MG230d
User manual

(Draft)

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 in adequately shielded electronic equipment. You should consult with manufacturers of any personal medical devices such as pacemakers and hearing aides to determine if they are susceptible to interference from your mobile phone.

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 78 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 come into contact with the battery. There is a risk of this causing a fire.

▶ Store the battery in a place out of reach of children.

▶ Be careful that children do not swallow any parts such as rubber plugs (earphone, connection parts of the phone, etc.). 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.

▶ 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.

FCC RF Exposure Information

WARNING! Read this information before operating the phone.

In August 1996, the Federal Communications (FCC) of he 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 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(1.5cm) 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 (20cm) 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.

Part 15.21 statement

" Change or Modifications that are not expressly approved by the manufacturer could void

the user's authority to operate the equipment. "

Part 15.105 statement

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a

residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used

in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. if this

equipment does cause harmful interference or television reception, which can be determined by

turning the equipment off and on, the user is encouraged to try to correct the interference by one or

more of the following measures:

- Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to

which the receiver is connected

- Consult the dealer or an experienced radio/TV technician for help.

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.

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Menu Tree

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Messaging

New Message Menu 1.1

Text *(Menu 1.1.1)*

You can write and edit text messages of up to 918 characters.

1. Type in a message using key presses. For details on how to enter text, refer to page 21 (**Entering Text**).

2. After completing the message select the required option by pressing the right soft key [**Options**].

The following options are available.

▶ **Save To Drafts:** Save the message so that it can be sent later.

▶ **Set T9:** Choose between English or Spanish T9 language. For details on how to enter text, refer to page 22 (Using the T9 Mode).

▶ **Clear Text:** Deletes the written message.

▶ **Cancel:** Exit the text editor.

The following options are available. (Press the left soft key [Insert])

▶ **Symbol:** Attach special characters.

▶ **Picture:** Send and receive text messages that contain pictures, known as Enhanced Messaging Service. Several preset pictures are available in the phone and they can be replaced with new ones received from other sources.

▶ **Animation:** Attaching an animation in a message can be done through EMS(Enhanced Messaging Service).

▶ **Sound:** Attach sounds that are available for short message.

▶ **Text Templates:** Use the text templates already set in the phone.

▶ **Contact:** Attach a phone number.

▶ **Business Card:** Attach your name card.

Multimedia *(Menu 1.1.2)*

The following options are available.

You can write and edit multimedia messages, checking message size.

1. Enter the **Messaging** menu by pressing the ⌁ [OK].

2. If you want to write a multimedia message, select Multimedia.

3. You can create a new message or choose one of the multimedia message templates already made.

4. Press **Insert** to add Symbol, Graphic, Sound, New Slide, Text Templates, Contact 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 **To Drafts** or **As Template**.

▶ **Move To Slide:** You can move to previous or next slide.

▶ **Delete Slide:** You can delete current slide.

▶ **Delete Media:** You can deletes the current media.

▶ **Set timer:** You can set timer for slide, text, picture and sound.

▶ **Set T9:** Select a T9 input mode.

▶ **Cancel:** You can back to the Message menu.

ⓘ Note
If you select the photo on writing multimedia message, loading duration will take about 5 seconds. At that time, you can't activate any key during loading time. After that time, it is available to write multimedia message.

E-mail *(Menu 1.1.3)*

▶ **Insert:** Input Text Templates, Phone Number and Symbol in the field.

▶ **Attach:** You can attach your desired graphic and ring tone/ audio files to the email.

▶ **Preview**

▶ **Save to Drafts:** You can save the created email as draft.

▶ **Edit Subject:** You can edit the subject.

▶ **Set T9:** You can select a T9 input mode.

▶ **Clear Text:** Deletes the written message.

▶ **Cancel:** To exit the application menu.

Inbox   *Menu 1.2*

You will be alerted when you have received messages. They will be stored in the Inbox. In the Inbox, you can identify each message by icons. For detail, see the icon directive below.

If the phone has 'no space for message', you can make space in each repository by deleting messages, media and applications.

▶ **Delete:** Deletes the selected message from the Inbox.

▶ **Forward:** Forwards a received message to other recipients. After recipients are entered, the message can be forwarded.

▶ **Extract:** Extract picture, sound, text webpage and email address from the message.

▶ **Return call:** Call back the sender.

Drafts   *Menu 1.3*

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.

▶ **Delete:** Deletes the message you choose.

▶ **Delete all:** Deletes all messages in the folder.

Outbox   *Menu 1.4*

When you press the Send, the message moves to the Outbox and from there the message is sent. If the message fails to be sent from the Outbox, another attempt will be made. After two attempts the message will no longer be sent automatically. In order to send the message that has failed twice, you must either press the Send from the Options menu or simply turn off and on the phone which will trigger the automatic sending of the failed message.

Sent

Allows you to see sent messages here. For sent message, you can see the delivery status.

▶ **Delete:** Deletes the selected message from the Sent.

▶ **Forward:** Forwards the current message to other recipients.

▶ **Delete all:** Deletes all the messages from the Sent.

Listen to voice mail

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.

Info message

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. In standby mode, the following options are available when viewing the info service message.

Read *(Menu 1.7.1)*

1. When you have received an info service message and select Read to view the message, it will be displayed on the screen. You can read another message by scrolling ◄ , ► or ► [Next].

2. The message will be shown until another message is reached.

Topic *(Menu 1.7.2)*

▶ **View list:** You can see Info service message numbers which you added. If you press [Options], you can edit and delete info message category which you added.

▶ **Active list:** You can select info service message numbers in the active list. if you activate an info service number, you can receive messages sent from the number.

Templates   *Menu 1.8*

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

Text templates *(Menu 1.8.1)*

The following options are available.

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

▶ **Send Via**

• **Text Messages:** Sends the selected template message by SMS.

• **Multimedia Messages:** Sends the selected template message by MMS.

▶ **Delete:** Allows you to delete the selected template message.

▶ **New Template:** Allows you to create your own template message.

▶ **Delete All**

Multimedia templates *(Menu 1.8.2)*

For further details, see page 37.

• **Send To:** Support multiple number and email addresses.

• **Preview:** To see the multimedia message you wrote.

• **Save:** Allows you to save multimedia messages in draft or as templates.

• **Move To Slide**

• **Delete Slide**

• **Delete:** Deletes the MMS message.

• **Slide Timer:** Allows you to set timer for slide and text.

• **Slide Format:** Allows you to make the message contents aligned right, left, top and bottom.

• **Add Slide:** Allows you to add a slide before or after current slide.

• **Remove Slide:** Deletes the selected slide.

• **Add Image:** Allows you to add a image before or after current image.

• **Add Sound:** Allows you to add a sound before or after current sound.

• **Delete Image:** Deletes the current image.

• **Delete Sound:** Deletes the current sound.

Settings   *Menu 1.9*

Text Message *(Menu 1.9.1)*

▶ **Message Types:** Usually, the type of message is set to Text. You can convert your text into alternative formats. Contact your service provider for the availability of this function.

▶ **Validity Period:** This network service allows you to set how long your text messages will be stored at the message centre.

▶ **Delivery Report:** If you set to Yes, you can check whether your message is sent successfully.

▶ **Reply With Same Service:** When a message is sent, it allows the recipients to reply and charge the cost of the reply to your telephone bill.

▶ **Message Center Number:** Allows you to store or change the number of your email gateway required when sending text messages. You must obtain this number from your service provider.

▶ **Subject:** If you set it to on, allows you to enter the subject.

▶ **Bearer Setting:** You can select GPRS or GSM. Contact your network operator or service provider for information related to setting a selected bearer, pricing and connection speed.
GSM Preferred/GPRS Preferred

Multimedia message *(Menu 1.9.2)*

Via this menu, you can set up default multimedia message information.
The following options are available:

▶ **Subject:** Enter the message title.

▶ **Slide Duration:** Display the duration of each page when writing the message.

▶ **Priority:** You can set the priority of the message you choose.

▶ **Validity Period:** Set the duration for keeping messages on the network server.

▶ **Delivery Reports:** If it is set to Yes in this menu, you can check whether your message is sent successfully.

▶ **Read Receipts:** This menu allows you to determine whether to request a read confirmation mail to a recipient.

▶ **Auto Download**
• **On:** If you select this, messages are downloaded automatically on receipt.
• **Off:** Defers downloading messages.

▶ **Network Profile:** For further details, see page 52.

Voicemail number *(Menu 1.9.3)*

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

❶ Note

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

Info message *(Menu 1.9.4)*

▶ **Receive**

Yes: If you select this menu, your phone will receive Info service messages.

No: If you select this menu, your phone will not receive Info service messages any more.

▶ **Alert**

Yes: Your phone will beep when you have received Info service message numbers.

No: Your phone will not beep even though you have received info service messages.

▶ **Language**

You can select the language you want by pressing [On/Off]. Then, the info service message will be shown in the language that you selected.

Push messages *(Menu 1.9.5)*

You can set the option whether you will receive the message or not.

Call history

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 2.1

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 by this number

• Delete the call from the list

Received Calls
Menu 2.2

This option lets you view the last 20 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 by this number

• Delete the call from the list

Dialed Calls
Menu 2.3

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 by this number

• Delete the call from the list

All calls
Menu 2.4

You can view all lists of outgoing, incoming and missed calls.

Call charges   *Menu 2.5*

Call duration *(Menu 2.5.1)*

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

The following timers are available:

▶ **Last call:** Length of the last call.

▶ **Dialled calls:** Length of the outgoing calls.

▶ **Received calls:** Length of the incoming calls.

▶ **All calls:** Total length of all calls made and incoming calls since the timer was last reset.

Call costs *(Menu 2.5.2)*

Allows you to check the cost of your Last call and All calls.

Cost Settings *(Menu 2.5.3)*

To check **Cost setting**, you should check the following menus.

▶ **Set credit:** This network allows you to limit the cost of your calls by selected charging units. If you select **Read**, the number of remaining unit is shown. If you select **Change**, you can change your change limit.

▶ **Set tariff:** You can set the currency type and the unit price. Contact your service providers to obtain charging unit prices. To select the currency or unit in this menu, you need the PIN2 code.

▶ **Auto display:** This network service allows you to see automatically the cost of your last calls. If set to On, you can see the last cost when the call is released.

Data Volume   *Menu 2.6*

You can check the amount of data transferred over the network through the GPRS information option. In addition, you can also view how much time you are online.

Data time *(Menu 2.6.1)*

You can check the duration of Last session and All session. You can also reset the session timer.

Data volume *(Menu 2.6.2)*

You can check the Sent, Received and All data volumes and Reset all.

Contacts

You can store phone numbers and their corresponding names in the memory of your SIM card. In addition, you can store up to 255 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.

Search

1. When the idle screen is displayed, press the right soft key [**Names**].

2. Press the left soft key [**OK**].

⚠ Note

You can also scroll through the Address Book from the beginning, in idle mode with the flip cover open, by pressing the down navigation key directly.

3. If you want to edit, delete, copy an entry, select [**Options**].

4. Once you have found the required entry, press the ✎ to dial the number.

• **Delete:** You can delete an entry.

• **New Contact:** You can add a new contact entry.

• **New Message:** You can write a short message and a multmedia message. For further details, see page 34.

• **Edit:**

• **Copy To Phone:** You can copy an entry from SIM to Phone.

• **Copy To SIM:** You can copy an entry from Phone to SIM.

New contact

You can add a address book entry by using this function. Phone memory capacity is 255 entries. SIM card memory capacity depends on the cellular service provider. You can also save 20 characters of name in the phone memory, and save characters in the SIM card. The number of characters is dependent on the SIM.

1. Open the Address Book first by pressing the right soft key [**Names**] in standby mode.

2. Scroll to highlight **New Contact**, and press the left soft key [**OK**].

3. You can add new Address book entries to SIM memory or the Address book memory. To select the memory, go to Set memory (Menu 8.7.1). (Refer to page 60.)

• **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 dials   *Menu 3.3*

You can assign any of the keys, 2︎ to 9︎ with a name list entry. You can call directly by pressing this key for 2-3 seconds.

1. Open the Address Book first by pressing the right soft key [**Names**] in a standby mode.

2. Scroll to **Speed Dial List**, then press the left soft key [**OK**].

3. If you want to add a number to speed dial, select <**Empty**>. Then, you can search the name from the Address Book.

4. Select the name from the speed dial. You can change and delete the name. In addition, you can call by this number, write text message, and multimedia message.

Groups   *Menu 3.4*

There are 6 predefined groups as well as one additional group labeled Others where you can create your own lists.

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. Scroll to **Caller Groups** then press the left soft key [**Ok**] to enter this menu.

3. Every Group list will be displayed : **Family**, **VIP**, **Friends**, **Colleague**, **Group 1**, **Group 2**, **No Group**.

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

5. You will see the following submenus under the predefined groups except for the **No 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 the member to the group.
• **Remove Member:** Allows you to delete the member in the group.
• **Rename:** Allows you to assign a name to the group.

Copy all   Menu 3.5

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

SIM To Phone (Menu 3.5.1)

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

Phone To SIM (Menu 3.5.2)

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

The following options are available:

▶ **Keep Original:** When copying, the original dial numbers are kept.
▶ **Delete Original:** When copying, the original dial numbers will be erased.

Delete all   Menu 3.6

You can delete all entries in the **SIM** and **Phone.** This function requires the security code.

Press the ⬠ key to return to the standby mode.

Settings   Menu 3.7

View options (Menu 3.7.1)

Scroll to highlight **View options**, and then press the left soft key ⬠ [OK].

▶ **Name only:** Set the phonebook list with displaying only name.
▶ **With photo:** Set the phonebook list with the information of character and picture.

Information   *Menu 3.8*

Service dial number *(Menu 3.8.1)*

Use this function to access a particular list of services provided by your network operator (if supported by the SIM card).

Own number *(Menu 3.8.2)*

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

Business card *(Menu 3.8.3)*

This option allows you to create your own business card featuring Name, an mobile phone number and so on. To create a new business card, press the left soft key ⟋ [Edit] and enter the information into the fields.

Multimedia

The phone supports 5 modes that can be set to capture images and they are 160X120, 320X240 and 640X480.

You can access camera feature directly by pressing and holding the about ▯ (camera key) 2 seconds.

Camera   Menu 4.1

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

▶ **Resolution:** Sets the image size to one of 160X120(QQVGA), 320X240(QVGA), 640X480(VGA). The selected image size displays on the capture screen.

▶ **Quality:**

▶ **Timer:** Determines the delay time.

▶ **View mode:**

▶ **Multi shot:** 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.

640X480 image size can be set at 1 Shot and 3 Shots per press, 320X240 image size can be set at 1 Shot, 3 Shots and 6 Shots per press,
and all other sizes can be set at 1 Shot, 3 Shots, 6 Shots and 9 Shots per press.

▶ **Effect:** Allows you to apply special effects to the picture. Press the left or right navigation key to find the tone you want to use. Color, Sepia, Mono are available.

▶ **White balance:** This adjusts the Light Effect level and you can select from the following options: Auto / Daylight / Incandescent / Cloudy / Fluorescent.

▶ **Shutter tone:** Allows you to select a sound when you press the shutter.
Sound 1 / Sound 2 / Sound 3 / Silent

▶ **Reset settings:** This restores the original camera settings (Size, Brightness, Zoom, etc.).

Voice recorder

The voice memo feature you to record without limitation until when the storage is full.

After finishing the recording, press the left soft key [Options], and then the following sub menu are available.

You can record voice memo in Voice recorder menu.

1. Before you record, you can select the Storage(Phone/External memory) and Recording mode(General/MMS). To activate this function, press the left soft key [Options].

2. If you want to finish recording, press the right soft key [Stop].

3. After finishing the recording, press the left soft key [Options], and then the following sub menu are available.

▶ **New voice record:** Allows you to record a memo.

My stuff

Images

The Pictures folder consists of embedded links for downloading pictures through the Internet and Default images. Pictures taken using the camera are stored in the Pictures folder and you can create new folders to manage them.

When a file is selected, the following options will be displayed by pressing the left soft key [Options].

▶ **Connect:** You can connect the Internet.

▶ **New folder:** You can create a new folder within the folder currently selected.

▶ **Delete more:**

- Multi delete: Deletes the selected image.
- Delete all: Deletes all images.

▶ **Sort by:** You can sort the files by date,type or name.

▶ **View style:** You can view the images as a Thumbnail view or List view.

Sounds

Here you can manage, send or set sounds as ringtones.

Games & Apps

You can easily download games and other applications in this menu. It has two folders, **Games** and **Applications**, as default. Each folder has an embedded link for downloading games or applications. Please note that additional cost may be incurred when using online services.

Browser

Browser
Menu 6.1

Home *(Menu 6.1.1)*

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.

Bookmarks *(Menu 6.1.2)*

Your phone may have some pre-installed bookmarks for sites not affiliated with LG. LG does not warrant or endorse these sites. If you choose to access them, you should take the same precautions, for security or content, as you would with any site.

Options in the Favorites view

- **Connect:** Connect to the URL address to download the ringtone.
- **View:** View the URL address of the Favorites.
- **Delete:** Delete the URL address.
- **Edit:** Modify the Favorites.
- **Move to Folder:** Move the Favorites to other folder.

- **New Favorite:** Create new favorites in current folder.
- **New Folder:** Create new sub-folder.
- **Send URL:** Allows the stored URL under Favorites to be sent via SMS to another person.
- **Delete All:** Allows you to erase all favorites.

Go to URL *(Menu 6.1.3)*

You can directly connect to the site you want. You need to enter a specific URL.

History *(Menu 6.1.4)*

Settings *(Menu 6.1.5)*

You can set the profile, cache, cookie and security related to internet service.

Network profile *(Menu 6.1.5.1)*

A Network profile is the network information used to connect to the Internet. There are default profiles for some operators, stored in phone memory. It's impossible to rename default profiles.

Each profile has submenus as follows:

▶ **Activate:** Activates the selected profile.

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▶ **Add new:** You can add a new profile.

▶ **Edit:** You can edit the title of the selected bookmark and/or the URL.

▶ **Delete:** Deletes the selected profile from the list.

▶ **Exit:** You can be taken back to the Settings menu.

Cache *(Menu 6.1.5.2)*

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

Cookies *(Menu 6.1.5.3)*

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

Security Certification *(Menu 6.1.5.4)*

A list of the available certification is shown.

▶ **Authority:** You can see the list of authority certificates that have been stored in your phone.

▶ **Personal:** You can see the list of personal certificates that have been stored in your phone.

Show image *(Menu 6.1.5.5)*

Allows you to enable or disable the image display during browsing.

❶ Note

Enabling this function will delay displaying images until the completion of transmission. Disabling this function will prevent the browser from downloading images from the server, thus allowing faster transmission.

Information *(Menu 6.1.6)*

The WAP Browser version is displayed.

Tools

Alarm Clock

Set the alarm to ring at a specific time. In the **Alarm Clock** menu, the following options are available:
On: Set the time(hour and minute) for activating the alarm.

1. Enter the menu.

2. Select [**On**] by pressing the right/left navigation keys.

3. If you want to set the time for activating the alarm, press the down navigation key.

4. Enter the required time, press the down navigation key.

5. The following options are available.
   - **Once:** The alarm rings only once and is then deactivated.
   - **Daily:** The alarm rings every day at the same time.
   - **Weekly:** The alarm rings every week on the same day and at the same time.
   - **Monthly:** The alarm rings every month on the same day and at the same time.

6. Allows you to select the alarm melody by using the right/left navigation keys.

7. Press the left soft key [**Save**].

Off: Cancel the alarm.

❶ Notice

If this option is set to On, the alarm will ring at the specified time, even when the phone is switched off.
To stop the alarm when it rings, open the phone and press the right soft key[Quit].

Calendar

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

❶ Note

Your phone should be switched on to use this function.

▶ **Delete:** Allows you to delete the schedule.

▶ **New Schedule:** You can edit maximum of 30 characters and create up to 30 notes.

▶ **Edit:** Allows you to edit the schedule.

▶ **Calendar:** Allows you to consult the calendar.

▶ **Scheduler Tone:** The phone can sound an alarm tone when the scheduled date for an event has been reached with this option.

▶ **All Schedules:** Shows the notes that are set for all days. Use the up/down navigation keys to browse through the note lists. You can use the menu by press the right soft key [Options].

▶ **Go To Date:** Allows you to jump to a specific date.

▶ **Delete Old:** Delete past schedule event that has already been notified.

▶ **Delete All:** Delete all schedules. You are asked to confirm your action.

❶ Note
You can see Edit, Delete,View all schedules, Delete Old, and Delete all menus dependent on setting of the schedule.

Calculator *Menu 7.3*

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.

❶ Note
To include a decimal point, press the ⬜ key.

3. To calculate the result, press the ⓔ key.

Memo

Menu 7.4

To write, edit and delete a memo on a specific date, proceed as follows.

1. Press the left soft key [**New**].
2. Input the memo and press the right soft key [**Options**].

The following options are available.

▶ **Set T9:** Allows you to select the T9 language to use in memo.

▶ **Cancel:** Allows you to exit in memo editor.

Or

1. Select a memo.
2. Press the right soft key [**Options**].

The following options are available.

▶ **Delete:** Allows you to delete the memo. You can press the right soft key [**Options** → **Delete**] to delete the memo displayed.

▶ **New Note:** Add a new memo, up to 20 memos and 40 characters per each memo.

▶ **Edit:** If you select a memo that already exists, you can press the right soft key [**Options** → **Edit**] to edit the memo displayed.

▶ **Delete All:** Allows you to delete all memos. You are asked to confirm your action.

Todo

Menu 7.5

You can view, edit and add tasks to do. Tasks are displayed in time order. Tasks that have been completed or not completed are displayed in different ways.

Add

▶ **View:** To view detailed task contents, locate the cursor on the desired item in the Tasks list, and then press ⊛ .

▶ **New:** To input the date, description and priority for the task. When you have finished entering the data, press the left soft key [OK] key to save the new task.

▶ **Status:** Tasks set as finished are displayed as crossed out below the unfinished tasks in the Tasks list. You can set Finished tasks to Not finished by selecting **Option**.

► **Edit/Delete(Multi,old,all):** You can edit and delete a task using the left soft key [Options]. You can also delete multiple or all tasks at once using the Mark/Unmark option in the menu and you can delete old or all tasks.

► **View calendar:** You can view tasks of the day selected.

Stopwatch   *Menu 7.6*

1. Press [Start] to take time and record the lap time by pressing [Lap].

2. Press [Stop] to ascertain the record of lap time.

3. Press [Reset] to default condition.

Unit converter   *Menu 7.7*

This converts any measurement into a unit you want. There are 4 types that can be converted into units: **Length**, **Surface**, **Weight**, and **Volume**.

1. You can select one of four unit types by pressing the left soft key [**Unit**].

2. Select the standard value by using the left/right navigation keys.

3. Select the unit you want to convert by pressing the up/down navigation keys.

4. You can check the converted value for the unit you want. Also, you can input a decimal number by pressing the ⬚ key.

World Clock   *Menu 7.8*

Allows you to check the current Greenwich Mean Time(GMT) and 72 major cities around the world, using the left/right navigation keys.

The screen shows the city name, current date and time.

To select the time zone in which you are located, proceed as follows:

1. Select the city corresponding to your time zone by pressing the left/right navigation keys one or more times. The local date and time are displayed.

2. If you want to set, press the left soft key.

4. If you want to set Daylight Savings, press the right soft key [DST].

❶ Note
The time zone setting of each city in World time menu may be affected by network condition.

Profile

In Profiles, you can adjust and customise the phone tones for different events, environments, or caller groups.

There are six preset profiles: **General**, **Silent**, **Vibrate only**, **Outdoor**, **Headset** and **Offline**. Each profile can be personalised. Press the left soft key [Menu] and select **Profiles** using up/down navigation keys.

Activate *(Menu 8.X.1)*

1. A list of profiles is displayed.

2. In the Profiles list, scroll to the profile you want to activate and press the left soft key [Select] or OK key.

3. Then, select Activate.

Personalise *(Menu 8.X.2)*

Scroll to the desired profile in the Profile list. After pressing the left soft key or the OK key, select **Personalise**. The profile setting option opens. Set the option as required.

▶ **Call alert type:** Set the alert type for incoming calls.

▶ **Ring tone:** Select the desired ring tone from the list.

▶ **Ring volume:** Set the volume of the ringing tone.

▶ **Message alert type:** Set the alert type for messages.

▶ **Message tone:** Select the alert tone for messages.

▶ **Keypad tone:** Select the desired keypad tone.

▶ **Keypad volume:** Set the volume of keypad tone.

▶ **Effect sound volume:** Set the volume of effect sound.

▶ **Power on/off volume:** Set the volume of the ringing tone when switching the phone on/off.

▶ **Auto answer:** This function will be activated only when your phone is connected to the handsfree kit.

• **Off:** The phone will not answer automatically.

• **After 5 secs:** After 5 seconds, the phone will answer automatically.

• **After 10 secs:** After 10 seconds, the phone will answer automatically.

Settings

Date & Time

You can set functions relating to the date and time.

Set date *(Menu 9.1.1)*

You can enter the current date.

Date Format *(Menu 9.1.2)*

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 9.1.3)*

You can enter the current time.

Time Format *(Menu 9.1.4)*

Your can set the time format between 24-hours and 12-hours.

Auto updte *(Menu 9.1.5)*

Select On, the phone will automatically update the data and time.

⚠ Note

You can use this function when your network service provider supports this feature.

Languages

You can select the display language. When the language option is set to Automatic, the language is automatically selected according to the language of the SIM card used. English will be set if the language on the SIM card is not supported in the phone.

Display

You can change the background image and the display style for Menu Mode according to your preference.

Wallpaper *(Menu 9.3.1)*

This option allows you to change the background image (wallpaper) to be displayed in idle mode.

To change the background image, proceed as follows.

1. Scroll through the list by pressing the left or right navigation key.
You have various preset images available. You can also select the blank background and any images downloaded from the Internet.

2. Press the left soft key [**Select**] when the required image is highlighted. The selected image is displayed.

Backlight Timer *(Menu 9.3.2)*

You can select whether or not the phone uses the backlight. A marginal increase in the standby/talk time can be achieved by turning the backlight off.

Brightness *(Menu 9.3.3)*

This option allows you to adjust the contrast of the LCD screen by pressing the navigation key.

Home screen shortcut *(Menu 9.3.4)*

Selecting On displays the functionalities of 4 Navigation keys and Menu key as pictures onthe middle of the idle window.
(Profiles/Messaging/Favourites/Contacts)

Theme *(Menu 9.3.5)*

Menu style *(Menu 9.3.6)*

Your phone provides you with Grid and Arch menu themes. Set the menu colour by scrolling and pressing the left soft key   [OK].

Standby text *(Menu 9.3.7)*

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

Network name *(Menu 9.3.8)*

If this function is activated, network name will be displayed on main LCD.

Colourful dial font *(Menu 9.3.9)*

Network   *Menu 9.4*

Network selection *(Menu 9.4.1)*

You can select a network which will be registered either automatically or manually. Usually, the network selection is set to **Automatic**.

Network selection

You can select a network type.

▶ **Automatic:** If you select Automatic mode, the phone will automatically search for and select a network for you. Once you have selected "Automatic", the phone will be set to "Automatic" even though the power is off and on.

▶ **Manual:** The phone will find the list of available networks and show you them. Then you can select the network which you want to use if this network has a roaming agreement with your home network operator. The phone let you select another network if the phone fails to access the selected network.

▶ **Preferred:** You can set a list of preferred networks and the phone attempts to register with first, before attempting to register to any other networks. This list is set from the phone's predefined list of known networks.

GPRS attach *(Menu 9.4.2)*

You can set GPRS service depending on various situations.

Switch on

If you select this menu, the phone is automatically registered to a GPRS network when you switch the phone on. Starting a WAP or PC dial-up application created the connection between phone and network and data transfer is possible. When you end the application, GPRS connection is ended but the registration to the GPRS network remains.

When needed

If you select this menu, the GPRS connection is established when you connect a WAP service and closed when you end the WAP connection.

Access point *(Menu 9.4.3)*

A profile is the network information used to connect to the Internet. There are default profiles for some operators, stored in phone memory. It's impossible to delete default profiles.

Call settings   *Menu 9.5*

To change the settings for call diverting:

Call divert *(Menu 9.5.1)*

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. Select one of the divert options, for example, select **If Busy** to divert voice calls when your number is busy or when you reject incoming calls.

The following options are available:

▶ **All Voice Calls:** Diverts voice calls unconditionally.

▶ **If Busy:** Diverts voice calls when the phone is in use.

▶ **If No Reply:** Diverts voice calls which you do not answer.

▶ **If Out Of Reach:** Diverts voice calls when the phone is switched off or out of coverage.

▶ **All Data Calls:** Diverts to a number with a PC connection unconditionally.

▶ **All Fax Calls:** Diverts to a number with a fax connection unconditionally.

▶ **Cancel All:** Cancels all call divert service.

Answer Mode *(Menu 9.5.2)*

Allows you to determine when to answer the phone.

▶ **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 9.5.3)*

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 9.5.4)*

The network will notify you of a new incoming call while you have a call in progress. Select **Activate** 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 9.5.5)*

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 9.5.6)*

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

Send DTMF tones *(Menu 9.5.7)*

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 settings   *Menu 9.6*

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

PIN Code Request *(Menu 9.6.1)*

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 9.6.2)*

You can use a security code to avoid unauthorized use of the phone. Whenever you switch on the phone, the phone will request security code if you set phone lock to When switch on.

If you set phone lock to **When SIM** changed, your phone will request security code only when you change your SIM card.

Auto key lock *(Menu 9.6.3)*

When Auto key Lock feature is enabled, the phone is locked.

Call Barring *(Menu 9.6.4)*

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 cannot be made.

▶ **Outgoing International:** International calls cannot be made.

▶ **O/G** (Outgoing) **International Except Home Country:** When abroad, calls can be made only to numbers within the current country and to your home country, which is where your home network provider is located.

▶ **All Incoming:** Calls cannot be received.

▶ **Incoming When Abroad:** Calls cannot be received when you are using your phone outside your home service area.

▶ **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.

❶ 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 (FDN) *(Menu 9.6.5)*

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.

❶ Note

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

Change Codes *(Menu 9.6.6)*

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**

🛈 **Note**
 PIN: Personal Identification Number.

Flight mode   *Menu 9.7*

Power save   *Menu 9.8*

Reset   *Menu 9.9*

You can initialise all factory defaults. You will need the Security code to activate this function.

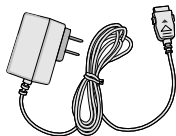**Memory status**   *Menu 9.0*

You can check the status of memory in use.

Accessories

There are a variety of accessories available for your mobile phone. You can select these options according to your personal communication requirements. Consult your local dealer for availability.

Travel Adapter

This adapter allows you to charge the battery. It supports standard U.S. 120 Volt 60Hz outlets. It takes 5 hours to charge a completely discharged battery.

Battery

Standard battery is available.

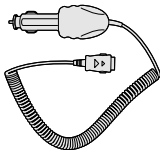## Vehicle Power Adapter

You can operate the phone and trickle charge the phone battery from your vehicle by using the vehicle power adapter.
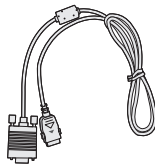It takes 5 hours to charge a completely discharged battery.

Headset

Connects to your phone, allowing hands-free operation. Includes earpiece, microphone, and integrated call answer/termination button.

Data Cable Kit

Connects your phone to a PC.

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 low-power 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; NationalCouncil on Radiation Protection and Measurements;International Commission on Non-Ionizing RadiationProtection

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 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.

▶ 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 areaí or in areas posted: 'Turn off two-way radio'. Obey all signs and instructions.

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.

▶ 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, MiniBrowser, 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.

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.

▶ 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

▶ 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.

▶ 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 Administrationís 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 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

▶ Environmental Protection Agency

▶ 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.

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 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). 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 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 tissue-simulating 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 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 (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/)

10 Driver Safety Tips

Your wireless phone gives you the powerful ability to communicate by voice almost anywhere, anytime. An important responsibility accompanies the benefits of wireless phones, one that every user must uphold. When operating a car, driving is your first responsibility.

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

1. Get to know your wireless phone and its features such as speed dial and redial. Carefully read your instruction manual and learn to take advantage of valuable features most phones offer, including automatic redial and memory. Also, work to memorize the phone keypad so you can use the speed dial function without taking your attention off the road.

2. When available, use a hands-free device. A number of hands-free wireless phone accessories are readily available today. Whether you choose an installed mounted device for your wireless phone or a speaker phone accessory, take advantage of these devices if available to you.

3. Position your wireless phone within easy reach. Make sure you place your wireless phone within easy reach and where you can reach it without removing your eyes from the road. If you get an incoming call at an inconvenient time, if possible, let your voicemail answer it for you.

4. Suspend conversations during hazardous driving conditions or situations. Let the person you are speaking with know you are driving; if necessary, suspend the call in heavy traffic or hazardous weather conditions. Rain, sleet, snow and ice can be hazardous, but so is heavy traffic. As a driver, your first responsibility is to pay attention to the road.

5. Do not take notes or look up phone numbers while driving. If you are reading an address book or business card, or writing a "to-do" list while driving a car, you are not watching where you are going. It is common sense. Don't get caught in a dangerous situation because you are reading or writing and not paying attention to the road or nearby vehicles.

6. Dial sensibly and assess the traffic; if possible, place calls when you are not moving or before pulling into traffic. Try to plan your calls before you begin your trip or attempt to coincide your calls with times you

may be stopped at a stop sign, red light or otherwise stationary. But if you need to dial while driving, follow this simple tip— dial only a few numbers, check the road and your mirrors, then continue.

7. Do not engage in stressful or emotional conversations that may be distracting. Stressful or emotional conversations and driving do not mix; they are distracting and even dangerous when you are behind the wheel of a car. Make people you are talking with aware you are driving and if necessary, suspend conversations which have the potential to divert your attention from the road.

8. Use your wireless phone to call for help. Your wireless phone is one of the greatest tools you can own to protect yourself and your family in dangerous situations — with your phone at your side, help is only three numbers away. Dial 911 or other local emergency number in the case of fire, traffic accident, road hazard or medical emergency. Remember, it is a free call on your wireless phone!

9. Use your wireless phone to help others in emergencies. Your wireless phone provides you a perfect opportunity to be a "Good Samaritan" in your community. If you see an auto accident, crime in progress or other serious emergency where lives are in danger, call 911 or other local emergency number, as you would want others to do for you.

10. Call roadside assistance or a special wireless nonemergency assistance number when necessary. Certain situations you encounter while driving may require attention, but are not urgent enough to merit a call for emergency services. But you can still use your wireless phone to lend a hand. If you see a broken-down vehicle posing no serious hazard, a broken traffic signal, a minor traffic accident where no one appears injured or a vehicle you know to be stolen, call roadside assistance or other special non-emergency wireless number.

For more information, please call to 888-901-SAFE, or visit our website www.wow-com.com

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 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.

Multiparty Calls

Ability to establish a conference call involving up to five additional parties.

Phone Password

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

Roaming

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

SDN (Service Dial Number)

Telephone numbers supplied by your network provider and giving access to special services, such as voice mail, directory inquiries, customer support and emergency services.

SIM (Subscriber Identification Module)

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

SMS (Short Message Service)

Network service sending and receiving messages to and from another subscriber without having to speak to the correspondent. The message created or received (up to 160 characters long) can be displayed, received, edited or sent.

Patent Information

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