with a PC connection unconditionally.

- ▶ **All Fax Calls:** Diverts to a number with a fax connection unconditionally.
 - **Activate:** Activates the corresponding service.
 - **To Voice Mail Center:** Forwards to voice mail center. This function does not include All Data Calls and All Fax Calls menus.
 - **To Other Number:** Inputs the number for diverting.
 - **To Favorite Number:** You can check recent five diverted numbers.
 - **Cancel:** Cancels the corresponding service.
 - **View Status:** Checks the status of the service.
- ▶ **Cancel All:** Cancels all call divert service.

Answer Mode *(Menu 9.4.2)*

- ▶ **Flip Open:** This option allows you to answer a call simply by opening the flip.
- ▶ **Any Key:** You can answer an incoming call by pressing any key, except the  key.
- ▶ **Send Key Only:** You can answer an incoming call by only pressing the  key.

Send My Number *(Menu 9.4.3)*

This network service allows you to set your phone number to be displayed (**On**) or hidden (**Off**) from the person to whom you are calling. Select **Set by Network** to reset the phone to the setting that you have agreed upon with your service provider.

Call Waiting *(Menu 9.4.4)*

The network will notify you of a new incoming call while you have a call in progress. Select **Active** to request the network to activate call waiting, **Cancel** to request the network to deactivate call waiting, or **View Status**, to check if the function is active or not.

Minute Minder *(Menu 9.4.5)*

This option allows you to specify whether the phone must beep every minute during an outgoing call to keep you informed of the length of the call.

Auto Redial *(Menu 9.4.6)*

Select **On**, and your phone will make a maximum of three attempts to connect the call after an unsuccessful call attempt.

Settings

Select Line *(Menu 9.4.7)*

This setting is shown only if the SIM card supports two subscriber numbers, that is, two phone lines. Select which phone line (**Line 1** or **Line 2**) you want to use for making calls and sending short messages. Calls on both lines can be answered irrespective of the selected line.

Note

You will not be able to make calls if you select **Line 2** and have not subscribed to this network service.

Send DTMF Tones *(Menu 9.4.8)*

You can send the DTMF (dual tone multi-frequency) tones of the number on the display during a call.

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

Security

Menu 9.5

Various codes and passwords are used to protect the features of your phone. They are described in the following sections.

Request PIN Code *(Menu 9.5.1)*

When the PIN code request feature is enabled, you must enter your PIN each time you switch the phone on. Consequently, any person who does not have your PIN cannot use your phone without your approval.

Note

Before disabling the PIN code request feature, you must enter your PIN

The following options are available:

- ▶ **Enable:** You must enter the PIN each time the phone is switched on.
- ▶ **Disable:** The phone connects directly to the network when you switch it on.

Phone Lock *(Menu 9.5.2)*

You can use security code to avoid unauthorized use of the phone. Whenever you power on the phone, the phone will request the security code if you set phone lock to **When Power On**. If you want to lock your phone after power on, set Phone Lock to **Immediately**.

Call Barring Service *(Menu 9.5.3)*

Call barring allows you to restrict from making and receiving calls with your phone. For this function, you need the barring password, which you can obtain from your service provider.

The following options are available:

- ▶ **All Outgoing Calls:** Calls cannot be made.
- ▶ **Outgoing International:** International calls cannot be made.
- ▶ **Cancel All Barrings:** All call barring settings are deactivated; calls can be made and received normally.
- ▶ **Change Password:** You can set and change the call barring password obtained from your service provider using this option. You must enter the current password before you can specify a new one. Once you have entered a new password, you are asked to confirm it by entering it again.

Note

To use Call Barring service, you must input the network password. When calls are barred, calls may be possible to certain emergency numbers in some networks.

Fixed Dial Number *(Menu 9.5.4)*

Allows you to restrict your outgoing calls to selected phone numbers, if this function is supported by your SIM card. The PIN2 code is required.

The following options are available:

- ▶ **Enable:** You can only call phone numbers stored in the Address Book. You must enter your PIN2.
- ▶ **Disable:** You can call any number.
- ▶ **Number List:** You can view the number list saved as fixed dial number.

Note

Not all SIM cards have a PIN2. If your SIM card does not, this menu option is not displayed.

Change Codes *(Menu 9.5.5)*

The Change codes feature allows you to change your current password to a new one. You must enter the current password before you can specify a new one.

You can change the access codes: **Security Code, PIN1 Code, PIN2 Code**

Settings

Note

PIN: Personal Identification Number.

Connection

Menu 9.6

Depending on ENS (Enhanced Network Selection) function and “PLMN Mode” in SIM, Network Selection menu appears or disappears.

Network (*Menu 9.6.1*)

The Network Selection feature allows you to indicate how the network you will use is selected when roaming outside your home area. Options are: Automatic, Manual, and Preferred.

Note

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

- ▶ **Automatic:** Allows you to set the phone to automatically search for and select one of the cellular networks available in your area. The phone will be set to **Automatic** by default.

- ▶ **Manual:** Allows you to select the desired network manually from a list of networks. If the connection to the manually selected network is lost, the phone will sound an error tone and ask you to select a network again. The selected network must have a roaming agreement with your home network, that is, the operator whose SIM card is in your phone. The phone lets you select another network if the phone fails to access the selected network. If you switch off the phone, the phone will be reset to **Automatic**.
- ▶ **Preferred:** You can set a list of preferred networks the handset should attempt to register with first, before attempting to register to any other networks. This list is created from the handset’s predefined list of known networks.

Change Frequency Band (*Menu 9.6.2*)

When the America (850/1900) option is selected the device can be used in the Canada and the United States, and when the Europe (1800) option is chosen the device can be used in European countries. This phone does not automatically search and set the GSM frequency. Instead the user must manually set the frequency band based on his/her location.

Settings

The default setting is “**America (850/1900)**” so in order to switch to the European frequency, simply select the “**Europe (1800)**” option from the World Phone Setting menu. After the selection, turn the phone off and on again to begin using the new frequency setting. When traveling to different parts of the world, you must always set the World Phone Setting to the correct frequency band.

GPRS Attach (Menu 9.6.3)

If you select **Power On** and you are in a network that supports packet data, the phone registers to the GPRS network and sending short messages will be done via GPRS. Also, starting an active packet data connection, for example, to send and receive e-mail, is quicker.

If you select **When Needed**, the phone will use a packet data connection only if you start an application or action that needs it. The GPRS connection is closed after it is not used by any application.

Note

If there is no GPRS coverage and you have chosen **Power on**, the phone will periodically try to establish a packet data connection.

Reset Default

Menu 9.7

You can easily reset your phone to its default configuration. To do so, proceed, as follows.

1. Select the Reset Settings menu option.
2. Enter the 4-digit phone password.

Note

The password is preset to **0000**.

Q&A

Please check to see if any problems you have encountered with the phone are described in this section before taking the phone in for a service or calling a service engineer.

Q How do I view the list of outgoing calls, incoming calls and missed calls?

A Press the  key.

Q How do I clear all call history?

A Press the left soft key **[Menu]** and then the   key.

Q Why is the connection inconsistent or not audible in certain areas?

A When frequency environment is unstable in a certain area, connection may be inconsistent and not audible. Relocate to another area and try again.

Q Why does the connection abruptly disconnect even when the connection is established?

A When frequency is unstable or weak or if there are too many users, connection may be cut off even after it was established. Please try again later or attempt after relocating to other areas.

Q Why does the LCD not turn on?

A Remove the battery and turn on the power after placing it back on. If there is no change, fully charge the battery and try again.

Q Why is there an echo when a connection is made with certain telephones in a certain area?

A This is called the 'Echo Phenomenon', where it occurs if connection volume is too high or caused by special properties (semi electronic telephone exchange) of the equipment on the other end.

Q Why does the phone heat up?

A The phone may get hot when there is a very long call duration or when games are played or even when surfing the Internet for a long time. This has no effect upon the life of the product or performance.

Q&A

Q Why does the battery life get shorter in standby mode?

A The battery is worn out. As time passes, the battery life gradually becomes shorter. If the battery lasts about half the amount of time as when first purchased, it's time to purchase a new battery.

Q Why does the battery run out so quickly during normal use?

A It is due to the user environment or a large number of calls or weak signal.

Q Why is no number dialed when you recall an Address Book entry?

A Check that the number has been stored correctly by using the Address book Search feature. Re-store them, if necessary.

Q Why can't my correspondent reach me?

A Is your phone switched on (⏻ pressed for more than three seconds)?
Are you accessing the right cellular network? Or, you may have set an incoming call barring option.

Q I cannot find the lock, PIN, or PUK code. What is my password?

A The default lock code is '0000'. If you forget or lose the lock code, contact your phone dealer. If you forget or lose a PIN or PUK code, or if you have not received such a code, contact your network service provider.

Safety Guidelines

TIA Safety Information

Provided herein is the complete TIA Safety Information for Wireless Handheld phones. Inclusion of the text covering Pacemakers, Hearing Aids, and Other Medical Devices is required in the owner's manual for CTIA Certification. Use of the remaining TIA language is encouraged when appropriate.

Exposure to Radio Frequency Signal

Your wireless handheld portable telephone is a lowpower radio transmitter and receiver. When it is ON, it receives and also sends out radio frequency (RF) signals.

In August, 1996, the Federal Communications Commissions (FCC) adopted RF exposure guidelines with safety levels for handheld wireless phones. Those guidelines are consistent with the safety standards previously set by both U.S. and international standards bodies:

ANSI C95.1 (1992) *

NCRP Report 86 (1986)

ICNIRP (1996)

Those standards were based on comprehensive and periodic evaluations of the relevant scientific literature. For example, over 120 scientists, engineers, and physicians from universities, government health agencies, and industry reviewed the available body of research to develop the ANSI Standard (C95.1).

*American National Standards Institute; National Council on Radiation Protection and Measurements; International Commission on Non- Ionizing Radiation Protection

The design of your phone complies with the FCC guidelines (and those standards).

Antenna Care

Use only the supplied or an approved replacement antenna. Unauthorized antennas, modifications, or attachments could damage the phone and may violate FCC regulations.

Phone Operation

NORMAL POSITION: Hold the phone as you would any other telephone with the antenna

Safety Guidelines

pointed up and over your shoulder.

Tips on Efficient Operation

For your phone to operate most efficiently:

- ▶ Do not touch the antenna unnecessarily when the phone is in use. Contact with the antenna affects call quality and may cause the phone to operate at a higher power level than otherwise needed.

Driving

Check the laws and regulations on the use of wireless phones in the areas where you drive. Always obey them. Also, if using your phone while driving, please:

- ▶ Give full attention to driving - driving safely is your first responsibility;
- ▶ Use hands-free operation, if available;
- ▶ Pull off the road and park before making or answering a call if driving conditions so require.

Electronic Devices

Most modern electronic equipment is shielded from RF signals. However, certain electronic equipment may not be shielded against the RF signals from your wireless phone.

Pacemakers

The Health Industry Manufacturers Association recommends that a minimum separation of six (6') inches be maintained between a handheld wireless phone and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research by and recommendations of Wireless Technology Research.

Persons with pacemakers:

- ▶ Should ALWAYS keep the phone more than six inches from their pacemaker when the phone is turned ON;
- ▶ Should not carry the phone in a breast pocket.
- ▶ Should use the ear opposite the pacemaker to minimize the potential for interference.

Safety Guidelines

- ▶ If you have any reason to suspect that interference is taking place, turn your phone OFF immediately.

Hearing Aids

Some digital wireless phones may interfere with some hearing aids. In the event of such interference, you may want to consult your service provider.

Other Medical Devices

If you use any other personal medical device, consult the manufacturer of your device to determine if they are adequately shielded from external RF energy. Your physician may be able to assist you in obtaining this information.

Turn your phone OFF in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.

Health Care Facilities

Turn your phone OFF in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities may use 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

Turn your phone OFF in any facility where posted notices so require.

Aircraft

FCC regulations prohibit using your phone while in the air. Turn your phone OFF before boarding an aircraft.

Blasting Areas

To avoid interfering with blasting operations, turn your phone OFF when in a 'blasting areas or in areas posted: 'Turn off two-way radio'. Obey all signs and instructions.

Safety Guidelines

Potentially Explosive Atmosphere

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

Areas with a potentially explosive atmosphere are often, but not always, marked clearly. Potential areas may include: fueling areas (such as gasoline stations); below deck on boats; fuel or 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.

For Vehicles Equipped with an Air Bag

An air bag inflates with great force. DO NOT place objects, including either installed or portable wireless equipment, in the area over the air bag or in the air bag deployment area. If in-vehicle wireless equipment is improperly installed and the air bag inflates, serious injury could result.

Safety Information

Please read and observe the following information for safe and proper use of your phone and to prevent damage. Also, keep the user guide in an accessible place at all the times after reading it.

Charger and Adapter Safety

- ▶ The charger and adapter are intended for indoor use only.

Battery Information and Care

- ▶ Please dispose of your battery properly or take it to your local wireless carrier for recycling.
- ▶ The battery does not need to be fully discharged before recharging.
- ▶ Use only LG-approved chargers specific to your phone model since they are designed to maximize battery life.
- ▶ Do not disassemble or impact the battery as it may cause electric shock, short-circuit, and fire. Store the battery in a place out of reach of children.
- ▶ Keep the battery's metal contacts clean.

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- ▶ Replace the battery when it no longer provides acceptable performance. The battery can be recharged several hundred times before replacement.
- ▶ Recharge the battery after long periods of non-use to maximize battery life.
- ▶ Battery life will vary due to usage patterns and environmental conditions.
- ▶ Use of extended backlighting, MEdia Net Browsing, and data connectivity kits affect battery life and talk/standby times.
- ▶ The self-protection function of the battery cuts the power of the phone when its operation is in an abnormal state. In this case, remove the battery from the phone, reinstall it, and turn the phone on.
- ▶ When using the power plug, ensure that it is firmly connected. If it is not, it may cause excessive heat or fire.
- ▶ If you put your phone in a pocket or bag without covering the receptacle of the phone (power plug pin), metallic articles (such as a coin, paperclip or pen) may short-circuit the phone. Always cover the receptacle when not in use.
- ▶ Do not short-circuit the battery. Metallic articles such as a coin, paperclip or pen in your pocket or bag may short-circuit the + and – terminals of the battery (metal strips on the battery) upon moving. Short-circuit of the terminal may damage the battery and cause an explosion.

General Notice

Explosion, Shock, and Fire Hazards

- ▶ Do not put your phone in a place subject to excessive dust and keep the minimum required distance between the power cord and heat sources.
- ▶ Unplug the power cord prior to cleaning your phone, and clean the power plug pin when it is dirty.
- ▶ Using a damaged battery or placing a battery in your mouth may cause serious injury.
- ▶ Do not place items containing magnetic components such as a credit card, phone card, bank book or subway ticket near your phone. The magnetism of the phone may damage the data stored in the magnetic strip.

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- ▶ Talking on your phone for a long period of time may reduce call quality due to heat generated during use.
- ▶ When the phone is not used for a long period time, store it in a safe place with the power cord unplugged.
- ▶ Using the phone in proximity to receiving equipment (i.e., TV or radio) may cause interference to the phone.
- ▶ Do not use the phone if the antenna is damaged. If a damaged antenna contacts skin, it may cause a slight burn. Please contact an LG Authorized Service Center to replace the damaged antenna.
- ▶ Do not immerse your phone in water. If this happens, turn it off immediately and remove the battery. If the phone does not work, take it to an LG Authorized Service Center.
- ▶ The power cord on this product will expose you to lead, a chemical known to the State of California to cause (cancer) birth defects or other reproductive harm. Wash hands after handling.
- ▶ Do not paint your phone.
- ▶ The data saved in your phone might be deleted due to careless use, repair of the phone, or upgrade of the software. Please backup your important phone numbers. (Ring tones, text messages, voice messages, pictures, and videos could also be deleted.) The manufacturer is not liable for damage due to the loss of data.
- ▶ When you use the phone in public places, set the ring tone to vibration so as not to disturb others.
- ▶ Do not turn your phone on or off when putting it in your ear.

FDA Consumer Update

The U.S. Food and Drug Administration Center for Devices and Radiological Health Consumer Update on Mobile Phones.

1. Do wireless phones pose a health hazard?

The available scientific evidence does not show that any health problems are associated with using wireless phones. There is no proof, however, that wireless phones are absolutely safe. Wireless phones emit low levels of radiofrequency energy (RF) in the microwave range while being used. They

Safety Guidelines

also emit very low levels of RF when in the standby 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.

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

Under the law, the FDA does not review the safety of radiation-emitting consumer products such as wireless phones before they can be sold, as it does with new drugs or medical devices. However, the agency has authority to take action if wireless phones are shown to emit radiofrequency energy (RF) at a level that is hazardous to the user. In such a case, the 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, the 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.

The 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

Safety Guidelines

- ▶ Environmental Protection Agency
- ▶ Occupational Safety and Health Administration (Administración de la seguridad y salud laborales)
- ▶ Occupational Safety and Health Administration
- ▶ National Telecommunications and Information Administration

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

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

The 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

subject of the safety questions discussed in this document.

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

The term 'wireless phone' refers here to handheld wireless phones with built-in antennas, often called 'cell', 'mobile', or 'PCS' phones. These types of wireless phones can expose the user to measurable radiofrequency energy (RF) because of the short distance between the phone and the user's head.

These RF exposures are limited by FCC safety guidelines that were developed with the advice of the 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 far below the FCC safety limits.

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

The research done thus far has produced conflicting results, and many studies have suffered from flaws in their research methods. Animal experiments investigating the effects of radiofrequency energy (RF) exposures characteristic of wireless phones have yielded conflicting results that often cannot be repeated in other laboratories. A few animal studies, however, have suggested that low levels of RF could accelerate the development of cancer in laboratory animals. However, many of the studies that showed increased tumor development used animals that had been genetically engineered or treated with cancer causing chemicals so as to be pre-disposed to develop cancer in the absence of RF exposure. Other studies exposed the animals to RF for up to 22 hours per day. These conditions are not similar to the conditions under which people use wireless phones, so we don't know with certainty what the results of such studies mean for human health. Three large epidemiology studies have been published since December 2000. Between them, the studies investigated any possible association between the use of wireless phones and primary

brain cancer, glioma, meningioma, or acoustic neuroma, tumors of the brain or salivary gland, leukemia, or other cancers. None of the studies demonstrated the existence of any harmful health effects from wireless phone RF exposures. However, none of the studies can answer questions about long-term exposures, since the average period of phone use in these studies was around three years.

5. 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

Safety Guidelines

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.

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

The FDA is working with the U.S. National Toxicology Program and with groups of investigators around the world to ensure that high priority animal studies are conducted to address important questions about the effects of exposure to radiofrequency energy (RF).¹ The 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. The FDA and the Cellular Telecommunications & Internet Association (CTIA) have a formal Cooperative Research and Development Agreement (CRADA) to do research on wireless phone safety. The FDA provides the scientific oversight, obtaining input from experts in government, industry, and academic organizations. CTIA-funded research is conducted through contracts with 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.

7. How can I find out how much radio frequency energy exposure I can get by using my wireless phone?

All phones sold in the United States must comply with Federal Communications Commission (FCC) guidelines that limit radio frequency energy (RF) exposures. The FCC established these guidelines in consultation with the FDA and the other federal health and safety agencies. The FCC limit for RF

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exposure from wireless telephones is set at a Specific Absorption Rate (SAR) of 1.6 watts per kilogram (1.6 W/kg). The FCC limit is consistent with the safety standards developed by the Institute of Electrical and Electronic Engineering (IEEE) and the National Council on Radiation Protection and Measurement. The exposure limit takes into consideration the body's ability to remove heat from the tissues that absorb energy from the wireless phone and is set well below levels known to have effects. Manufacturers of wireless phones must report the RF exposure level for each model of phone to the FCC. The FCC website (<http://www.fcc.gov/oet/rfsafety>) gives directions for locating the FCC identification number on your phone so you can find your phone's RF exposure level in the online listing.

8. What has the FDA done to measure the radio frequency energy coming from wireless phones?

The Institute of Electrical and Electronic Engineers (IEEE) is developing a technical standard for measuring the radio frequency energy (RF) exposure from wireless phones and other wireless handsets

with the participation and leadership of FDA scientists and engineers. The standard, 'Recommended Practice for Determining the Spatial-Peak Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices: Experimental Techniques,' sets forth the first consistent test methodology for measuring the rate at which RF is deposited in the heads of wireless phone users. The test method uses a tissuesimulating model of the human head. Standardized SAR test methodology is expected to greatly improve the consistency of measurements made at different laboratories on the same phone. SAR is the measurement of the amount of energy absorbed in tissue, either by the whole body or a small part of the body. It is measured in watts/kg (or milliwatts/g) of matter. This measurement is used to determine whether a wireless phone complies with safety guidelines.

9. What steps can I take to reduce my exposure to radiofrequency energy from my wireless phone?

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

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very small. But if you are concerned about avoiding even potential risks, you can take a few simple steps to minimize your exposure to radiofrequency energy (RF). Since time is a key factor in how much exposure a person receives, reducing the amount of time spent using a wireless phone will reduce RF exposure. If you must conduct extended conversations by wireless phone every day, you could place more distance between your body and the source of the RF, since the exposure level drops off dramatically with distance. For example, you could use a headset and carry the wireless phone away from your body or use a wireless phone connected to a remote antenna. Again, the scientific data do not demonstrate that wireless phones are harmful. But if you are concerned about the RF exposure from these products, you can use measures like those described above to reduce your RF exposure from wireless phone use.

10. What about children using wireless phones?

The scientific evidence does not show a danger to users of wireless phones, including children and teenagers. If you want to take steps to lower

exposure to radiofrequency energy (RF), the measures described above would apply to children and teenagers using wireless phones. Reducing the time of wireless phone use and increasing the distance between the user and the RF source will reduce RF exposure. Some groups sponsored by other national governments have advised that children be discouraged from using wireless phones at all. For example, the government in the United Kingdom distributed leaflets containing such a recommendation in December 2000. They noted that no evidence exists that using a wireless phone causes brain tumors or other ill effects. Their recommendation to limit wireless phone use by children was strictly precautionary; it was not based on scientific evidence that any health hazard exists.

11. What about wireless phone interference with medical equipment?

Radio frequency energy (RF) from wireless phones can interact with some electronic devices. For this reason, the FDA helped develop a detailed test method to measure electromagnetic interference

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(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 the 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. The 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. The FDA continues to monitor the use of wireless phones for possible interactions with other medical devices. Should harmful interference

be found to occur, the FDA will conduct testing to assess the interference and work to resolve the problem

12. Where can I find additional information?

For additional information, please refer to the following resources:

- FDA web page on wireless phones (<http://www.fda.gov/cdrh/phones/index.html>)
- Federal Communications Commission (FCC) RF Safety Program (<http://www.fcc.gov/oet/rfsafety>)
- International Commission on Non-Ionizing Radiation Protection (<http://www.icnirp.de>)
- World Health Organization (WHO) International EMF Project (<http://www.who.int/emf>)
- National Radiological Protection Board (UK) (<http://www.nrpb.org.uk/>)

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Consumer Information on SAR (Specific Absorption Rate)

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 (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 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, or SAR. The SAR limit set by the FCC is 1.6W/kg. * Tests for SAR 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 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. Because the phone is designed to operate at multiple power levels 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 phone model 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 when tested for use at the ear is 0.98 W/kg and when worn on the body, as described in this user's manual, is 1.22 W/kg. (Body-worn measurements differ among phones models, depending upon available accessories and FCC requirements.) While there may be differences between SAR levels of various phones and at various positions, they all meet the government requirement for safe exposure.

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The FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RF emission 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 BEJCE500.

Additional information on Specific Absorption Rates (SAR) can be found on the Cellular Telecommunications Industry Association (CTIA) website at <http://www.wow-com.com>

* In the United States 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.

Glossary

To help you understand the main technical terms and abbreviations used in this booklet and take full advantage of the feature on your mobile phone, here are a few definitions..

Call Barring

Ability to restrict outgoing and incoming calls.

Call Divert

Ability to reroute calls to another number.

Call Waiting

Ability to inform users that they have an incoming call when engaged on another call.

GPRS (General Packet Radio Service)

GPRS guaranties continuous connection to the Internet for mobile phone and computer users. It is based on the Global System for Mobile Communication (GSM) circuit-switched cellular phone connections and the Short Message Service (SMS).

GSM (Global System for Mobile Communication)

International standard for cellular communication, guaranteeing compatibility between the various network operators. GSM covers most European countries and many other parts of the world.

Java

Programming language generating applications that can run on all hardware platforms, whether small, medium or large, without modification. It has been promoted for and geared heavily to the Web, both for public Web sites and Intranets. When a Java program runs from a Web page, it is called a Java applet. When it is run on a mobile phone or pager, it is called a MIDlet.

Line Identification Services (Caller ID)

Service allowing subscribers to view or block the telephone numbers of callers.

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Phone Password

Security code used to unlock the phone when you have selected the option to lock it automatically each time it switches on.

Roaming

Use of your phone when you are outside your home area (when traveling for example).

SIM (Subscriber Identification Module)

Card containing a chip with all the information required to operate the phone (network and memory information, as well as the subscriber's personal data). The SIM card fits into a small slot on the back of the phone and is protected by the battery.

Patent Information

This product was manufactured under one or more of the following U.S.

patents: 5276765 5749067 6061647



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