




## Access the Settings menu

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

## WIRELESS & NETWORKS

### < Airplane mode >

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




### < Wi-Fi >

Tap the **Wi-Fi** switch  to turn Wi-Fi on and connect to available Wi-Fi networks. Tap again to turn Wi-Fi off.


#### **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** > **MAC address**.

### < Bluetooth >

Tap the **Bluetooth** switch  to turn Bluetooth on and connect to available Bluetooth devices. Tap again to turn Bluetooth off.

### < Mobile data >

Displays the data usage and allows you to set the mobile data usage limit.

### < Call >

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

**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.

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

**Call reject** – Allows you to set the call reject function. Choose from **Call reject mode** or **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.

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

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

**Hearing aids** – Checkmark enables hearing aid compatibility.

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

< More... >

**USB tethering & Mobile Hotspot** – Allows you to share mobile network via Wi-Fi and you can configure portable Wi-Fi hotspot settings.

## Wi-Fi Calling

**Important!** Wi-Fi Calling requires that you use the SIM card that is shipped with your phone. Also, you must register your address for 9-1-1. Wi-Fi Calling will not work until you have registered for 9-1-1 by logging into your account at [www.metropcs.com](http://www.metropcs.com). Go to your profile and click **Customer Info** and continue on to enter your address.

## About Wi-Fi Calling

Wi-Fi Calling can improve your coverage and allows you to make phone calls and send messages over a Wi-Fi network (when a Wi-Fi network is available). Unless your rate plan provides otherwise, Wi-Fi Calling minutes count the same as MPCS cellular calling minutes on your phone bill.

-To use Wi-Fi Calling, you must first turn on Wi-Fi, connect to a Wi-Fi network, and then turn on Wi-Fi Calling.

-When the Wi-Fi Calling feature is on, your phone displays the **Wi-Fi Calling** icon on the Status Bar.

- To stay on a Wi-Fi call, you must remain within range of the Wi-Fi network. Your call will drop as you leave the Wi-Fi range. When your Wi-Fi signal weakens, your phone will beep and display a warning message alerting you that your call will drop if the signal gets weaker.

Wi-Fi Calling offers three connection options:

- **Wi-Fi Preferred:** All calls are made over an available Wi-Fi network. If there are no available Wi-Fi networks calls are made over the cellular network.

- **Cellular Network Preferred:** All calls are made over the cellular network unless the cellular network is not available, then calls are made over an available Wi-Fi network.

- **Never use Cellular Network:** All calls are made over an available Wi-Fi network. If there are no available Wi-Fi networks, your calls will not connect.

**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:

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

**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.

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

## **DEVICE**

< **Sound** >

**Sound profile** – Choose Sound, Vibrate only or Silent.

**Volumes** – Manage the volume of Phone ringtone, Notification sound,

Touch feedback & system, Music, video, games and other media.

**Quiet time** – Set times to turn off all sounds except alarm and media.

**Ringtone with vibration** – Vibration feedback for calls and notifications.

**Phone ringtone** – Allows you to set your default incoming call ringtone.

**Notification sound** – Allows you to set your default notification ringtone.

**Dial pad touch tones** – Allows you to set the phone to play tones when using the dialpad to dial numbers.

**Touch sounds** – Allows you to set your phone to play a sound when you touch buttons, icons and other onscreen items that react to your touch.

**Screen lock sound** – Allows you to set your phone to play a sound when locking and unlocking the screen.

**Vibrate on touch** – Allows you to set the vibration feedback when the phone screen is touched.

< Display >

**Brightness** – Adjust the screen brightness.

**Screen timeout** – Set the time for screen timeout.

**Auto-rotate screen** – Set to switch orientation automatically when you rotate the phone.

**Font type** – Change the type of display font.

**Font size** – Change the size of the display font.

**Front key light** – Set the front key light duration.

**Aspect ratio correction** – Change the resolution size of downloaded applications to fit the screen size.

< Home screen >

**Theme** - Sets the screen theme for your device.

**Animation** - Sets the device to use the available animations.

**Screen swipe effect** - Sets the effect when you swipe to change screens.

**Wallpaper** - Sets the wallpaper to use on your Home screen.

**Portrait view only** - Checkmark to always display the Home screen in portrait view.

**Scroll screens circularly** - Checkmark to set the Home screens to scroll continuously, eliminating the need to scroll back in the opposite direction when you reach one end.

**Home backup & restore** - Allows you to backup and restore app and widget configurations and themes.

< **Lock screen** >

**Select screen lock** – Set a screen lock type to secure your phone. Choose from **None**, **Swipe**, **Face Unlock**, **Pattern**, **PIN** or **Password**.

**Wallpaper** – Select the wallpaper for your lock screen from Gallery or Wallpaper gallery.

**Clocks & shortcuts** – Customize clocks and shortcuts on the lock screen.

**Screen effect** – Select the screen effect.

**Owner info** – Show owner info on the lock screen.

**Lock timer** – Set the lock time after screen timeout.

**Power button instantly locks** – Set the screen lock when the power button is pressed.

**Vibrate on touch** – Allows you to set the vibration feedback for phone screen touch.

< **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 you'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.

#### < Power saver >

Manage the battery use and select the features you want to turn off or change when the battery is low. You can also check the battery use.

#### < Apps >

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

## PERSONAL

#### < Accounts & sync >

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

#### < Location access >

**Access to my location** – Lets apps that have asked your permission use your location information.

**GPS satellites** – Lets apps use GPS satellites to determine your location to street-level accuracy.

**Wi-Fi & mobile network location** – Let apps use Google's location service to estimate your location faster. Anonymous location data will be collected and sent to Google.

#### < Security >

**Set up SIM card lock** – Set up Micro SIM card lock or change the Micro SIM PIN.

**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.

**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 >

**Backup 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.

**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.

## SYSTEM

### < Date & time >


Use **Date & time** settings 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.

**NOTE** Requires additional plug-ins to become selectable.

## SERVICES

- **TalkBack:** Allows you to set up the TalkBack function which assists people with impaired vision by providing verbal feedback. Tap the **TalkBack** switch  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.


## VISION

- **Install web scripts:** Allows you to enable (or disable) installation of web scripts.
- **Large text:** Checkmark to increase the size of the text.
- **Invert color:** Checkmark to invert color.
- **Shades:** Set the screen to be shade of black.


## HEARING

- **Vibrate type:** Set vibrate type for calls, notifications and touch feedbacks.
- **Mono audio:** Checkmark to allow headset sound routed both right and left channel.

## PHYSICAL AND MOTOR

- **Touch & hold delay:** Sets the touch and hold delay (short, medium, or long).
- **Universal touch:** Tap  to toggle between on and off. Assistive touch can replace all hardware buttons.

## SYSTEM

- **Auto-rotate screen:** Checkmark to allow the device to rotate the screen depending on the device orientation (portrait or landscape).
- **Speak passwords:** Checkmark so that you can say your log in passwords (instead of typing your passwords).
- **Power button 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.



- **Easy access:** Allows you to select easy access.
- **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.

#### < PC connection >

**USB connection type** – 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 **Camera (PTP)**.

**Ask on connection** – Ask in USB connection mode when connecting to a computer.

**Help** – Displays connection settings information.

#### < Developer options >

Keep in mind that turning on these developer settings may result in irregular device behavior. The developer options are recommended only for advanced users.

**Take bug report** - This will collect information about your current device state, to send as an email message.

**Desktop backup password** - Sets a password to back up the desktop.

**Stay awake** - Checkmark to set the screen to never timeout while charging.

**Protect SD card** - Checkmark to protect the microSD card. When the microSD card is protected, applications must request permission to read data from external storage.

#### DEBUGGING

**USB debugging** - Checkmark to turn on debug mode when USB is connected.

**Allow mock locations** - Checkmark to set the device to a mock location.

**Select debug app** - Allows you to select the debugging application.

**Wait for debugger** - Checkmark to wait for debugger. Debugged application waits for debugger to attach before executing.

## INPUT

**Show touches** - Checkmark to show visual feedback when the screen is tapped.

**Show touch data** - Checkmark to make touch data visible on the screen.

## DRAWING

**Show layout bounds** - Checkmark to show clip bounds, margins, etc.

**Show GPU view updates** - Checkmark to flash views inside windows when drawn with the GPU.

**Show screen updates** - Checkmark to flash areas of the screen when they are updated.

**Window animation scale** - Allows you to set the window animation scale.

**Transition animation scale** - Allows you to set the transition animation scale.

**Animator duration scale** - Allows you to set the animator duration scale.

**Disable HW overlays** - Checkmark to use the GPU for screen compositing.

**Force GPU rendering** - Checkmark to use the 2D hardware acceleration in applications.

## MONITORING

**Enable strict mode** - Checkmark to flash the screen when applications operate for a long period of time on the main thread.

**Show CPU usage** - Checkmark to overlay the current CPU usage on the screen.

**Profile GPU rendering** - Checkmark to measure rendering time in adb shell `dumpsys gfxinfo`.

**Enable traces** - Allows you to select enabled traces.

## APPS

**Don't keep activities** - Checkmark to force stop every activity as soon as the user leaves it.

**Background process limit** - Allows you to set the background process limit.

**Show all ANRs** - Checkmark to show a dialog box when applications running in the background are not responding.

**< About phone >**

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

**System updates** - 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.

**Phone identity** - Allows you to view the model number, phone number, IMEI, IMEI SV, ICCID, and Up time.

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

**Hardware information** - Allows you to view Wi-Fi MAC address, Bluetooth address, and hardware version.

**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

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**  > **System settings** > **About phone** > **Software information**.

To perform the phone software update, from the Home screen, tap the **Menu Key**  > **System settings** > **About phone** > **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.

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.

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

**Travel adapter**



**Data cable**

Connect your LGMS659 and PC.



**User Guide**

Learn more about your LGMS659.



**Battery**



**NOTE**

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

### **Ambient Temperatures**

**Max:** +55°C (discharging), +45°C (charging)

**Min:** -10°C

### **Battery Standby and Talk Time**

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

## **TIA Safety Information**

The following is the complete TIA Safety Information for wireless handheld phones.

### **Exposure to Radio Frequency Signal**

Your wireless handheld portable phone is a low power radio transmitter and receiver. When ON, it receives and 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)

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

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).

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:

Don't 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 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.

## 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 (6) 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;
- Should turn the phone OFF immediately if there is any reason to suspect that interference is taking place.

**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.

## 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 times after reading it.

### **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 this standard. 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-1725-200x. Use of an unqualified battery may present a risk of fire, explosion, leakage or other hazard.
- 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.
- For those host devices that utilize a USB port as a charging source, check the host device's user manual for the USB-IF logo or some other means to ensure that it has 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.
- Only use the approved battery charger. Otherwise, you may cause serious damage to your phone.
- Use the correct adapter for your phone when using the battery pack charger abroad.

## Battery Information and Care

- Always unplug the charger from the wall socket after the phone is fully charged to save unnecessary power consumption of the charger.
- Please dispose of your battery properly or take it to your local wireless carrier for recycling.
- The battery doesn't need to be empty before recharging.
- Use only LG-approved chargers specific to your phone model since they are designed to maximize battery life.
- Do not disassemble or short-circuit the battery.
- 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, Browser, 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'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. Always cover the receptacle when not in use.
- Don't 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.
- 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. (Ringtones, text messages, voice messages, photos, 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.
- Use accessories, such as earphones and headsets, with caution. Ensure that cables are tucked away safely and do not touch the antenna unnecessarily.
- Do not use your device for long periods of time while a part of your body is making direct contact with it. The temperature of the product may increase during normal operation and this may result in harming or burning your skin.

**Caution:****Avoid potential hearing loss.**

Prolonged exposure to loud sounds (including music) is the most common cause of preventable hearing loss. Some scientific research suggests that using portable audio devices, such as portable music players and cellular telephones, at high volume settings for long durations may lead to permanent noise induced hearing loss. This includes the use of headphones (including headsets, earbuds and Bluetooth® or other wireless devices). Exposure to very loud sound has also been associated in some studies with tinnitus (a ringing in the ear), hypersensitivity to sound and distorted hearing. Individual susceptibility to noise-induced hearing loss and other potential hearing problems varies.

The amount of sound produced by a portable audio device varies depending on the nature of the sound, the device, the device settings and the headphones. You should follow some commonsense recommendations when using any portable audio device:

- Set the volume in a quiet environment and select the lowest volume at which you can hear adequately.
- When using headphones, turn the volume down if you cannot hear the people speaking near you or if the person sitting next to you can hear what you are listening to.
- Do not turn the volume up to block out noisy surroundings. If you choose to listen to your portable device in a noisy environment, use noise-cancelling headphones to block out background environmental noise.
- Limit the amount of time you listen. As the volume increases, less time is required before your hearing could be affected.
- Avoid using headphones after exposure to extremely loud noises, such as rock concerts, that might cause temporary hearing loss. Temporary hearing loss might cause unsafe volumes to sound normal.
- Do not listen at any volume that causes you discomfort. If you experience ringing in your ears, hear muffled speech or experience any temporary hearing difficulty after listening to your portable audio device, discontinue use and consult your doctor.

You can obtain additional information on this subject from the following sources:

### **American Academy of Audiology**

11730 Plaza American Drive, Suite 300

Reston, VA 20190

Voice: (800) 222-2336

Email: [info@audiology.org](mailto:info@audiology.org)

Internet: [www.audiology.org](http://www.audiology.org)

### **National Institute on Deafness and Other Communication Disorders**

National Institutes of Health

31 Center Drive, MSC 2320

Bethesda, MD USA 20892-2320

Voice: (301) 496-7243

Email: [nidcdinfo@nih.gov](mailto:nidcdinfo@nih.gov)

Internet: <http://www.nidcd.nih.gov/health/hearing>

### **National Institute for Occupational Safety and Health**

Hubert H. Humphrey Bldg.

200 Independence Ave., SW

Washington, DC 20201

Voice: 1-800-35-NIOSH (1-800-356-4674)

Internet:

<http://www.cdc.gov/niosh/topics/noise/default.html>



## 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 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 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 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 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/cgb/cellular.html>) 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 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 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:

FDA web page on wireless phones (<http://www.fda.gov>), under “C” in the subject index, select Cell Phones > Research.

Federal Communications Commission (FCC) RF Safety Program (<http://www.fcc.gov/oet/rfsafety/>)

International Commission on Nonionizing Radiation Protection (<http://www.icnirp.de>)

World Health Organization (WHO) International EMF Project (<http://www.who.int/emf>)

Health Protection Agency (<http://www.hpa.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. 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. Don't 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. Do not 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's 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 non-emergency assistance number when necessary. Certain situations you encounter while driving may require attention, but are not urgent enough to merit a call for emergency services. But you 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.

The above tips are meant as general guidelines. Before deciding to use

your mobile device while operating a vehicle, it is recommended that you consult your applicable jurisdiction's local laws or other regulations regarding such use. Such laws or other regulations may prohibit or otherwise restrict the manner in which a driver may use his or her phone while operating a vehicle.

## **Consumer Information on SAR**

### **(Specific Absorption Rate)**

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

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

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

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

This device was tested for typical body-worn operations with the back of the phone kept 0.39 inches (1.0 cm) 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 (1.0 cm) 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 may not be used. Body-worn accessories that cannot maintain 0.39 inches (1.0 cm) separation distance between the user's body and the back of the phone, and have not been tested for typical body-worn operations may not comply with FCC RF exposure limits and should be avoided.

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

The highest SAR value for this model phone when tested for use at the ear is 1.16 W/kg and when worn on the body, as described in this user's manual, is 1.289 W/kg. While there may be differences between SAR levels of various phones and at various positions, they all meet the government requirement for safe exposure.

SAR information on this model phone is on file with the FCC and can be found under the Display Grant section of <http://www.fcc.gov/oet/ea/fccid/> after searching on FCC ID ZNFMS659.

To find information that pertains to a particular model phone, this site uses the phone FCC ID number which is usually printed somewhere on the case of the phone. Sometimes it may be necessary to remove the battery pack to find the number. Once you have the FCC ID number for a particular phone, follow the instructions on the website and it should provide values for typical or maximum SAR for a particular phone.

Additional information on Specific Absorption Rates (SAR) can be found

on the Cellular Telecommunications Industry Association (CTIA) website at <http://www.ctia.org/>

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

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

On July 10, 2003, the U.S. Federal Communications Commission (FCC) Report and Order in WT Docket 01-309 modified the exception of wireless phones under the Hearing Aid Compatibility Act of 1988 (HAC Act) to require digital wireless phones be compatible with hearing-aids. The intent of the HAC Act is to ensure reasonable access to telecommunications services for persons with hearing disabilities.

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 example to the left, 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.

When you’re talking on a cell phone, it’s recommended that you turn the BT (Bluetooth) or WLAN mode off for HAC.

For information about hearing aids and digital wireless phones  
Wireless Phones and Hearing Aid Accessibility

<http://www.accesswireless.org/Home.aspx>

FCC Hearing Aid Compatibility and Volume Control

[http://www.fcc.gov/cgb/consumerfacts/hac\\_wireless.html](http://www.fcc.gov/cgb/consumerfacts/hac_wireless.html)

**DivX Mobile** 


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



Category	Sub-Category	Question	Answer
Bluetooth	Bluetooth Devices	What are the functions available via Bluetooth?	Connecting to Stereo/Mono Headset, Car Kit, FTP server is possible. When it's connected to another phone via Bluetooth, you can receive Contacts data.
Bluetooth	Bluetooth Headset	If my Bluetooth headset is connected, can I listen to my music through my 3.5mm wired headphones?	When a Bluetooth headset is connected, all system sounds are played over the headset. As a result, you will not be able to listen to music through your wired headphones.
Data	Contacts Backup	How can I back up Contacts?	The Contacts data can be synchronized between your phone and Gmail™.
Data	Synchronization	Is it possible to set up one-way-sync with Gmail?	Only two-way synchronization is available.
Data	Synchronization	Is it possible to synchronize all the Email folders?	The Inbox is automatically synchronized. You can view other folders by touching the <b>Menu Key</b>  and selecting <b>Folders</b> .
Data	Synchronization	Is it possible to transfer Contacts data from a feature phone to an Android™ phone?	Yes, if your contacts can be extracted into a .CSV file. <b>How to transfer:</b> 1. Create "CSV" file with the contacts on your current phone (you may be able to use the PC suite software provided by LGE). 2. Log into Gmail with your PC. 3. Click <b>Contacts</b> . 4. Click <b>Import</b> . 5. Attach the ".CSV" file. 6. Your contacts will then be synchronized between your Android™ phone and Gmail.

Category	Sub-Category	Question	Answer
Google Service	Gmail Log-In	Should I have to log into Gmail whenever I want to access Gmail?	Once you log into Gmail, you don't need to log in Gmail again.
Google Service	Google Account	Is it possible to filter emails?	No, email filtering is not supported via the phone.
Phone Function	YouTube™	Is it possible to play YouTube videos?	Yes, YouTube videos are supported but may have to be viewed through the YouTube application (and not the Browser).
Phone Function	Email	What happens when I execute another application while writing an email?	Your email will automatically be saved as a draft.
Phone Function	Ringtone	Is there a file size limitation for when I want to use a .MP3 file as a ringtone?	There is no file size limitation.
Phone Function	Message Time	My phone does not display the time of receipt for messages older than 24 hours. How can I change this?	Open the message thread, then touch and hold the desired message and select <b>View message details</b> .






Category	Sub-Category	Question	Answer
Phone Function	microSD Card	What is the maximum supported size for a memory card?	32GB memory cards are compatible.
Phone Function	Navigation	Is it possible to install another navigation application on my phone?	Any application that is available on Play Store and is compatible with the hardware can be installed and used.
Phone Function	Synchronization	Is it possible to synchronize my contacts from all my email accounts?	Only Gmail and MS Exchange server (Company Email Server) contacts can be synchronized.
Phone Function	Wait and Pause	Is it possible to save a contact with Wait and Pause in the numbers?	<p>If you transferred a contact with the Wait and Pause functions saved into the number, you will not be able to use those features. You will need to re-save each number.</p> <p><b>How to re-save numbers with Wait and Pause:</b></p> <ol style="list-style-type: none"> <li>1. From the Home screen, touch the <b>Phone Key</b> .</li> <li>2. Dial the number, then touch the <b>Menu Key</b> .</li> <li>3. Touch <b>Add 2-sec pause</b> or <b>Add wait</b>.</li> </ol>
Phone Function	Security	What are the phone's security functions?	You are able to set the phone to require the entry of an unlock sequence (face unlock, pattern, PIN, or password) before the phone can be accessed or used.
Phone Function	Unlock Pattern	What should I do if I forget my Unlock Pattern?	After attempting the Unlock Pattern 5 times, you can touch the <b>Forgot Pattern?</b> option and use your Google Account information or Backup PIN to unlock your phone.

Category	Sub-Category	Question	Answer
Phone Function	Unlock Pattern	How do I create the Unlock Pattern?	<ol style="list-style-type: none"> <li>1. From the Home screen, touch the <b>Menu Key</b> .</li> <li>2. Touch <b>Lock screen settings &gt; Select screen lock</b>.</li> <li>3. Touch <b>Pattern</b>. The first time you do this, a short tutorial about creating an unlock pattern appears.</li> <li>4. Set up by drawing your pattern once &gt; <b>Continue</b>, draw again &gt; <b>Confirm</b>.</li> </ol>
Phone Function	Speed Dial	Is Speed Dialing supported?	<p>Yes. You can set Speed Dials as well as save a contact directly on your Home screen.</p> <p><b>To set a Speed Dial:</b></p> <ol style="list-style-type: none"> <li>1. Open the <b>Contacts</b> application.</li> <li>2. Touch the <b>Menu Key</b>  &gt; <b>Speed dial</b>.</li> <li>3. Touch the speed dial location and select the desired contact.</li> </ol> <p><b>To set a Direct Dial shortcut to your Home screen:</b></p> <ol style="list-style-type: none"> <li>1. Touch and hold an empty area on your Home screen.</li> <li>2. Touch <b>Widgets &gt; Direct dial</b>.</li> <li>3. Select a contact from your Contacts List.</li> </ol>
Phone Function	Memory	Will I know when my memory is full?	Yes, you will receive a notification.
Phone Function	Language Support	Is it possible to change the language?	<p>The phone has multi-lingual capabilities.</p> <p><b>To change the language:</b></p> <ol style="list-style-type: none"> <li>1. From the Home screen, touch the <b>Menu Key</b>  &gt; <b>System settings</b>.</li> <li>2. Touch <b>Language &amp; input &gt; Language</b>.</li> <li>3. Touch the desired language.</li> </ol>

Category	Sub-Category	Question	Answer
Phone Function	VPN	How do I set up a VPN?	VPN access configuration is different according to each company. To configure VPN access from your phone, you must obtain the details from your company's network administrator.
Phone Function	Screen time out	My screen turns off after only 30 seconds. How can I change the amount of time for the backlight to turn off?	<ol style="list-style-type: none"> <li>1. From the Home screen, touch the <b>Menu Key</b> .</li> <li>2. Touch <b>System settings &gt; Display &gt; Screen timeout</b>.</li> <li>3. Touch the preferred screen backlight timeout time.</li> </ol>
Phone Function	Wi-Fi & 4G	When Wi-Fi and 4G are both available, which service will my phone use?	<p>When using data, your phone may default to the Wi-Fi connection (if Wi-Fi connectivity on your phone is set to On). However, there will be no notification when your phone switches from one to the other.</p> <p>To know which data connection is being used, use the 4G or Wi-Fi icon at the top of your screen.</p>
Phone Function	Home screen	Is it possible to remove an application from the Home screen?	Yes. Just touch and hold the icon until the <b>Remove</b> bar appears at the top of the screen. Then, without lifting your finger, drag the icon to the <b>Remove</b> bar.
Phone Function	Application	I downloaded an application and it causes a lot of errors. How do I remove it?	<ol style="list-style-type: none"> <li>1. From the Home screen, touch the <b>Menu Key</b> .</li> <li>2. Touch <b>App settings</b></li> <li>3. Touch the application &gt; <b>Uninstall &gt; OK</b>.</li> </ol>

Category	Sub-Category	Question	Answer
Phone Function	Ringtones	Can I use music files for my ringtones?	Yes. After saving a music file, you can use it for your ringtone. Touch and hold a song in a library list. In the menu that opens, touch <b>Set as ringtone</b> .
Phone Function	Alarm	Will my alarm be audible or will it go off if the phone is turned off?	No, this is not supported.
Phone Function	Alarm	If my Ringer Volume is set to <b>Off</b> or <b>Vibrate</b> , will I hear my alarm?	Your alarm is programmed to be audible even in these scenarios.
Phone Spec	Battery Time	What is the maximum amount of time my phone's battery will last before I need to recharge it?	Talk time : Approx. 420 min (7 hours max) Standby : Approx. 14 days (336 hours max)
Phone Spec	Band	Which wireless bands are supported by the phone?	Your phone is able to operate on the 850MHz, 1700MHz, 1900MHz and 2100MHz bands.

Category	Sub-Category	Question	Answer
Recovery Solution	Factory Reset	How can I perform a factory reset if I can't access the phone's setting menu?	<p>How to perform a factory reset:</p> <ol style="list-style-type: none"> <li>1. Turn the power off.</li> <li>2. Press and hold the following keys at the same time: <b>Home Key</b>  + <b>Volume Down Key</b>  + <b>Power/Lock Key</b>  .</li> <li>3. Release all of the keys when the Android robot animation is displayed.</li> <li>4. The phone will perform a factory reset and reboot to your Home screen.</li> </ol> <p><b>Attention:</b> If a factory reset is performed, all installed applications and user data will be erased. Please remember to back up any important data before performing a factory reset.</p>
	Battery installing	Phone locked up and does not function	Remove the battery and install it to restart your phone again. (similar to how you may restart your PC/ computer).
	Power Reset		In the case of a malfunction or lock up error, press and hold the Power/Lock Key for 8 seconds to reset the phone.

## 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 TWELVE (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:

- (1) 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 LG WILL DO:**

LG will, at its sole option, either repair, replace or refund the purchase price of any unit that does not conform to 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 LAW RIGHTS:**

No other express warranty is applicable to this product. THE DURATION OF ANY IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTY OF MARKETABILITY, 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 BREACH OF ANY EXPRESS OR IMPLIED WARRANTY, INCLUDING THE IMPLIED WARRANTY OF MARKETABILITY 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 GET WARRANTY SERVICE:**

If you experience any problems with either the Bluetooth headset or the mobile handset, in each case as may be covered by this limited warranty, you need only return the affected device. For example, if a problem exists with the Bluetooth headset, please **DO NOT** return your mobile handset with the headset. Likewise, if a problem exists with the mobile handset, please **DO NOT** return the Bluetooth Headset with the handset.

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 Fax. 1-800-448-4026**

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.



