Utilities

Guest Mode

To protect your privacy or limit some applications to your children, you can use the Guest mode.

When you lend your phone to others, you can limit the applications to be displayed.

NOTE: To use the Guest mode, the pattern lock should be set in advance.

- 1 Press the Home Key and tap Apps | > Apps tab > Settings > General tab > Guest mode.
- 2 Tap Set pattern and draw the pattern you want to use to unlock the screen for Guest Mode.
- 3 Tap Set apps, then tap and select the apps you want to make available for Guest Mode.
- 4 Tap the switch to enable this mode.

Setting your alarm

- 1 From the Home screen, tap Apps |||| > Clock > New alarm + ||
- 2 Set the desired alarm time.
- 3 Set Repeat, Snooze duration, Vibration, Alarm sound, Alarm volume, Auto app starter, Puzzle lock and Memo.
- 4 Touch Save.

NOTE: To change alarm settings in the alarm list screen, touch the Menu Key \blacksquare and select Settings.

Using your calculator

- 1 From the Home screen, tap **Apps** | > Calculator | > Calculator |
- 2 Touch the number keys to enter numbers.
- 3 For simple calculations, touch the function you want to perform (+, −, × or ÷) followed by ■.
- 4 For more complex calculations, touch the **Menu Key**, select the **Scientific** calculator, then choose sin, cos, tan, log etc.
- To view the calculation history, touch the Menu Key and select the Calculation history.

Adding an event to your calendar

- 1 From the Home screen, tap Apps | > Calendar 3.
- 2 On the screen, you can find the different view types for the Calendar (Day, Week, Month, Year, Agenda).
- 3 Tap on the date for which you wish to add an event and tap .
- **4** Touch the **Event name** field and enter the event name.
- 5 Touch the Location field and enter the location. Check the date and enter the time you wish your event to start and finish.
- 6 If you wish to add a note to your event, touch the Description field and enter the details
- 7 If you wish to repeat the alarm, set **REPEAT** and set **REMINDERS**, if necessary.
- 8 Touch **Save** to save the event in the calendar.

ThinkFree Viewer

ThinkFree Viewer is a professional mobile office solution that lets users conveniently view various types of office documents, including Word, Excel and PowerPoint files, anywhere or anytime, using their mobile devices.

Utilities

Press the Home Key \longrightarrow and tap Apps ||||| > Apps tab > ThinkFree Viewer.

Viewing files

Mobile users can now easily view a wide variety of file types, including Microsoft Office documents and Adobe PDF, right on their mobile devices. When viewing documents using ThinkFree Viewer, the objects and layout remain the similar in the original documents.

LG Backup

About backing up and restoring smartphone data

It is recommended that you regularly create and save a backup file of your data, especially before updating any software. Maintaining a current backup file may allow you to recover smartphone data if your smartphone is lost, stolen, or corrupted by an unforeseen issue.

This LG Backup application is supported between LG smartphones, other software or operating system versions. As a result, when you buy the new LG smartphone, you can restore the current phone data to your new phone.

If you have the Backup application preloaded on your smartphone, you can backup and restore most of your smart phone data, including downloaded and pre-installed applications, LG Home screen, personal data and system settings. You may also:

- Perform a manual LG Backup of your smartphone data.
- · Schedule automatic backups of your smartphone data.
- · Restore your smartphone data.

NOTE: Please note that the Backup function does not support the backup of User data and media data (Picture/Video/Music). Please backup those files using the Media sync (MTP). Connect your phone to your computer using a USB cable and touch Media sync (MTP).

Warning! To protect against unexpected shutoff during backup or restore operations, due to insufficient battery power, you should always keep your battery fully charged.

LG Backup your smart phone data

- 1 From the Home screen, tap Apps | > LG Backup | > Backup.
- 2 Select the check box for the items you want to backup, tap **Next**.
- 3 Select the desired location and tap Next > Start.

NOTE: Checkmark the lock option to set a password for the backup file.

4 When all selected files have been backed up, you will see the message Backup completed.

Scheduling automatic backups

You can also program automatic backups for the data on your smartphone according to your schedule setting. To do this, complete the following steps:

- 1 From the Home screen, tap **Apps** | > **LG Backup** | > **Scheduled backup**.
- 2 Set the desired options and tap of to turn the feature on.

NOTE: Checkmark the lock option to set a password for the backup file.

Restoring smartphone data

NOTE: All files that are stored on your smart phone are deleted before the backup file is restored.

- 1 From the Home screen, tap Apps | > LG Backup | > File restore & management.
- 2 On the Restore screen, select a backup file that contains the data you wish to restore.
- 3 If the backup file is encrypted, type the password that you created to encrypt it.

Utilities

4 Select the check box next to the item you wish to restore and select Next to restore it to your phone.

NOTE: Please note that your phone data will be overwritten with the content of your backup.

5 Tap Start to begin restoration. When all selected files have been restored, the phone will automatically restart.

NOTE: You can set the **Lock** option when creating backups to encrypt your backup files for extra protection.

From the Backup home screen, tap the **Menu Key** \equiv > **Set password**. And enter a password and hint in case you forgot your password. Once you have set up a password, you need to enter it every time you want to do backup/restore.

Google+

Use this application to stay connected with people via Google's social network service. From the Home screen, tap $Apps \implies Soogle \implies Soogle + S$.

NOTE: This application may not be available depending on the region or service provider.

Voice Search

Use this application to search web pages using voice.

- 1 From the Home screen, tap Apps | > Google > Voice Search .
- 2 Say a keyword or phrase when Speak now appears on the screen. Select one of the suggested keywords that appear.

NOTE: This application may not be available depending on the region or service provider.

Downloads

Use this application to see what files have been downloaded.

From the Home screen, tap **Apps** | > **Downloads** | **L**.

The Web

Web

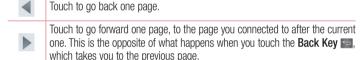
Use this application to browse the Internet. The Web gives you a fast, full-color world of games, music, news, sports, entertainment and much more, right on your mobile phone wherever you are and whatever you enjoy.

NOTE: Additional charges apply when connecting to these services and downloading content. Check data charges with your network provider.

From the Home screen, tap Apps ||||| > Web @.

Using the Web toolbar

The following options are available.



Touch to go to the Home page.

Touch to add a new window.

Touch to access bookmarks.

Viewing webpages

Tap the web address field, enter the web address and tap Go

Opening a page

- To go to new page, tap > 母.
- To go to another webpage, tap 2, scroll up or down, and tap the page to view it.

Searching the web by voice

Tap the web address field, tap \P , speak a keyword, and then select one of the suggested keywords that appear.

 $\ensuremath{\mathsf{NOTE}}\xspace$. This feature may not be available depending on the region or service provider.

Bookmarks

- To bookmark the current webpage, tap the Menu Key > Add to bookmarks.
 Enter the desired information and tap OK.
- To open a bookmarked webpage, tap
 on the Web toolbar and select one.

History

Tap |X| >History tab to open a webpage from the list of recently-visited webpages. To clear the history, tap the **Menu Key** |X| >Clear all history.

Chrome

Use Chrome to search for information and browse webpages.

From the Home screen, tap Apps $\boxed{}$ > Chrome \bigcirc .

NOTE: This application may not be available, depending on your region and service provider.

Viewing webpages

Tap the web address field, and then enter a web address or search criteria and tap on the keyboard.

Opening a page

- To go to another webpage, tap , scroll up or down and tap the page to select it.

The Web

Syncing with other devices

Sync open tabs and bookmarks to use with Chrome on another device when you are logged in with the same Google account.

To view open tabs on other devices, tap the **Menu Key** \blacksquare > **Other devices**. You must be signed in to the same Google account on all devices. Select a webpage to open.

Adding bookmarks

To add bookmarks, tap the **Menu Key** $\equiv > :$

Settings

Access the Settings menu

- 1 From the Home screen, tap Apps | > Settings . OB
 - From the Home screen, tap the **Menu Key System settings**.
- 2 Select a setting category and select an option.

Networks

< Airplane mode >

Tap the **Airplane mode** switch er and to toggle between On and Off. Activating Airplane mode disables all wireless connections.

< Wi-Fi >

Tap of to turn on Wi-Fi to connect and available Wi-Fi networks.

TIP! How to obtain the MAC address

To set up a connection in some wireless networks with MAC filters, you may need to enter the MAC address of your phone in the router.

You can find the MAC address in the following user interface: From the Home screen, tap Apps | > Settings > Wi-Fi > Menu Key > Advanced Wi-Fi > MAC address

< Bluetooth >

Turn the Bluetooth wireless feature on or off and connect with other Bluetooth-enabled devices.

< Data Manager >

Displays the data usage and set mobile data usage limit.

< Call >

Configure phone call settings such as call forwarding and other special features offered by vour carrier.

Settings

Voicemail – Allows you to select your carrier's voicemail service.

Fixed dialing numbers – Turn on and compile a list of numbers that can be called from your phone. You'll need your PIN2, which is available from your operator. Only numbers within the fixed dial list can be called from your phone.

Caller ID - Choose whether to display your number in an outgoing call.

Incoming voice call pop-up - Display incoming call pop-up when using the camera and watching videos.

Call reject — Allows you to set the call reject function. Choose the Call reject mode and add numbers to the call rejection list.

Decline with message — When you want to reject a call, you can send a quick message using this function. This is useful if you need to reject a call during a meeting. **Privacy keeper** — Hides the caller name and number for an incoming call.

Home button answers call - Checkmark to enable answering incoming calls by pressing the Home button.

Auto answer - Turn on auto answer with handsfree.

Connection vibration - Vibrates your phone when the other party answers the call.

TTY mode – Opens a dialog box to set TTY mode to communicate with other TTY devices.

Hearing aids – Checkmark to enable hearing aid compatibility.

Power button ends call – Allows you to end calls by pressing the Power/Lock Key instead of the End button on your screen.

Call duration – View the duration of calls including Last call, All calls, Dialed calls and Received calls.

Additional settings – Allows you to change the following settings:

Call forwarding — Choose whether to divert all calls when the line is busy, when there is no answer or when you have no signal.

Call waiting: If call waiting is activated, the handset will notify you of an incoming call while you are on a call (depending on your network provider).

< NETWORK >

Mobile networks – Set options for data roaming, network mode & operators, access point names (APNs), and more.

Default message app – Allows you to set the default message app.

VPN – Displays the list of Virtual Private Networks (VPNs) that you've previously configured. Allows you to add different types of VPNs.

NOTE: You must set a lock screen PIN or password before you can use credential storage.

Sound

< Sound profile >

Choose Sound, Vibrate only or Silent.

< Volumes >

Adjust the phone's volume settings to suit your needs and your environment.

< Quiet mode >

Set up your Quiet mode.

Turn Quiet mode on now – Tap the switch to toggle it on or off immediately.

Set quiet time – Tap the switch to toggle it On or Off. You can also set the days and times to automatically turn Quiet mode on.

Vibrate – Checkmark to vibrate when guiet mode is on.

Incoming call settings

Block incoming calls – Checkmark to block all incoming calls.

Allow repeated calls – Checkmark to allow a call that is repeated within 3 minutes.

Allowed contact lists – Designate which calls from contacts will be allowed.

Auto reply to blocked calls – Set how to you want to automatically reply to silenced calls.

Settings

Help – Tap to view help information on quiet mode.

< Phone ringtone >

Set the ringtone for calls. You can also add a ringtone by tapping • at the top right corner of the screen.

< Ringtone with vibration >

Checkmark to set the phone to vibrate in addition to the ringtone when you receive calls.

< Incoming call vibration >

Sets the incoming call vibration Options.

< Voice notifications >

Tap the **Voice notifications** switch to toggle it On or Off. On allows your device to read out incoming call and message events automatically.

< Default notification sound >

Allows you to set the sound for notifications. You can also add a sound by tapping \bigcirc at the top right corner of the screen.

< Touch feedback & system >

Allows you to set the feedback (tones and/or vibration) while using your device.

Display

< Home screen >

Set the following options: Select Home, Wallpaper, Screen swipe effect, Allow Home screen looping, Portrait view only, Home backup & restore, Help.

< Lock screen >

Select screen lock — Set a screen lock type to secure your phone. Opens a set of screens that guide you through drawing a screen unlock pattern. Set None, Swipe, Knock Code, Face Unlock, Pattern, PIN or Password.

If you have enabled a Pattern lock type when you turn on your phone or wake up the screen, you will be asked to draw your unlock pattern to unlock the screen.

Screen swipe effect – Sets the screen swipe effect options. Choose from **Dewdrop** and **White hole**.

NOTE: Screen swipe effect becomes Pattern effect if the screen lock is set to Pattern.

Wallpaper – Sets your Lock screen wallpaper. Select it from Gallery or Wallpaper gallery.

Widgets - Allows you to show widgets on Lockscreen.

Shortcuts – Allows you to change the shortcuts on the **Swipe** Lock screen.

Contact info for lost phone – Checkmark to set the device owner's name to be displayed on the Lock screen. Tap ❖ to enter the text to be displayed as the Owner info

Lock timer – Sets the amount of time before the screen automatically locks after the screen has timed-out.

Power button instantly locks — Checkmark to instantly lock the screen when the Power/Lock Key is pressed. This setting overrides the Security lock timer setting.

< Brightness >

Adjusts the brightness of the screen. For best battery performance, use the dimmest comfortable brightness.

< Screen timeout >

Sets the amount of time before the screen times out.

< Screen-off effect >

Sets the screen-off effect. Choose from Retro TV, Fade out and Black hole.

< Auto-rotate screen >

Checkmark to set the phone to automatically rotate the screen based on the phone orientation (portrait or landscape).

Settings

< Daydream >

Tap the Daydream switch to toggle it On or Off. On allows the set screensaver to be displayed when the phone is sleeping while docked and/or charging. Choose from **Clock** and **Google Photos**.

< Font type >

Sets the type of font used for the phone and menus.

< Font size >

Sets the size of the font displayed in the phone and menus.

< Smart screen >

Checkmark to keep the screen from timing-out when the device detects your eyes looking at the screen.

Home button LED – Select the item you wish to apply LED lighting.

General

< Gestures >

Screen on/off – Checkmark to enable KnockON to turn the screen on and off. Quickly double-tap center screen to turn it on. Double-tap the Status Bar, an empty area on the Home screen, or the Lock screen to turn the screen off. For the best results, do not move the phone while using the KnockON feature.

Silence incoming calls — Checkmark to enable you to flip the phone to silence incoming calls.

Snooze or stop alarm – Checkmark to enable you to simply flip the device to snooze or stop the alarm.

Pause video — Checkmark to enable you to simply flip the device to pause the currently playing video.

Help – Opens a help guide on how to use the Gestures features of your device.

Motion sensor calibration – Allows you to improve the accuracy of the tilt and speed of the sensor.

< Storage >

INTERNAL STORAGE - Displays the total amount of space in the phone's memory and lists what type of data is using up space.

SD CARD - Displays the total amount of memory space on the microSD card.

Mount/Unmount SD card - Mounts and unmounts the microSD card from your phone so that you can access the data stored in it, format the card, or safely remove it. This setting is dimmed if there's no microSD card installed, if vou've already unmounted it, or if you've mounted the microSD card on your computer.

Erase SD card - Permanently erases everything on the microSD card and prepares it for use with your phone.

< Battery >

BATTERY INFORMATION

See how much battery power is used for device activities. The battery level displays in a percentage. The remaining time of use is also displayed.

Battery percentage on status bar: Displays the battery percentage on the Status Bar. **RATTERY SAVER**

Battery saver - Manage the battery for the power saving items. Tap the switch to turn this feature on. Tap **Battery saver** for the following options.



TURN BATTERY SAVER ON

Turn Battery saver on - Select the level you want to turn on the Power saver.

POWER SAVING ITEMS

Checkmark each feature to turn off or adjust when the battery is low.

- Auto-svnc: Turns off Auto-svnc.
- Wi-Fi: Turns off Wi-Fi if data is not in use.
- Bluetooth: Turns off Bluetooth if not connected.
- Vibrate on touch: Turns off touch feedback
- Brightness: Adjust the brightness.
- Screen timeout: Adjust the screen timeout.

Settings

Help - Touch to access some tips for Battlery saver.

< Apps >

Use the Apps menu to view details about the applications installed on your phone, manage their data, and force them to stop.

< Accounts & sync >

Permits applications to synchronize data in the background, whether or not you are actively working in them. Deselecting this setting can save battery power and lower (but not eliminate) data usage.

< Guest mode >

To protect your privacy or limit some applications to your children, you can use the Guest mode. When you lend your phone to others, you can limit the applications to be displayed. In advance, set the Guest mode and customize the options.

< Location >

Turn on location service, your phone determines your approximate location using GPS, Wi-Fi and mobile networks

Mode — Set the location mode from High accuracy, Battery saving and Device sensors only.

< Security >

Encrypt phone - Allows you to encrypt the phone to keep it secure. After encryption, a PIN or password needs to be entered each time you power the phone on.

Encrypt SD card storage - Encrypt SD card storage and keep data unavailable for other devices.

Password typing visible – Show the last character of the hidden password as you type.

Phone administrators – View or deactivate phone administrators.

Unknown sources – Allows you to install non-Play Store applications.

Verify apps - Disallow or warn before installation of apps that may cause harm.

Storage type - Hardware-backed.

Trusted credentials – Display trusted CA certificates.

Install from storage – Choose to install encrypted certificates.

Clear credentials – Remove all certificates.

< Language & input >

Use the Language & input settings to select the language for the text on your phone and to configure the on-screen keyboard, including words you've added to its dictionary.

< Backup & reset >

Back up my data – Set to backup your settings and application data to the Google server

Backup account – Set the account to which you want to backup data to.

Automatic restore – Set to restore your settings and application data when the applications are reinstalled on your device.

LG Backup service – Backs up all information on the device and restores it in the event of data loss or replacement.

Factory data reset – Reset your settings to the factory default values and delete all your data. If you reset the phone this way, you are prompted to re-enter the same information as when you first started Android.

< Date & time >

This menu allows you to set how dates will be displayed. You can also use these settings to set your own time and time zone rather than obtaining the current time from the mobile network.

< Accessibility >

Use the **Accessibility** settings to configure accessibility plug-ins you have installed on your phone.

TalkBack – Allows you to set up the TalkBack function which assists people with impaired vision by providing verbal feedback. Tap the **TalkBack** switch error at the top right corner of the screen to turn it on. Tap **Settings** at the bottom of the screen to adjust the TalkBack settings.

Settings

Large text – Checkmark to increase the size of the text.

Touch zoom — When this feature is turned on, you can zoom in and out by triple-tapping the screen.

Screen shades – Dims the screen's backlight.

Text-to-speech output – Text-to-speech output provides audible readout of text, for example, the contents of text messages, and the Caller ID for incoming calls.

Audio type – Choose from **Mono** and **Stereo**.

Sound balance – To manually set the audio route, move the slider on the mono audio slide bar.

Captions - Allows customized caption settings for those with hearing impairments.

Touch feedback time – Sets the touch and hold delay (short, medium, or long).

Universal touch — Tap the switch — Jo to toggle it on and off. On allows you to replace the hardware keys with a Universal touch board ⊕. Tap the Universal touch icon ⊕ to access the Power, Home, Volume down, Volume up, and Pinch buttons. Draw a "C" on the board to automatically display the Dial tab. Draw an "M" on the board to automatically display the Messaging application. Draw a "W" on the board to automatically launch the Chrome application.

Auto-rotate screen – Checkmark to allow the device to rotate the screen depnding on the device orientation (portrait or landscape).

Read passwords – Allows the device to confirm characters via voice feedback when you are inputting passwords.

Power key ends call – Checkmark so that you can end voice calls by pressing the Power/Lock Key. When this option is enabled, pressing the Power/Lock Key during a call does not lock the screen.

Accessibility settings shortcut – Turning this feature on allows you to activate an accessibility feature by pressing the Home Key — three (3) times. Choose from Off, Show all, TalkBack, Universal touch, and Accessibility settings.

< PC connection >

Select USB connection method – Set the desired mode you want to use by default

when connecting to a PC. Choose from Charge only, Media sync (MTP), LG software or Send image (PTP).

Ask upon connection – Ask in USB connection mode when connecting to a computer. **Help** – Displays help information for the On-Screen Phone feature.

PC Suite – Check this to use LG PC Suite with your Wi-Fi connection. Please note that Wi-Fi network should be connected to LG PC Suite via a Wi-Fi connection.

Help – Help for LG software.

< Accessory >

QuickWindow case – Activate to make features, such as music, weather, and clock, available in small view when using the QuickWindow case.

Earphone Plug & Pop – Sets the Plug & Pop feature for earphones. Checkmark the apps you want to make available and tap $\[\]$ to turn the feature on.

< About phone >

View legal information and check your phone status and software version.

Phone name – Allows you to change the phone name.

Software Update – Allows you to check for Android system software updates and other current information.

Network – Allows you to view your network, network type and strength, service state, roaming status, mobile network state, and IP address.

Status - Allows you to view the phone number, IMEI, IMEI SV.

Battery – Allows you to view battery status, battery level, and battery use information.

Hardware information – Allows you to view Wi-Fi MAC address and Bluetooth address

Software information – Allows you to view Android version, baseband version, kernel version, build number, and software version.

Legal information – Allows you to view open source licenses and Google legal information.

Patent information – Displays LG patent information.

Phone software update

Phone software update

This feature allows you to update the firmware of your phone to the latest version conveniently from the internet without the need to visit a service center. For more information on how to use this function, please visit: http://www.lg.com

As the mobile phone firmware update requires the user's full attention for the duration of the update process, please make sure to check all instructions and notes that appear at each step before proceeding. Please note that removing the USB cable or battery during the upgrade may seriously damage your mobile phone.

LG Mobile Phone Software update via Over-the-Air (OTA)

This feature allows you to update the firmware of your phone to the newer version conveniently via OTA without connecting the USB data cable. This feature is only available if and when LG makes the newer version of the firmware available for your device. First, you can check the software version on your mobile phone:

From the Home screen, tap the Menu Key $\blacksquare >$ System settings > General tab > About phone > Software information.

To perform the phone software update, from the Home screen, tap the Menu Key \equiv > System settings > General tab > About phone > Update Center > System updates > Check now.

NOTE: LG reserves the right to make firmware updates available only for selected models at its own discretion and does not guarantee the availability of the newer version of the firmware for all handset models.

NOTE: Your personal data—including information about your Google account and any other accounts, your system/application data and settings, any downloaded applications and your DRM licence —might be lost in the process of updating your phone's software. Therefore, LG recommends that you back up your personal data before updating your phone's software. LG does not take responsibility for any loss of personal data.

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DivX Mobile PIVX

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ABOUT DIVX VIDEO-ON-DEMAND: This DivX Certified® device must be registered in order to play purchased DivX Video-on-Demand (VOD) movies. To obtain your registration code, locate the DivX VOD section in your device setup menu. Go to vod. divx.com for more information on how to complete your registration.

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 Wi-Fi® and Wi-Fi Protected Access®are registered trademarks of the Wi-Fi Alliance.

Accessories

These accessories are available for use with your phone. (Items described below may be optional and sold separately.)

Travel adapter



Data cableConnect your phone and PC



User Guide

Learn more about your phone.



Battery



NOTE:

- Always use genuine LG accessories. Failure to do this may void your warranty.
- · Accessories may vary in different regions.

Troubleshooting

This chapter lists some problems you might encounter when using your phone. Some problems require you to call your service provider, but most are easy to fix yourself.

Message	Possible causes	Possible corrective measures
Micro SIM error	There is no Micro SIM card in the phone or it is inserted incorrectly.	Make sure that the Micro SIM card is correctly inserted.
No network connection/ Dropped network	Signal is weak or you are outside the carrier network.	Move toward a window or into an open area. Check the network operator coverage map.
	Operator applied new services.	Check whether the Micro SIM card is more than 6~12 months old. If so, change your Micro SIM at your network provider's nearest branch. Contact your service provider.

Troubleshooting

Message	Possible causes	Possible corrective measures
Codes do not match	To change a security code, you will need to confirm the new code by re-entering it.	If you forget the code, contact your service provider.
	The two codes you have entered do not match.	
No applications can be set	Not supported by service provider or registration required.	Contact your service provider.
Calls not available	Dialling error	New network not authorized.
	New Micro SIM card inserted.	Check for new restrictions.
	Pre-paid charge limit reached.	Contact service provider or reset limit with PIN2.
Phone cannot be switched on	Power/Lock Key pressed too briefly.	Press the Power/Lock Key for at least two seconds.
	Battery is not charged.	Charge battery. Check the charging indicator on the display.

Message	Possible causes	Possible corrective measures
Charging error	Battery is not charged.	Charge battery.
	Outside temperature is too hot or cold.	Make sure phone is charging at a normal temperature.
	Contact problem	Check the charger and its connection to the phone.
	No voltage	Plug the charger into a different socket.
	Charger defective	Replace the charger.
	Wrong charger	Use only original LG accessories.
Number not allowed	The Fixed dialling number function is on.	Check the Settings menu and turn the function off.
Impossible to receive / send text and picture messages	Memory full	Delete some messages from your phone.
Files do not open	Unsupported file format	Check the supported file formats.

Troubleshooting

Message	Possible causes	Possible corrective measures
The screen does not turn on when I receive a call.	Proximity sensor problem	If you use a protection tape or case, make sure it has not covered the area around the proximity sensor. Make sure that the area around the proximity sensor is clean.
No sound	Vibration mode	Check the settings status in the sound menu to make sure you are not in vibration or silent mode.
Hangs up or freezes	Intermittent software problem	Try to perform a software update via the website.

Safety Information

Please read and observe the following information for safe and proper use of your phone and to prevent damage.

WARNING! This product contains chemicals known to the State of California to cause cancer and birth defects or reproductive harm. *Wash hands after handling*.

Caution Violation of the instructions may cause minor or serious damage to the product.

- Do not disassemble or open crush, bend or deform, puncture or shred.
- Do not modify or remanufacture, attempt to insert foreign objects into the battery, immerse or expose to water or other liquids, expose to fire, explosion or other hazard.
- Only use the battery for the system for which it is specified.
- Only use the battery with a charging system that has been qualified with the system
 per CTIA Certification Requirements for Battery System Compliance to IEEE1725. Use
 of an unqualified battery or charger may present a risk of fire, explosion, leakage, or
 other hazard.
- Do not short circuit a battery or allow metallic conductive objects to contact battery terminals
- Replace the battery only with another battery that has been qualified with the system
 per this standard, IEEE-Std-1725. Use of an unqualified battery may present a risk of
 fire, explosion, leakage or other hazard.
- Only authorized service providers shall replace battery(If the battery is non-user replaceable).
- Promptly dispose of used batteries in accordance with local regulations.
- Battery usage by children should be supervised.
- Avoid dropping the phone or battery. If the phone or battery is dropped, especially
 on a hard surface, and the user suspects damage, take it to a service center for
 inspection.

- Improper battery use may result in a fire, explosion or other hazard.
- Repairs under warranty, at LG's option, may include replacement parts or boards that are either new or reconditioned, provided that they have functionality equal to that of the parts being replaced.
- For those host devices that utilize a USB port as a charging source, the host device's
 user manual shall include a statement that the phone shall only be connected
 to products that bear the USB-IF logo or have completed the USB-IF compliance
 program.

Charger and Adapter Safety

- The charger and adapter are intended for indoor use only.
- Insert the battery pack charger vertically into the wall power socket.
- Unplug the power cord and charger during lightning storms to avoid electric shock or fire.
- Use the correct adapter for your phone when using the battery pack charger abroad.

Battery Information and Care

- Please read the manual of proper installation and removal of the battery.
- Please read the manual of specified charger about charging method.
- Do not damage the power cord by bending, twisting, or heating. Do not use the plug
 if it is loose as it may cause electric shock or fire.
- Do not place any heavy items on the power cord. Do not allow the power cord to be crimped as it may cause electric shock or fire.
- Unplug the power cord prior to cleaning your phone, and clean the power plug pin
 when it's dirty. When using the power plug, ensure that it's firmly connected. If 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. Short-circuit of the terminal may
 damage the battery and cause an explosion. Always cover the receptacle when not
 in use.

- Recharge the battery after long periods of non-use to maximize battery life. Battery life will vary due to usage pattern and environmental conditions.
- Never store your phone in temperature less than -4 °F or greater than 122 °F.
- Charging temperature range is between 32 °F and 113 °F. Do not charge the battery
 out of recommended temperature range. Charging out of recommended range might
 cause the generating heat or serious damage of battery. And also, it might cause the
 deterioration of battery's characteristics and cycle life.
- Do not use or leave the battery under the blazing sun or in heated car by sunshine.
 The battery may generate heat, smoke or flame. And also, it might cause the deterioration of battery's characteristics or cycle life.
- The battery pack has protection circuit to avoid the danger. Do not use near places
 that can generate static electricity more than 100V which could damage the
 protection circuit. Damaged protection circuits may generate smoke, rupture or ignite.
- When using the battery for the first time, if it emits a bad smell, you see rust on it, or anything else abnormal, do not use the equipment and bring the battery to the shop which it was bought.
- Keep batteries away from babies and small children. If children use the battery, their
 parents or legal guardians are responsible for supervising and teaching them about
 the safe handling of batteries and how to use batteries according to the manual with
 care.
- If liquid from the battery rubs against skin or clothing, wash with fresh water. It may
 cause the skin inflammation. Remove and do not use the battery. Be careful that
 children do not swallow any parts (such as earphone, connection parts of the phone,
 etc.). This could cause asphyxiation or suffocation resulting in serious injury or death.
- 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 place or answer calls while charging the phone as it may short-circuit the phone and/or cause electric shock or fire.
- Do not use harsh chemicals (such as alcohol, benzene, thinners, etc.) or detergents to

clean your phone. This could cause a fire.

 Always unplug the charger from the wall socket after the phone is fully charged to save unnecessary power consumption of the charger.

Care and Maintenance

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

Keep your Mobile Device away from:

Liquids of any kind

Keep the mobile device dry. Precipitation, humidity, and liquids contain minerals that will corrode electronic circuits. If the mobile device does get wet, do not accelerate drying with the use of an oven, microwave, or dryer, because this may damage the mobile device and could cause a fire or explosion.

Do not use the mobile device with a wet hand.

Doing so may cause an electric shock to you or damage to the mobile device.

Extreme heat or cold

Avoid temperatures below 0°C / 32°F or above 45°C / 113°F.

Microwaves

Do not try to dry your mobile device in a microwave oven. Doing so may cause a fire or explosion.

Dust and dirt

Do not expose your mobile device to dust, dirt, or sand.

Sunscreen lotion

Do not expose or wear your device to any liquid like sunscreen lotion.

Doing so may cause your device to or damage to the mobile device.

Cleaning solutions

Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the mobile device.

Wipe it with a soft cloths lightly dampened in a mild soap-and-water solution.

Shock or vibration

Do not drop, knock, or shake the mobile device.

Rough handling can break internal circuit boards.

Paint

Do not paint the mobile device. Paint can clog the device's moving parts or ventilation openings and prevent proper operation.

General Notice

- 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.
- 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.
- 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. (Ringtones, 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 ringtone to vibration so you don't disturb others.
- Do not turn your phone on or off when putting it to your ear.
- Your phone is an electronic device that generates heat during normal operation.
 Extremely prolonged, direct skin contact in the absence of adequate ventilation may result in discomfort or minor burns. Therefore, use care when handling your phone during or immediately after operation.

Use accessories, such as earphones and headsets, with caution. Ensure that cables are tucked away safely and do not touch the antenna unnecessarily.

Part 15.19 statement

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

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.

FCC RF Exposure Information

WARNING! Read this information before operating the phone.

In August 1996, the Federal Communications Commission (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.

Body-worn Operation

This device was tested for typical body-worn operations with the back of the phone kept 0.39inches (1cm) between the user's body and the back of the phone. To comply with FCC RF exposure requirements, a minimum separation distance of 0.39 inches (1cm) must be maintained between the user's body and the back of the phone.

belt-clips, holsters, and similar accessories containing metallic components may not be used. Body-worn accessories that cannot maintain 0.39 inches (1cm) 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.

Caution

Use only the supplied antenna. Use of unauthorized antennas (or modifications to the antenna) could impair call quality, damage the phone, void your warranty and/or violate FCC regulations.

Don't use the phone with a damaged antenna. A damaged antenna could cause a minor skin burn. Contact your local dealer for a replacement antenna.

Consumer Information About Radio Frequency Emissions

Your wireless phone, which contains a radio transmitter and receiver, emits radio frequency energy during use. The following consumer information addresses commonly asked questions about the health effects of wireless phones.

Are wireless phones safe?

Scientific research on the subject of wireless phones and radio frequency ("RF") energy has been conducted worldwide for many years, and continues. In the United States, the Food and Drug Administration ("FDA") and the Federal Communications Commission ("FCC") set policies and procedures for wireless phones. The FDA issued a website publication on health issues related to cell phone usage where it states, "The scientific community at large ... believes that the weight of scientific evidence does not show an association between exposure to radiofrequency (RF) from cell phones and adverse health outcomes. Still the scientific community does recommend conducting additional research to address gaps in knowledge. That research is being conducted around the world and FDA continues to monitor developments in this field. You can access the joint FDA/FCC website at http://www.fda.gov (under "C" in the subject index, select Cell Phones > Research). You can also contact the FDA toll-free at (888) 463-6332 or (888) INFO-FDA. In June 2000, the FDA entered into a cooperative research and development agreement through which additional scientific research is being conducted. The FCC issued its own website publication stating that "there is no scientific evidence that

proves that wireless phone usage can lead to cancer or a variety of other problems, including headaches, dizziness or memory loss."

This publication is available at http://www.fcc.gov/oet/rfsafety or through the FCC at (888) 225-5322 or (888) CALL-FCC.

What does "SAR" mean?

In 1996, the FCC, working with the FDA, the U.S. Environmental Protection Agency, and other agencies, established RF exposure safety guidelines for wireless phones in the United States. Before a wireless phone model is available for sale to the public, it must be tested by the manufacturer and certified to the FCC that it does not exceed limits established by the FCC. One of these limits is expressed as a Specific Absorption Rate, or "SAR." SAR is a measure of the rate of absorption of RF energy in the body. Tests for SAR are conducted with the phone transmitting at its highest power level in all tested frequency bands. Since 1996, the FCC has required that the SAR of handheld wireless phones not exceed 1.6 watts per kilogram, averaged over one gram of tissue. Although the SAR is determined at the highest power level, the actual SAR value of a wireless phone while operating can be less than the reported SAR value. This is because the SAR value may vary from call to call, depending on factors such as proximity to a cell site, the proximity of the phone to the body while in use, and the use of hands-free devices.

For more information about SARs, see the FCC's OET Bulletins 56 and 65 at http://www.fcc.gov/Bureaus/Engineering_Technology/Documents/bulletins or visit the Cellular Telecommunications Industry Association website at http://www.ctia.org/consumer_info/index.cfm/AID/10371. You may also wish to contact the manufacturer of your phone.

Can I minimize my RF exposure?

If you are concerned about RF, there are several simple steps you can take to minimize your RF exposure. You can, of course, reduce your talk time. You can place more distance between your body and the source of the RF, as the exposure level drops off dramatically with distance. The FDA/FCC website states that "hands-free kits can be used with wireless phones for convenience and comfort. These systems reduce the

absorption of RF energy in the head because the phone, which is the source of the RF emissions, will not be placed against the head. On the other hand, if the phone is mounted against the waist or other part of the body during use, then that part of the body will absorb more RF energy. Wireless phones marketed in the U.S. are required to meet safety requirements regardless of whether they are used against the head or against the body. Either configuration should result in compliance with the safety limit." Also, if you use your wireless phone while in a car, you can use a phone with an antenna on the outside of the vehicle. You should also read and follow your wireless phone manufacturer's instructions for the safe operation of your phone.

Do wireless phones pose any special risks to children?

The FDA/FCC website states that "the scientific evidence does not show a danger to users of wireless communication devices, including children." The FDA/FCC website further states that "some groups sponsored by other national governments have advised that children be discouraged from using wireless phones at all". For example, the Stewart Report from the United Kingdom ["UK"] made such a recommendation in December 2000. In this report a group of independent experts noted that no evidence exists that using a cell phone causes brain tumors or other ill effects. [The UK's] recommendation to limit cell phone use by children was strictly precautionary; it was not based on scientific evidence that any health hazard exists. A copy of the UK's leaflet is available at http://www.dh.gov.uk (search "mobile"), or you can write to: NRPB, Chilton, Didcot, Oxon OX11 ORQ, United Kingdom. Copies of the UK's annual reports on mobile phones and RF are available online at www.iegmp.org.uk and http://www.hpa.org.uk/radiation/ (search "mobile"). Parents who wish to reduce their children's RF exposure may choose to restrict their children's wireless phone use.

Where can I get further information about RF emissions?

For further information, see the following additional resources (websites current as of April 2005):

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 (or call the customer service line to discuss alternatives).

Other Medical Devices

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

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. Switch OFF your phone before boarding an aircraft.

Blasting Areas

To avoid interfering with blasting operations, turn your phone OFF when in a "blasting area" 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.

FDA Consumer Update



The U.S. Food and Drug Administration's 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 Radio Frequency (RF) energy in the microwave range while being used. They also emit very low levels of RF when in idle 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 Radio Frequency (RF) energy 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 does 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 guestions 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 Radio Frequency (RF) energy 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 Radio Frequency (RF) energy 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 do not 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 ten or more years follow-up may be needed to provide answers about some health effects, such as cancer. This is because the interval between the time of exposure to a cancer-causing agent and the time tumors develop — if they do — may be many, many years. The interpretation of epidemiological studies is hampered by difficulties in measuring actual RF exposure during day-to-day use of wireless phones. Many factors affect this measurement, such as the angle at which the phone is held, or which model of phone is used.

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 Radio Frequency (RF) energy.

The FDA has been a leading participant in the World Health Organization International Electro Magnetic 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 (RF) energy 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 phones 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 (RF) energy 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 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 Radio Frequency energy from my wireless phone?

If there is a risk from these products — and at this point we do not know that there is — it is probably very small. But if you are concerned about avoiding even potential risks, you can take a few simple steps to minimize your exposure to Radio Frequency (RF) energy. 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 does 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 Radio Frequency (RF) energy, 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 (RF) energy from wireless phones can interact with some electronic devices. For this reason, the FDA helped develop a detailed test method to measure Electro Magnetic 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:

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.hpa.org.uk/radiation/)

Driving

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

- 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 or the law require it.

HAC statement

This phone has been tested and rated for use with hearing aids for some of the wireless technologies that it uses.

However, there may be some newer wireless technologies used in this phone that have not been tested yet for use with hearing aids.

It is important to try the different features of this phone thoroughly and in different locations, using your hearing aid or cochlear implant, to determine if you hear any interfering noise.

Consult your service provider or the manufacturer of this phone for information on hearing aid compatibility.

If you have questions about return or exchange policies, consult your service provider or phone retailer.

FCC Hearing-Aid Compatibility (HAC) Regulations for Wireless Devices

While some wireless phones are used near some hearing devices (hearing aids and cochlear implants), users may detect a buzzing, humming, or whining noise. Some hearing devices are more immune than others to this interference noise, and phones also vary in the amount of interference they generate.

The wireless telephone industry has developed a rating system for wireless phones, to assist hearing device users to find phones that may be compatible with their hearing devices. Not all phones have been rated. Phones that are rated have the rating on their box or a label located on the box.

The ratings are not guarantees.

Results will vary depending on the user's hearing device and hearing loss. If your hearing device happens to be vulnerable to interference, you may not be able to use a rated phone successfully.

Trying out the phone with your hearing device is the best way to evaluate it for your personal needs.

M-Ratings: Phones rated M3 or M4 meet FCC requirements and are likely to generate less interference to hearing devices than phones that are not labeled. M4 is the better/

higher of the two ratings.

T-Ratings: Phones rated T3 or T4 meet FCC requirements and are likely to generate less interference to hearing devices than phones that are not labeled. T4 is the better/higher of the two ratings.

Hearing devices may also be rated. Your hearing device manufacturer or hearing health professional may help you find this rating. Higher ratings mean that the hearing device is relatively immune to interference noise. The hearing aid and wireless phone rating values are then added together. A sum of 5 is considered acceptable for normal use. A sum of 6 is considered for best use.



In the above example, if a hearing aid meets the M2 level rating and the wireless phone meets the M3 level rating, the sum of the two values equal M5. This should provide the hearing aid user with "normal usage" while using their hearing aid with the particular wireless phone. "Normal usage" in this context is defined as a signal quality that's acceptable for normal operation.

The M mark is intended to be synonymous with the U mark. The T mark is intended to be synonymous with the UT mark.

The M and T marks are recommended by the Alliance for Telecommunications Industries Solutions (ATIS). The U and UT marks are referenced in Section 20.19 of the FCC Rules.

The HAC rating and measurement procedure are described in the American National Standards Institute (ANSI) C63.19 standard.

To enter that the Hearing Aid Compatibility rating for your phone is maintained, secondary transmitters such as Bluetooth and WLAN components must be disabled during a call.

For information about hearing aids and digital wireless phones Wireless Phones and Hearing Aid Accessibility http://www.accesswireless.org/FCC Hearing Aid Compatibility and Volume Control http://www.fcc.gov/cgb/consumerfacts/hac_wireless.html

Limited Warranty Statement

1 WHAT THIS WARRANTY COVERS:

LG offers you a limited warranty that the enclosed subscriber unit and its enclosed accessories will be free from defects in material and workmanship, according to the following terms and conditions:

- (1) The limited warranty for the product extends for TWELYE (12) MONTHS beginning on the date of purchase of the product with valid proof of purchase, or absent valid proof of purchase, FIFTEEN (15) MONTHS from date of manufacture as determined by the unit's manufacture date code.
- (2) The limited warranty extends only to the original purchaser of the product and is not assignable or transferable to any subsequent purchaser/end user.
- (3) This warranty is good only to the original purchaser of the product during the warranty period as long as it is in the U.S., including Alaska, Hawaii, U.S. Territories and Canada.
- (4) The external housing and cosmetic parts shall be free of defects at the time of shipment and, therefore, shall not be covered under these limited warranty terms.
- (5) Upon request from LG, the consumer must provide information to reasonably prove the date of purchase.
- (6) The customer shall bear the cost of shipping the product to the Customer Service Department of LG. LG shall bear the cost of shipping the product back to the consumer after the completion of service under this limited warranty.

2 WHAT THIS WARRANTY DOES NOT COVER-

- Defects or damages resulting from use of the product in other than its normal and customary manner.
- (2) Defects or damages from abnormal use, abnormal conditions, improper storage, exposure to moisture or dampness, unauthorized modifications, unauthorized connections, unauthorized repair, misuse, neglect, abuse, accident, alteration, improper installation, or other acts which are not the fault of LG, including damage caused by shipping, blown fuses, spills of food or liquid.
- (3) Breakage or damage to antennas unless caused directly by defects in material or workmanship.
- (4) That the Customer Service Department at LG was not notified by consumer of the alleged defect or malfunction of the product during the applicable limited warranty period.
- (5) Products which have had the serial number removed or made illegible.
- (6) This limited warranty is in lieu of all other warranties, express or implied either in fact or by operations of law, statutory or otherwise, including, but not limited to any implied warranty of marketability or fitness for a particular use.
- (7) Damage resulting from use of non LG approved accessories.
- (8) All plastic surfaces and all other externally exposed parts that are scratched or damaged due to normal customer use.
- (9) Products operated outside published maximum ratings.
- (10) Products used or obtained in a rental program.
- (11) Consumables (such as fuses).

3 WHAT I G WILL DO:

LG will, at its sole option, either repair, replace or refund the purchase price of any unit that is covered under this limited warranty. LG may choose at its option to use functionally equivalent re-conditioned, refurbished or new units or parts or any units. In addition, LG will not re-install or back-up any data, applications or software that you have added to your phone. It is therefore recommended that you back-up any such data or information prior to sending the unit to LG to avoid the permanent loss of such information.

4 STATE I AW RIGHTS:

No other express warranty is applicable to this product. THE DURATION OF ANY IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTY OF MARKETABILITY OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, IS LIMITED TO THE DURATION OF THE EXPRESS WARRANTY HEREIN. LG SHALL NOT BE LIABLE FOR THE LOSS OF THE USE OF THE PRODUCT, INCONVENIENCE, LOSS OR ANY OTHER DAMAGES, DIRECT OR CONSEQUENTIAL, ARISING OUT OF THE USE OF, OR INABILITY TO USE, THIS PRODUCT OR FOR ANY BERACH OF ANY EXPRESS OR IMPLIED WARRANTY, INCLUDING THE IMPLIED WARRANTY OF MARKETABILITY OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE APPLICABLE TO THIS PRODUCT.

Some states do not allow the exclusive limitation of incidental or consequential damages or limitations on how long an implied warranty lasts; so these limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

5. HOW TO GETWARRANTY SERVICE:

To obtain warranty service, please call or fax to the following telephone numbers from anywhere in the continental United States:

Tel. 1-800-793-8896

Or visit http://us.lgservice.com. Correspondence may also be mailed to: LG Electronics Service- Mobile Handsets, P.O. Box 240007, Huntsville, AL 35824

DO NOT RETURN YOUR PRODUCT TO THE ABOVE ADDRESS. Please call or write for the location of the LG authorized service center nearest you and for the procedures for obtaining warranty claims.