



OWNER'S MANUAL

**LG** **optimus**<sup>™</sup> *m+*

P/NO : MFL67453001 (1.1) **H**

[www.lg.com](http://www.lg.com)

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# LG OPTIMUS<sup>m+</sup> User Guide

- All screen shots in this guide are simulated. Actual displays and the color of the phone may vary. Some of the contents in this manual may differ from your phone depending on the software of the phone or your service provider.
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**WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or reproductive harm.

*Wash hands after handling.*

When using this product, the safety precautions below must be taken to avoid possible legal liabilities and damages.

Retain and follow all product safety and operating instructions. Observe all warnings in the product operating instructions. To reduce the risk of bodily injury, electric shock, fire, and damage to the equipment, observe the following precautions.

## **ELECTRICAL SAFETY**

This product is intended for use when supplied with power from the designated battery or power supply unit. Other usage may be dangerous and will invalidate any approval given to this product.

## **SAFETY PRECAUTIONS FOR PROPER GROUNDING INSTALLATION**

**CAUTION:** Connecting to improperly grounded equipment can result in an electric shock to your device. This product is equipped with a USB cable for connecting to a desktop or notebook computer. Be sure your computer is properly grounded (earthed) before connecting this product to the computer. The power supply cord of a desktop or notebook computer has an equipment-grounding conductor and a grounding plug. The plug must be plugged into an appropriate outlet which is properly installed and grounded in accordance with all local codes and ordinances.

## **SAFETY PRECAUTIONS FOR POWER SUPPLY UNIT**

### **Use the correct external power source**

A product should be operated only from the type of power source indicated on the electrical ratings label. If you are not sure of the type of power source required, consult your authorized service provider or local power company. For a product that operates from battery power or other sources, refer to the operating instructions that are included with the product.

### Handle battery packs carefully

This product contains a Li-ion battery. There is a risk of fire and burns if the battery pack is handled improperly. Do not attempt to open or service the battery pack. Do not disassemble, crush, puncture, short external contacts or circuits, dispose of in fire or water, or expose a battery pack to temperatures higher than 60°C (140°F).

**WARNING:** *Danger of explosion if battery is incorrectly replaced. To reduce risk of fire or burns, do not disassemble, crush, puncture, short external contacts, expose to temperature above 60°C (140°F), or dispose of in fire or water. Replace only with specified batteries. Recycle or dispose of used batteries according to the local regulations or reference guide supplied with your product.*

### Take extra precautions

- Keep the battery or device dry and away from water or any liquid as it may cause a short circuit.
- Keep metal objects away so they don't come in contact with the battery or its connectors as it may lead to short circuit during operation.
- The phone should be only connected to products that bear the USB-IF logo or have completed the USB-IF compliance program.
- Do not use a battery that appears damaged, deformed, or discolored, or one that has any rust on its casing, overheats, or emits a foul odor.
- Always keep the battery out of the reach of babies and small children, to avoid swallowing of the battery. Consult a doctor immediately if the battery is swallowed.
- Only use the battery with a charging system that has been qualified with the system per this standard, IEEE-Std-1725-200x. Use of an unqualified battery or charger may present a risk of fire, explosion, leakage or other hazard.
- 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.
- 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.

- If the battery leaks:

Do not allow the leaking fluid to come in contact with skin or clothing. If contact occurs, flush the affected area immediately with clean water and seek medical advice.

Do not allow the leaking fluid to come in contact with eyes. If contact occurs, DO NOT rub; rinse with clean water immediately and seek medical advice.

Take extra precautions to keep a leaking battery away from fire as there is a danger of ignition or explosion.

## SAFETY PRECAUTIONS FOR DIRECT SUNLIGHT

Keep this product away from excessive moisture and extreme temperatures. Do not leave the product or its battery inside a vehicle or in places where the temperature may exceed 140°F (60°C), such as on a car dashboard, window sill, or behind glass that is exposed to direct sunlight or strong ultraviolet light for extended periods of time. This may damage the product, overheat the battery, or pose a risk to the vehicle.

## PREVENTION OF HEARING LOSS

**CAUTION:** *Permanent hearing loss may occur if earphones or headphones are used at high volume for prolonged periods of time.*

## SAFETY IN AIRCRAFT

Due to the possible interference caused by this product to an aircraft's navigation system and its communications network, using this device's phone function on board an airplane is against the law in most countries. If you want to use this device when its use is restricted on board an aircraft, remember to switch to Airplane Mode which turns off RF functions that could cause interference.

### ENVIRONMENT RESTRICTIONS

Do not use this product in gas stations, fuel depots, chemical plants or where blasting operations are in progress, or in potentially explosive atmospheres such as fueling areas, fuel storehouses, below deck on boats, chemical plants, fuel or chemical transfer or storage facilities, and areas where the air contains chemicals or particles, such as grain, dust, or metal powders. Please be aware that sparks in such areas could cause an explosion or fire resulting in bodily injury or even death.

### EXPLOSIVE ATMOSPHERES

When in any area with a potentially explosive atmosphere or where flammable materials exist, the product should be turned off and the user should obey all signs and instructions. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death. Users are advised not to use the equipment at refueling points such as service or gas stations, and are reminded of the need to observe restrictions on the use of radio equipment in fuel depots, chemical plants, or where blasting operations are in progress. Areas with a potentially explosive atmosphere are often, but not always, clearly marked. These include fueling areas, below deck on boats, fuel or chemical transfer or storage facilities, and areas where the air contains chemicals or particles, such as grain, dust, or metal powders.

### ROAD SAFETY

Vehicle drivers in motion are not permitted to use communication services with handheld devices, except in the case of emergency. In some countries, using hands-free devices as an alternative is allowed.



## SAFETY PRECAUTIONS FOR RF EXPOSURE

- Avoid using your phone near metal structures (for example, the steel frame of a building).
- Avoid using your phone near strong electromagnetic sources, such as microwave ovens, sound speakers, TV and radio.
- Use only original manufacturer-approved accessories, or accessories that do not contain any metal.
- Use of non-original manufacturer-approved accessories may violate your local RF exposure guidelines and should be avoided.

## INTERFERENCE WITH MEDICAL EQUIPMENT FUNCTIONS

This product may cause medical equipment to malfunction. The use of this device is prohibited in most hospitals and medical clinics.

If you use any personal medical device(s), consult the manufacturer of your device(s) to determine if the device(s) are adequately shielded from external RF energy. Your physician may be able to assist you in obtaining this information. Turn your phone OFF in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.

## 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.

### NON-IONIZING RADIATION

Your device has an internal antenna. This product should be operated in its normal-use position to ensure the radiative performance and safety from interference. As with other mobile radio transmitting equipment, users are advised that for satisfactory operation of the equipment and for personal safety, it is recommended that no part of the human body be allowed to come too close to the antenna during operation of the equipment. Use only the supplied integral antenna. Use of unauthorized or modified antennas may impair call quality and damage the phone, causing loss of performance and SAR levels exceeding the recommended limits as well as result in non-compliance with local regulatory requirements in your country. To assure optimal phone performance and ensure human exposure to RF energy is within the guidelines set forth in the relevant standards, always use your device only in its normal-use position. Contact with the antenna area may impair call quality and cause your device to operate at a higher power level than needed. Avoiding contact with the antenna area when the phone is IN USE optimizes the antenna performance and the battery life.

### HAC

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.

## Cautions

- ▶ The user interface of Google applications (Google Search, Google Maps, Navigation, etc.) can vary depending on its software version.
- ▶ Locations are inaccurate when GPS and Wi-Fi are not set to On.
- ▶ With the Android operating system, some available Market applications only operate correctly with phones that have a specific screen resolution. Please be advised that some of the applications on the Android Market may not be available for your phone due to an LCD resolution requirement that does not match your phone. In addition, please be aware that 3rd party applications with programming defects may cause issues with your phone, including lock-ups and resets.

## Technical Details

CDMA Standard	Designator	Description
<b>Basic Air Interface</b>	TIA/EIA-95A TSB-74 ANSI J-STD-008 TIA/EIA-IS2000	CDMA Dual-Mode Air Interface 14.4kbps Radio Link Protocol and Inter-band Operations IS-95 Adapted for PCS Frequency Band CDMA2000 1xRTT Air Interface
<b>Network</b>	TIA/EIA/IS-634 TIA/EIA/IS-651 TIA/EIA/IS-41-C TIA/EIA/IS-124	MAS-BS PCSC-RS Intersystem Operations Non-Signaling Data Communications

<b>Service</b>	TIA/EIA/IS-96-B TIA/EIA/IS-637 TIA/EIA/IS-657 IS-801 TIA/EIA/IS-707-A	Speech CODEC Short Message Service Packet Data Position Determination Service (gpsOne) High Speed Packet Data
<b>1x EV-DO Related Interface</b>	TIA/EIA/IS-856 TIA/EIA/IS-878 TIA/EIA/IS-866 TIA/EIA/IS-890	CDMA2000 High Rate Packet Data Air Interface  1x EV-DO Inter-Operability Specification for HRPD Access Network Interfaces Recommended Minimum Performance Standards for HRPD High Rate Packet Data Access Terminal  Test Application Specification (TAS) for High Rate Packet Data Air Interface

<b>LTE Standard</b>	<b>Designator</b>	<b>Description</b>
<b>Basic Air Interface</b>	TS 36.101  TS 36.104	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio transmission and reception  Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) radio transmission and reception

<b>Conformance Test</b>		Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: Conformance testing
	TS 36.521-1	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification;
	TS 36.521-2	Radio transmission and reception; Part 2: Implementation Conformance Statement (ICS)
	TS 36.521-3	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 3: Radio Resource Management (RRM) conformance testing

## 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 those international standards.

### **Bodily Contact During Operation**

This device was tested for typical use with the back of the phone kept 0.39 inches (1.0 cm) from the body. 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, including the antenna. Third-party belt-clips, holsters, and similar accessories containing metallic components should not be used. Avoid the use of accessories that cannot maintain 0.39 inches (1.0 cm) distance between the user's body and the back of the phone and have not been tested for compliance with FCC RF exposure limits.

### **Vehicle-Mounted External Antenna**

(Optional, if available.)

To satisfy FCC RF exposure requirements, keep 8 inches (20 cm) between the user / bystander and vehicle-mounted external antenna. For more information about RF exposure, visit the FCC website at [www.fcc.gov](http://www.fcc.gov).

### **FCC Notice and Cautions**

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

Any changes or modifications not expressly approved in this user guide could void your warranty for this equipment. 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.

### **Part 15.19 statement**

This device and its accessories comply with part 15 of FCC rules. Operation is subject to the following two conditions:

(1) This device & its accessories may not cause harmful interference.

(2) This device & its accessories must accept any interference received, including interference that may cause undesired operation

### **Part 15.21 statement**

Changes 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 you experience interference with reception (e.g., television), determine if this equipment is causing the harmful interference by turning the equipment off and then back on to see if the interference is affected. If necessary, try correcting 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.

Important Customer Information.....	3
Technical Details.....	9
Important notice.....	15
Getting to know your phone.....	22
Your Home screen.....	29
Google account setup.....	45
Calls.....	47
Contacts.....	49
Messaging.....	61
Email.....	62
Camera.....	77
Video camera.....	81
Multimedia.....	84
Utilities.....	97
The Web.....	104
Settings.....	119
Safety.....	127





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

## 1. Phone memory

When available space in your phone memory is less than 10%, your phone cannot receive new messages. You need to check your phone memory and delete some data, such as applications or messages, to make more memory available.

### Managing applications

1. From the Home screen, touch the **Applications Key** , > **Settings**  > **Applications > Manage applications**.
2. Once all applications appear, scroll to and select the application you want to uninstall.
3. Tap **Uninstall**, then touch **OK** to uninstall the application you selected.



## 2. Optimizing battery life

Extend your battery's life between charges by turning off features you don't need to run constantly in the background. You can monitor how applications and system resources consume battery power.



### Extending your battery's life

- Turn off radio communications if you are not using them, such as Wi-Fi, Bluetooth, or GPS.
- Reduce screen brightness and set a shorter screen timeout.
- Turn off automatic syncing for Gmail, Calendar, Contacts and other applications.
- Some applications you have downloaded may cause your battery life to be reduced.

### Checking the battery charge level

1. From the Home screen, touch the **Applications Key**  > **Settings**  > **About phone** > **Status**.
2. The battery status (Charging, Not charging) and level (percentage charged) is displayed at the top of the screen.

### Monitoring and controlling what uses the battery

1. From the Home screen, touch the **Applications Key**  > **Settings**  > **About phone** > **Battery use**.
2. Battery usage time is displayed at the top of the screen and lists applications or services using battery power, from greatest amount to least.



## 3. Installing an open source operating system

If you install and use an open source operating system (OS) on your phone rather than using the OS provided by the manufacturer, your phone may malfunction.

**WARNING!** If you install and use an OS other than the one provided by the manufacturer, your phone is no longer covered by the warranty.

To protect your phone and personal data, only download applications from trusted sources, such as Android Market. If there are improperly installed applications on your phone, your phone may not work normally or a serious error may occur. You must uninstall those applications and all their data and settings from the phone.

## 4. Using an unlock pattern

Set the unlock pattern to secure your phone. From the Home screen, touch the **Applications Key**  > **Settings**  > **Location & security** > **Set up screen lock** > **Pattern**. Follow the screens to be guided through drawing a screen unlock pattern by tapping **Next**. Draw your pattern (connect at least 4 dots) and tap **Continue**. Draw your pattern again and tap **Confirm** to set the pattern.

**Caution:** Please create a Gmail account before setting an unlock pattern. This will be useful in the event that you forget the pattern when attempting to unlock your phone.

**WARNING!** Precautions to take when using pattern lock. It is very important to remember the unlock pattern you set. You will not be able to access your phone if you use an incorrect pattern 5 times. You have 5 opportunities to enter your unlock pattern, PIN or password. If you have used all 5 opportunities, you can try again after 30 seconds.

### When you cannot recall your unlock pattern:




If you logged in to your Google account on the phone but failed to enter the correct pattern 5 times, tap the **Forgotten pattern?** button. You are then required to log in with your Google account to unlock your phone. If you have not created a Google account on the phone or you forgot it, you have to perform a hard reset.

**Caution:** If you perform a hard reset, all user applications and user data are deleted. Remember to back up any important data before performing a hard reset.

## 5. Using the hard reset

If it does not restore to the original condition, use a hard reset to initialize your phone.

When the phone is turned off, press and hold the following keys at the same time for about 1 to 2 seconds until the touch key backlights turn on:

**Power/Lock Key**  + **Down Volume Key** . As soon as the backlight on the touch keys is turned on, release the keys. Then touch and hold the **Home Key**  until the LG logo is displayed.

Your phone will perform the hard reset.



**Caution:** If you perform a hard reset, all user applications and user data are deleted. This cannot be reversed. Remember to back up any important data before performing a hard reset.

## 6. Connecting to Wi-Fi networks

To use Wi-Fi on your phone, access a wireless access point or “hotspot.” Some access points are open and you can simply connect to them. Others are hidden or use security features; you must configure your phone to be able to connect to them.

Turn off Wi-Fi when you're not using it to extend the life of your battery.

### Turning Wi-Fi on and connecting to a Wi-Fi network



1. From the Home screen, touch the **Applications Key**  > **Settings**  > **Wireless & networks** > **Wi-Fi settings**.
2. Touch the **Wi-Fi** check box to turn it on and begin scanning for available Wi-Fi networks.
  - A list of available Wi-Fi networks is displayed. Secured networks are indicated by a lock icon.
3. Touch a network to connect to it.
  - If the network is open, you are asked to confirm that you want to connect to that network by touching **Connect**.
  - If the network is secure, you're asked to enter a password or other credentials. Ask your network administrator for details.
4. The Status Bar displays icons that indicate Wi-Fi status.

## 7. Using a microSD card

### Unmounting and removing the microSD Card

To safely remove the microSD card from your device, first you need to unmount the microSD card before removing it from the phone.



**WARNING!** On the Android OS 2.3, you can download applications from Android Market and can store them on the microSD card as well as on the device. Therefore, skipping the unmount procedure can cause a serious error between the microSD card and the device. In the worst case, the microSD card can become corrupted or damaged.

1. From the Home screen, touch the **Applications Key**  > **Settings**  > **Storage** > **Unmount SD card** > **OK**. Now you can safely remove the microSD card.
2. Remove the back cover and locate the microSD card slot.
3. Gently pull the exposed edge of the microSD card to remove it from the slot.

**NOTE** You can easily damage the microSD card and its adapter by improper operation. Please be careful when inserting, removing, or handling them.

## Formatting the microSD Card



Erase all data on the SD card, such as music and photo. You must first unmount to microSD card prior to formatting it.

1. From the Home screen, touch the **Application Key**  > **Settings**  > **Storage**.
  2. Touch **Unmount SD card** and **OK** to release the microSD card from device use. The icon appears within the Notifications panel to indicate an unmounted microSD card.
  3. Once released, touch **Erase SD card** > **Erase SD card** > **Erase everything**.
- Once completely formatted, the microSD is automatically re-mounted (reconnected for use by the device).

**NOTE** The formatting procedure erases all the data on the microSD card, after which the files CANNOT be retrieved. To prevent the loss of important data, please check the contents before you format the card.



## 8. Storage Settings

### Viewing Memory in the microSD Card and Internal memory

1. From the Home screen, touch the **Applications Key**  > **Settings**  > **Storage**.
2. Review the available information.


### Formatting the Internal memory

Formatting the internal memory permanently removes all files stored on the device.

1. From the Home screen, touch the **Applications Key**  > **Settings**  > **Storage**.
2. Touch **Erase internal memory** > **Erase internal memory** > **Erase everything**.

## Device memory



The LG OPTIMUS<sup>m+</sup> has 2 GB of internal memory where you can store user content such as photos, videos, voice recordings, etc. In addition, it also supports removable microSD card up to 32 GB. Most applications allow you to choose where the user content will be saved either in the internal memory or to the removable microSD card.


For example, in the Camera application, touch **Settings**  > **Storage** > **Internal memory** or **SD card**. When viewing the Gallery application, photos saved in the internal memory are stacked separately from those saved to the SD card.

## 9. Opening and switching applications

Multitasking is easy with Android because you can keep more than one application running at the same time. There's no need to quit an application before opening another. Use and switch between several open applications. Android manages each application, stopping and starting them as needed to ensure that idle applications don't consume resources unnecessarily.

### Stopping applications

1. From the Home screen, touch the **Applications Key**  > **Settings**  > **Applications** > **Manage applications**.
2. Scroll to the desired application and touch **Force stop** to close the application.

**TIP** To return to your recently used applications, touch and hold the **Home Key** . A screen then displays a list of the applications you used recently.

## 10. Hold your phone straight up

Please hold the mobile phone straight up as a regular phone. The LG OPTIMUS<sup>m+</sup> has an internal antenna. Be careful not to scratch or damage the back of the phone, as that causes loss of performance.

While making/receiving calls or sending/receiving data, avoid holding the lower part of the phone where the antenna is located. Doing so may affect call quality.

## 11. When the screen freezes

If the screen freezes or the phone does not respond when you try to operate it:

Remove the battery, reinsert it, then turn the phone on. If it still does not work, please contact the service center.

## 12. Do not connect your phone when you turn on/off your PC.

Make sure you disconnect the data cable between your phone and PC; leaving it connected might cause errors on your PC.



## DivX Mobile **DIVX**

**ABOUT DIVX VIDEO:** DivX<sup>®</sup> is a digital video format created by DivX, LLC, a subsidiary of Rovi Corporation. This is an official DivX Certified<sup>®</sup> device that plays DivX video. Visit [divx.com](http://divx.com) for more information and software tools to convert your files into DivX videos.

**ABOUT DIVX VIDEO-ON-DEMAND:** This DivX Certified<sup>®</sup> 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](http://vod.divx.com) for more information on how to complete your registration.

DivX Certified<sup>®</sup> to play DivX<sup>®</sup> video up to 640x480, including premium content.

DivX<sup>®</sup>, DivX Certified<sup>®</sup> and associated logos are trademarks of Rovi Corporation or its subsidiaries and are used under license.

To turn on your phone, press and hold the **Power/Lock Key**  for 3 seconds. To turn off the phone, press and hold the **Power/Lock Key**  for 3 seconds, then touch **Power off** and **OK**.



**WARNING!** Placing a heavy object on the phone or sitting on it can damage the LCD and touch screen functions. Do not cover the protective film on the LCD's proximity sensor. This may cause the sensor to malfunction.

- 1. Earpiece** Lets you hear callers and automated prompts.
- 2. Proximity Sensor** Senses proximity towards other objects (such as your head) so that touch commands are not accidentally activated during a call.
  - NOTES**
    - Do not block the sensor or near sensor to avoid problems with the touch operations.
    - The use of a film cover produced by manufacturers other than LG can cause a disturbance in touch operation, the display, etc.
- 3. Quick Keys**
  - **Phone Key** Opens the **Phone** application for access to the dial pad, Call log, Contacts, and Groups.
  - **Contacts Key** Opens the **Contacts** application.
  - **Messaging Key** Opens the **Messaging** application.
  - **Applications Key** Opens the **Applications** screen where you can view all of your installed applications.



4. **Menu Key** Opens an options menu with options that affect the current screen or application.
5. **Home Key** Returns to the Home screen. If you're already viewing one of the Home screen extension panes, it navigates you to the central Home screen pane. Touch and hold to view the most recently used applications.
6. **Power/Lock Key** Locks the screen with a single press. Press and hold to open the phone options menu for the following options: Silent mode, Airplane mode, Restart, and Power off.
7. **Touchscreen** Displays all the information needed to operate your phone, such as applications, call status, date, time, signal status, and battery strength.
8. **Back Key** Returns to the previous screen. Also closes pop-up display items, such as menus and dialog boxes.
9. **Search Key** Opens the Quick Search Box™ from the Home screen to search the phone and the web.

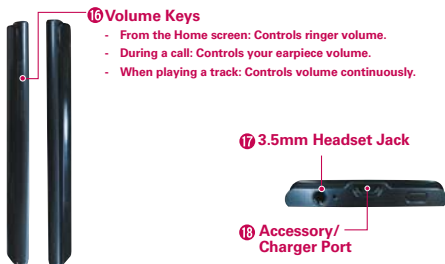


10. **Flash** Helps take pictures and videos in darker lighting.
11. **Camera Lens** Use for taking pictures and recording videos. Keep clean for optimal performance.
12. **microSD Slot** To store multimedia files, such as images captured using the camera, you must insert a memory card into your phone.

13. **Internal Antenna**

14. **Microphone** Transmits your voice to the other caller and for voice-activated functions.

15. **Back Cover** Encloses the battery compartment.



16. **Volume Keys** Allows you to adjust the ringer, media volumes, or the in-call volume during a call.

17. **3.5mm Headset Jack** Allows you to plug in an optional headset for convenient, hands-free conversations. You can also plug in headphones to listen to music.

18. **Accessory/Charger Port** Allows you to connect the phone charger, USB cable, or other compatible accessories.

## Installing the Battery

1. Use the fingertip cutout along the bottom edge of the phone to remove the back cover.
2. Align the battery contacts with the terminals in the battery compartment.
3. Push the battery down until it clicks into place.



4. Place the back cover over the battery compartment, then press it downward until it clicks into place.



## Removing the Battery

1. Turn the phone off and use the fingertip cutout along the bottom edge of the phone to remove the back cover.



- Use the fingertip cutout at the bottom of the battery compartment to lift the battery out and remove it.



## Charging your phone



Slide open the cover of the phone's Accessory/Charger Port on the top edge of your phone. Insert the charger, then plug it into an electrical outlet.

**NOTICE** Please only use an approved charging accessory to charge your LG phone. Improper handling of the Accessory/Charger Port, as well as the use of an incompatible charger, may cause damage to your phone and void the warranty.



## Optimizing Battery Life

You can extend your battery's life between charges by turning off features that run in the background. You can also monitor how applications and system resources consume battery power.



- ▶ From the Home screen, touch the **Applications Key**  > **Settings**  > **Applications > Running services**. Touch the application you want to stop running and touch **Stop**. Then touch **OK** to confirm.

### Tips to extend the life of your battery

- ▶ Turn off radio communications that you aren't using. If you aren't using Wi-Fi, Bluetooth, or GPS, use the Settings menu to turn them off (Note that the GPS receiver is only turned on when you're using an application that makes use of it).



- ▶ Turn down screen brightness and set a shorter screen timeout.
- ▶ Turn off automatic syncing for Gmail, Calendar, Contacts, and other applications if you don't need it.
- ▶ Use the Power Control widget to control the wireless connections, GPS connection, Bluetooth power, display brightness, and syncing activity.

### To check the battery charge level

- ▶ From the Home screen, touch the **Applications Key**  > **Settings**  > **About phone** > **Status**.  
The battery status (Charging or Not charging) and level (as a percentage of fully charged) will be displayed at the top of the screen.

### To monitor and control what uses the battery

The Battery use screen allows you to see which applications are consuming the most battery power. Information on this screen allows you to identify downloaded applications you may want to turn off when not being used, so you can get the most out of your battery power.

- ▶ From the Home screen, touch the **Applications Key**  > **Settings**  > **About phone** > **Battery use**.  
The screen will display battery usage time. A list of applications or services using battery power are displayed in order of energy used, from greatest amount to least.
- ▶ Touch an application in the Battery use screen to see the details about its power consumption. Different applications offer different kinds of information and they may even include options to modify the settings so you can reduce power consumption by that application.

## Installing the microSD card

**NOTE** The LG OPTIMUS™ supports memory cards up to 32 GB.

### To insert a microSD card:

**WARNING!** Do not insert or remove the microSD card when the phone is on. Doing so may damage the microSD card as well as your phone, and the data stored on the microSD card may be corrupted.



1. Use the fingertip cutout along the bottom edge of the phone to remove the back cover.



2. Insert the microSD card into the slot. Make sure the gold contact area is facing downwards.

## Touch screen tips

Here are some tips on how to navigate around your phone.

**Touch** A single finger touch selects items. For example, touch an icon (e.g., application or menu item), touch words (e.g., menu selection or to answer on-screen question), or touch letters and numbers to type.

**Touch and hold** Touch and hold an item on the screen by touching it and not lifting your finger until an action occurs. For example, to open a Context menu for customizing the Home screen, touch an empty area on the Home screen until the menu pops up.



**Drag** Touch and hold an item for a moment and then, without lifting your finger, move your finger on the screen until you reach the target position. You can drag items on the Home screen to reposition them.

**Swipe or slide** To swipe or slide, quickly move your finger across the surface of the screen, without pausing when you first touch it (so you don't drag an item instead). For example, you can drag or slide the screen up or down to scroll a list or browse through the different Home screens by swiping from left to right (and vice versa).


**Double-tap** Double-tap to zoom a web page or a map. For example, quickly double-tap a section of a web page to zoom that section to fit the width of the screen. You can also double-tap to control the zoom in Maps and in other applications.

**Pinch-to-Zoom** Use your index finger and thumb in a pinch or spread motion to zoom in or out when using MetroWEB, a map, or pictures.

**Rotate the screen** From many applications, the orientation of the screen rotates with the phone as you turn it from a vertical position to a horizontal position and back again.

**Capturing a Screen Shot** If you press the Home Key  and Power/Lock Key  at the same time, the current image on the screen is captured. You can find the captured image in the Gallery (Note that you cannot capture an image from a video and some applications).

## Lock your phone

When you are not using the LG OPTIMUS<sup>m+</sup>, press the **Power/Lock Key**  to lock your phone. This helps prevent accidental presses and saves battery power.

Also, if you do not use the phone for a while, the Home screen or another screen you are viewing is replaced with the lock screen to conserve battery power.

If there are any programs running when the screen turns off, they may be still running in Lock mode. It is recommended that you exit all programs before entering Lock mode to avoid unnecessary charges (e.g. phone calls, Web access and data communications).

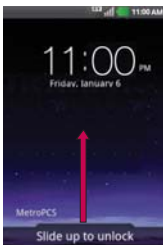
**Setting an unlock pattern:** You can draw your own unlock pattern by connecting a pattern of dots. To unlock the phone, draw the pattern that you set on the screen.

**Caution:** When you set an unlock pattern, you need to create your Google account first.

**Caution:** If there are more than 5 pattern drawing errors in a row, you cannot unlock the phone. In this case, you must perform a hard reset. All of your personal information and downloaded data will be deleted.

## Unlock screen

Whenever your LG OPTIMUS<sup>m+</sup> is not in use, it returns to the lock screen. Drag your finger from bottom to top to unlock the screen.





## Getting to Know the Home Screen

The Home screen is your starting point to access all the features on your phone. It displays application shortcuts, icons, widgets, and other features.

### Status Bar

Shows device status information, including the time, signal strength, battery status, and notification icons.

### Application Icon

Touch an icon (application, folder, etc.) to open the application and use it.



### Quick Keys

Provide easy, one-touch access to the functions you use the most.

### Applications Key

Touch to open the Applications screen to view all of your installed applications.

## Quick Keys

The Quick Keys are located at the bottom of the Home screen and Applications screen.



: Opens the **Phone** application which displays the dial pad so you can dial an unsaved number. It also provides additional tabs to access the Call log, Contacts, and Groups.



: Opens your **Contacts** list. You can also access the Phone application, Call log, and Groups by touching the tabs across the top of the screen.




: Opens the **Messaging** application.



: Opens the **Applications** screen and displays all of the installed applications.

## To return to the Home screen


- ▶ Touch the Home Key  at any time, from any application.

## To view other Home screen panes

- ▶ Slide your finger left or right across the Home screen. The Home screen spans seven screen widths, allowing more space for icons, widgets, shortcuts, and other items.

## Adding widgets to your Home screen

You can customize your Home screen by adding shortcuts, widgets or folders to it. For more convenience using your phone, add your favorite widgets to the Home screen.



1. From the Home screen, touch the **Menu Key**  and select **Add**. Or touch and hold the empty part of the Home screen.
2. In the Edit Mode menu, touch the type of item you want to add.
3. For example, select **Folders** from the list and touch the type of folder you want to add to the Home screen.
4. A new folder icon on the Home screen. You can then drag it to the desired location on the desired panel.

**TIP** To add an application icon to the Home screen from the **Applications** screen, touch and hold the application you want to add.

**TIP** To remove an application icon from the Home screen, touch and hold the icon you want to remove, then drag it to .

**NOTE** You cannot delete preloaded applications. Only their icons can be deleted from the screen.



## Returning to recently used applications

- 1 Touch and hold the **Home Key** . The screen displays a pop-up with icons of applications you used recently.
- 2 Touch an icon to open the application or touch the **Back Key**  to return to the current application.

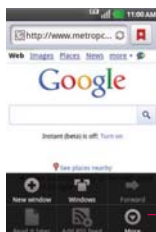
## Working with Menus

There are two kinds of Android menus: Options menus and Context menus.

### Options menus

Options menus contain tools that apply to the activities of the current screen or application, not to any specific item on the screen. To open the available options menu, touch the **Menu Key** . Not all applications have Options menus; if you touch the **Menu Key**  on a screen that has no Options menu, nothing will happen.

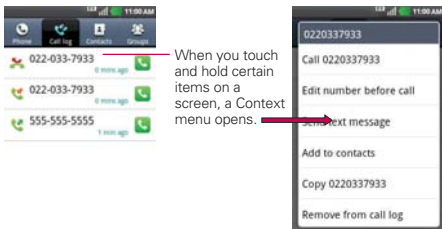
Some applications have more Options menu items than can fit in the options menu. To view the additional menu items, touch **More**.



Touch **More** to view additional menu items.

### Context menus

Context menus contain options that apply to a specific item on the screen. To open a Context menu, touch and hold an item on the screen. Not all items have Context menus. If you touch and hold an item that has no Context menu, nothing will happen.



## Managing Notifications

Notification icons report the arrival of new messages, calendar events, alarms, as well as ongoing events, such as when you are in a call.

When you receive a notification, the notification icon will be displayed in the Status Bar. You can open the Notifications panel to view a list of all recent notifications. Depending on your settings, you may hear a notification sound and/or the phone may vibrate.

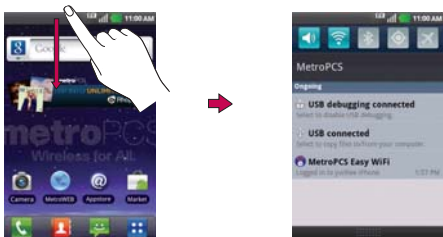
### To open the Notifications panel

- ▶ Touch and drag the Status Bar to the bottom of the screen.

OR

- ▶ From the Home screen, touch the **Menu Key**  > **Notifications**.

The Notifications panel displays your wireless provider and a list of your current notifications organized into ongoing and event-based notifications.



### To respond to a notification


1. Open the Notifications panel. Your current notifications are listed in the panel, each with a brief description.
2. Touch a notification to view it.

The Notifications panel will close and the application that corresponds to your response will open. For example, new voicemail notifications dial your voicemail box, and Gmail notifications open the Gmail application so you can read your new messages.

### To clear all notifications

1. Open the Notifications panel.
2. Touch the **Clear** button.  
All event-based notifications will be cleared; ongoing notifications will remain in the list.

### To close the Notifications panel

Touch and drag the tab at the bottom of the Notifications panel to the top of the screen or just touch the **Back Key** .

The panel will also close when you touch a notification.


## Searching Your Phone and the Web


You can search for information on your phone and on the web by using the Google search application.

Some applications, such as Gmail, Contacts, and MetroWEB have the ability to search contents within those specific applications.

You can conduct the search by typing in the search terms or saying what you're looking for. Typing can be useful because the search application can provide suggestions so you don't necessarily have to type out your full request.

### Phone and Web search using text entry

1. From the Home screen, touch the **Search Key** .


When you touch the **Search Key**  on the Home screen or in other applications that support this, the Quick Search Box will open automatically.



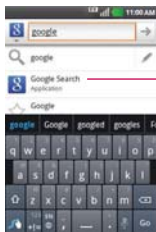
**Voice Search**  
Touch to search by voice.

Provides one-touch shortcut to matching search items and past searches.





In some applications, such as Gmail, Contacts, and MetroWEB the application's own search box opens when you touch the **Search Key** . This is indicated by the application's icon on the left side of the search box.

2. Enter the text you're searching for in the Quick Search Box.



As you type, search results from your phone, previous search terms, and web search suggestions appear. Touch an item to activate that search result.



You can use the Search preferences to configure some aspects of web search (for example, whether it makes suggestions below the Quick Search Box as you type), and what phone features you want to include in searches. To access settings, open the Search application and touch the **Menu Key**  > **Search settings**.

3. Touch  to search for the entered terms.

## Locking the Screen

You can lock your screen so that only you can unlock it to make calls, access your data, buy applications, and so on.

### Setting an Unlock Pattern, PIN, or Password for the First Time

1. From the Home screen, touch the **Applications Key**  > **Settings**  > **Location & security**.
2. Touch **Set up screen lock** (under the **Screen unlock** section of the settings).
3. Touch **Pattern, PIN, or Password**.



**Pattern:** The first time you set an unlock pattern, you will see a tutorial with instructions on how to create it. Read the tutorial and touch **Next** (twice). Draw your pattern (connect at least 4 dots) and touch **Continue**. Then redraw your pattern and touch **Confirm**.

**PIN:** Enter a PIN (at least 4 digits) and touch **Continue**. Reenter your PIN and touch **OK** to confirm it.



**Password:** Enter a password (at least 4 characters) and touch **Continue**. Reenter your password and touch **OK** to confirm it.

From then on, any time you wish to turn the phone on or unlock the screen, you will need to draw your unlock pattern or enter your PIN or password to unlock the screen.

### Changing Your Unlock Pattern

1. From the Home screen, touch the **Applications Key**  > **Settings**  > **Location & security**.
2. Touch **Change screen lock** (under the **Screen unlock** section).
3. Draw your current unlock pattern.
4. Touch **Pattern** to change it (or touch **None** to remove it).
5. You're prompted to draw and redraw your new pattern.



### Using a PIN or Password to Lock the Screen


1. From the Home screen, touch the **Applications Key**  > **Settings**  > **Location & security**.
2. Touch **Set up screen lock** (under the **Screen unlock** section).
3. Touch **PIN** to lock the screen with a number sequence or touch **Password** for an alphanumeric lock sequence.
4. You're prompted to enter and reenter the lock sequence.

From then on, you will need to enter the sequence and touch **OK** to unlock the screen.

- NOTES**
- You have 5 opportunities to enter your unlock pattern, PIN or password. If you used all the 5 opportunities, you can try again after 30 seconds.
  - When you can't recall your unlock pattern:
    - If you've created a Google Account on the phone, touch **Forgot pattern?**. Then you are required to sign in with your Google Account to unlock your phone.
    - If you haven't created a Google Account on the phone, you need to perform a factory reset (Caution: If you perform a factory reset, all user applications and user data will be deleted. Please remember to back up any important data before performing a factory reset).
1. Turn the power off.
  2. Press and hold the following keys at the same time for about 1 to 2 seconds until the touch key backlights turn on:




Power/Lock Key  + the down Volume Key .

3. As soon as the backlight on the touch keys is turned on, release the keys. Then touch and hold the Home Key  until the LG logo is displayed.

## Customizing the Home Screen

You can personalize your Home screen by adding application icons, shortcuts, widgets, and other items to any Home screen pane. You can also change the wallpaper.

### To add an item to the Home screen

1. Go to the Home screen pane where you want to add the item.
2. Touch the Menu Key  and touch **Add**. Or just touch and hold an empty spot on the Home screen pane.

**NOTE** If there is no available space on a particular Home screen pane, **Add** will not be available; you must delete or remove an item before you can add another item. In this case, you have the option of switching to another Home screen pane.

3. In the menu that opens, touch the type of item to add.

You can add the following types of items to the Home screen:

**Widgets** Add any of a variety of widget applications to your Home screen, including a clock, a music player, a picture frame, Google search bar, a power manager, a calendar of upcoming appointments, Weather widget, and more. Note that more widgets can also be found on Android Market™.



**Shortcuts** Add shortcuts to applications, a bookmarked web page, a favorite contact, a destination in Maps, a Gmail label, a music playlist, and more. The shortcuts available depend on the applications you have installed.

**Folders** Add a folder where you can organize other Home screen shortcuts and icons, or folders that contain all your contacts, contacts with phone numbers, or starred contacts. Your folders' contents are kept up-to-date automatically.


### To move an item on the Home screen

1. Touch and hold the item.
2. Drag the item to a new location on the screen.  
Pause at the left or right edge of the screen to drag the item onto the next available Home screen pane.
3. When the item is where you want it, lift your finger.

### To remove an item from the Home screen

1. Touch and hold the item (note that the Quick Keys change to an icon of a trash can ).
2. Drag the item to the trash can icon .
3. When the icon turns red, lift your finger.

### To change the Home screen wallpaper

1. From the Home screen, touch the **Menu Key**  > **Wallpaper**.  
You can also touch and hold an empty spot on the Home screen and then touch **Wallpapers** in the menu that opens.
2. Touch **Gallery**, **Live wallpapers**, or any wallpaper that is displayed.
  - ▶ Touch **Gallery** to use a picture you've taken with your camera as a wallpaper. You can crop the picture before setting it as your wallpaper.
  - ▶ Touch **Live Wallpapers** to open a list of animated wallpapers installed on your phone.  
Live wallpapers can change according to the time of day, respond to touching the screen, tell the time, or offer other information.
  - ▶ Touch any available wallpaper and it will automatically be applied to your phone.
3. Touch **Set wallpaper** or **Save** (if necessary).

### To rename a folder

1. Touch the folder icon to open it.
2. Touch and hold the folder window's title bar.
3. Enter the new folder name.
4. Touch **OK**.

## Connecting Quickly With Your Contacts

As you build up your list of contacts on your phone, you can use Quick Contact for Android to quickly chat, email, text message, place a call, or to locate your contacts. Quick Contact for Android is a special set of icons that you can use to quickly and easily connect to a contact.

- ▶ Open your Contacts list and touch the contact's picture. A bubble will open with the available options, displayed as icons. This is the Quick Contact bubble. Depending on the contact information saved, the available actions will be displayed above the name.



- ▶ Touch a Quick Contact icon to communicate with the contact. Depending on the icon you've touched, a different application will open.



If you add a shortcut for a contact to your Home screen, you will be able to use it to open Quick Contact for that contact.


































## Viewing the Status Bar

The Status Bar uses different icons to display phone information such as signal strength, new messages, battery life and active Bluetooth and data connections.

Below is a table explaining the meaning of icons you're likely to see in the Status Bar.











ICON	DESCRIPTION	ICON	DESCRIPTION
	Microphone muted during a call		Missed call notification
	In call		In call using Bluetooth device
	Speaker On		Google Music Playing
	An alarm is set		Calendar event notification
	New email received		Sending Email failed
	New message received		Sending message failed
	High priority message received		New voice mail received
	Incoming Google talk message		Music currently playing
	Silent mode		Vibrate mode
	Wired headset connected		EV-DO network connected
	Using EV-DO data network		Download through the EV-DO data network
	Upload through the EV-DO data network		Download through 1X data network
	Using 1X data network		Upload through 1X data network

	1X network connected		Downloading
	Uploading		Acquiring GPS Access
	GPS On		No signal
	No service		Weak network signal
	Strong network signal		Airplane mode
	Roaming		Open Wi-Fi connection detected
	No Wi-Fi signal		USB debugging connected
	USB connected		Bluetooth On
	Bluetooth device connected		Battery empty
	More notifications available		System secure
	Internal memory space full		System Alert
	SD card inserted		Preparing the SD card for use
	No SD card inserted		Battery Full
	Google sync started		Error during Google sync
	Battery Charging		Battery status unknown(error)
	Location On		Receiving location data from GPS
	Strong Wi-Fi Signal		

## On-screen keyboard

You can enter text using the on-screen keyboard. The on-screen keyboard appears automatically on the screen when you need to enter text. To manually display the keyboard, simply touch a text field where you want to enter text.

### Using the keypad & entering text

-  : Tap once to capitalize the next letter you type. Double tap for all caps.
-  : Tap to switch to the numeric and symbol keyboard.
-  : Touch to switch the input language or touch and hold to view a list of the available input languages.
-  : Touch to insert an emoticon when writing a message.
-  : Touch to enter a space.
-  : Tap to create a new line in the message field.
-  : Touch to delete the previous character.
-  : Touch to open Swype Help.

## Entering accented letters

While entering text, your device's keyboard allows you to enter special accented characters (e.g. "á").

For example, to input "á", touch and hold the "a" key until the zoom-in key grows bigger and displays different characters relating to the original letter.


Then select the special character you want.

The first time you open the Google application on your phone, you are required to sign in with your existing Google account. If you do not have a Google account, you are asked to create one.

## Setup Wizard

The first time you turn on your phone, the Setup Wizard guides you through signing in to your Google Account. If you don't have one, don't worry, the Setup Wizard will help you create one.


**NOTE** This phone supports several applications and services. It is recommended that you purchase a data plan that meets your needs. Contact your service provider for details.

1. Press and hold the **Power/Lock Key**  on the top edge of your phone to turn it on.
2. On the Welcome screen, touch **Continue** to set up your device.
3. Follow the Setup Wizard to configure your phone settings, including creating or logging in to your Google Account.



**NOTE** If you have an existing Google Account, your contacts from that account are synced to your phone.

## Creating your Google account

1. From the Home screen, touch the **Applications Key**  to open the Applications screen.
2. Touch **Gmail > Next > Create** to start the Gmail setup wizard.
3. Enter your name and username for your Google account.
4. Tap **Next**. Your phone is now communicating with Google servers and checking username availability.
5. Enter and re-enter your password. Follow the instructions and enter the required and optional information about your account. Wait while the server creates your account.

## Signing in to your Google account

1. Enter your email address and password, then touch **Sign in**. Wait while the system signs you in.
2. After signing in, you can use Gmail and take advantage of Google services on your phone.
3. Once you have set up your Google account on your phone, your phone automatically synchronizes with your Google account on the Web (This depends on your synchronization settings).





After signing in, you can use other Google services on your phone.

### IMPORTANT!

- Some applications, such as Calendar, only work with the first Google account you add. If you plan to use more than one Google account on your phone, be sure to sign in to the one you want to use with applications such as Calendar first. When you sign in, your contacts, Gmail messages, Calendar events and other information from these applications and services on the Web are synchronized with your phone. If you do not sign in to a Google account during setup, you are asked to sign in or create a Google account the first time you start an application that requires one, such as Gmail or Android Market™.
- If you have an enterprise account through your company or other organization, your IT department may have special instructions on how to sign in to that account.




## Making a call

1. From the Home screen, touch the **Phone Key**  to open the keypad.
2. Enter the number using the keypad. To delete a digit, touch the **Delete Key** .
3. Touch the **Call Key**  to make a call.
4. To end a call, touch the **End icon** .

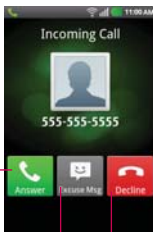
**TIP** To enter “+” to make international calls, touch and hold .

## Calling your contacts

1. From the Home screen, touch **Contacts**  to open your contacts list.
2. Scroll through the contact list or enter the first letter(s) of the contact you want to call by touching the **Search** field.
3. In the list, touch the contact you want to call.

## Answering and rejecting a call

### Unlocked screen

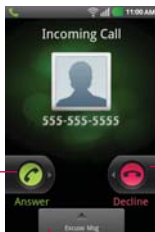


Touch to answer the call.

Touch to send the caller an Excuse Message.

Touch to decline the call and send the caller to voicemail.

### Locked screen



Drag right to answer the call.






Drag upwards to send the caller an Excuse Message.

Drag left to decline the call and send the caller to voicemail.

## Adjusting call volume


To adjust the in-call volume during a call, use the **Volume Keys** on the left side of the phone.

## Making a second call

1. During your initial call, touch the **Menu Key**  > **Add call** .
2. Dial the number or search your contacts.
3. Touch the **Call Key**  to connect the call.
4. Both calls are displayed on the call screen. Your initial call is locked and put on hold.
5. Touch **Merge calls**  to create a conference call.
6. To end active calls, touch the **End Key** .

**NOTE** You are charged for each call you make.

## Viewing your call logs


From the Home screen, touch **Contacts**  and choose the **Call log** tab. View a complete list of all dialed, received and missed voice calls.

**TIP** Touch any call log entry to view the date, time and duration of the call.

**TIP** Touch the **Menu Key**  > **Delete all** to delete all the recorded items.

## Call settings

You can configure phone call settings and other special features offered by your carrier.

1. From the Home screen, touch the **Applications Key**  to open the Applications screen.
2. Touch **Settings**.
3. Touch **Call settings** and choose the options that you want to adjust.

## Contacts

The **Contacts** application allows you to store names, phone numbers and other information in your phone's memory.



### Using Your Contacts

Use the **Contacts** application to add, view, and communicate with your friends and acquaintances.

#### To open your Contacts application

- ▶ From the Home screen, touch the **Applications Key**  > **Contacts** .

#### OR

Touch the **Home Key**  and then the **Contacts Key**  in the Quick Keys bar.

All of your contacts are displayed alphabetically in a list. If you have a new phone and haven't added any contacts yet, the **Contacts** application will display hints on how to start adding contacts to your phone.

#### To open a list of your favorite contacts

- ▶ Open your **Contacts** application and touch the **Groups** tab at the top of the screen. Then touch **Favorites**.





**Favorites** lists the contacts you've added to the list, followed by a list of your Contact Groups.


### To view details about a contact

1. Open your **Contacts** application.
2. Touch the contact whose details you want to view.



Touch an icon to call, message, or open other applications.

- ▶ The **Dial icon**  places a call to the number.
- ▶ The **Message icon**  starts a message.
- ▶ The **Email icon**  starts an email.
- ▶ The **Chat icon**  starts a chat.


Touch the **Menu Key**  for the following menu options: **Edit contact**, **Share**, **Options**, **Add to homescreen**, **Delete contact**, and **More** (**Export** and **Set speed dial**).



### Adding Contacts

You can add contacts on your phone and synchronize them with the contacts in your Google™ Account, Microsoft Exchange account, or other accounts that support syncing contacts.

The **Contacts** application tries to join new addresses with existing contacts, to create a single entry. You can also manage that process manually.

### To add a new contact

1. Open the **Contacts** application.
2. Touch the the **Menu Key**  > **New contact**.

3. If you have more than one account with contacts, touch **Contact type** at the top of the screen and choose the account to which you want to add the contact.
4. Enter the contact's name.
5. Touch a category of contact information, such as phone number and email address, to enter that kind of information about your contact.
6. Touch a category's plus button  to add more than one entry for that category. For example, in the phone number category, add a work number and a home number. Touch the label button to the left of the entry item information to open a drop-down menu of preset labels. For example, **Mobile** and **Work** for a phone number.
7. Touch the **Picture Frame** icon  to select a picture to display next to the name in your list of contacts and in other applications.
8. When you're finished, touch **Save**.


## Importing, Exporting, and Sharing Contacts

If you have contacts stored in vCard format on a microSD card you can import them into your Contacts application on your phone. You can also export contacts in vCard format onto a microSD card.

Export to back them up to a computer or other device or so you can send a contact via email.

### To import contacts from your microSD card


You can copy contacts, in vCard format, onto your microSD card then import them into your phone.

1. Insert the memory card (that contains the vCard files) into your phone.
2. Open the **Contacts** application.
3. Touch the **Menu Key**  > **More** > **Import/Export**.
4. Touch **Import from storage**.
5. If you have more than one account on your phone, touch the account into which you want to import the contacts.

6. Touch the files you want to import from the microSD card. Then touch **Import**.


### To export contacts to your microSD card

You can export all of the contacts on your phone to your microSD card, as vCard files. You can then copy this file to a computer or another device that is compatible with this format, such as an address book application.

1. Open the **Contacts** application.
2. Touch the **Menu Key**  > **More** > **Import/Export**.
3. Touch **Export to storage** > **SD card**.
4. Touch the contacts you wish to export to the SD card. To export all contacts, touch **Select All** in the top left corner of the screen. Then touch **Export** and **OK**.

### To share a contact

You can share a contact with someone by sending it to them as a vCard file.

1. Open the **Contacts** application.
2. Touch the contact you want to share to view the contact details.
3. Touch the **Menu Key**  > **Share**.
4. Choose the method for sending.
5. Enter the necessary information and share it.

## Adding a Contact to Your Favorites

The **Favorites** section contains a short list of the contacts you communicate with most often.

### To add a contact to your favorites list

1. Open the **Contacts** application.
2. Touch a contact to view its details.
3. Touch the star to the right of the contact's name.  
When the contact is added to your favorites list, the star will be gold-colored.


### To remove a contact from your favorites list

1. Open the **Contacts** application and touch the **Groups** tab.
2. Touch **Favorites** and then touch a contact entry to view its details.
3. Touch the gold star to the right of the contact's name.  
The grey-colored star will indicate that the contact was removed from your Favorites list.

## Searching for a Contact

It's easy to search for a contact by name.

### To search for a contact

1. Open the **Contacts** application.
2. Touch the **Search** field at the top of the screen or touch the **Search Key** .
3. Start entering the name of the contact you're searching for. As you type, contacts with matching names will appear below the search box.
4. Touch a matching contact in the list to view its details.  
You can also search by nickname, email, organization and number.

## Editing Contact Details

You can change or add details saved in your contact entries. You can also set specific ringtones to specific contacts or determine whether calls from specific contacts are diverted to your voicemail.

Some contact entries contain information from multiple sources: information that you added manually, information that Contacts joined from multiple accounts to consolidate duplicates, etc.

If you find duplicate entries in Contacts, you can join them into a single entry.

Changes made to information from one source do not automatically change the information on the other sources. For example, if you have information about a contact from a Google Account and an Exchange account and both are configured to sync contacts, changes to the contact from the Google Account are synced to that account on the web, but the information from the Exchange account will remain unchanged.

### To edit contact details:

1. Open the **Contacts** application.
2. Touch and hold the contact whose details you want to edit. In the menu that opens, touch **Edit contact**.
3. Edit the contact information.
4. Touch **Save** to save the changes.


### To change a contact's default phone number

The default phone number is used when you initiate a call or send a text message using the context menu (by touching and holding a contact).


1. Open the **Contacts** application.
2. Touch the name of a contact in the list to view its details.
3. Touch and hold the phone number you want to use as the contact's default phone number.
4. Touch **Make default number** in the menu that opens.  
The default phone number is indicated by a checkmark.



### To set a ringtone for a contact

1. Open the **Contacts** application.
2. Touch the name of a contact in the list to view its details.
3. Touch the **Menu Key**  > **Options**.
4. Touch **Ringtone** and then touch a ringtone to select it.
5. Touch **OK** to save the ringtone to the contact.

### To delete a contact

1. Open your **Contacts** list or **Favorites** list.
2. Touch the name of a contact in the list to view its details.
3. Touch the **Menu Key**  > **Delete contact**.
  - ▶ If you delete a contact from Google Contacts (or another account with editable contacts), the contact is also deleted from Contacts on the web the next time you sync your phone.
  - ▶ You can't delete contacts from a read-only account, such as Facebook. Instead, a dialog box informs you that the contact will be hidden.
  - ▶ If the contact contains information from both editable accounts (such as Contacts) and from a read-only account (such as Facebook), a dialog box informs you that the information from the read-only account will be hidden, not deleted.
4. Touch **OK** to confirm that you want to delete the contact.

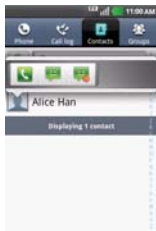
### Communicating with Your Contacts

From the **Contacts** or **Groups** tab, you can quickly call or send a text (SMS) or multimedia message (MMS) to a contact's default phone number. You can also open a list of all the ways you can communicate with that contact.

This section describes ways to initiate communication when viewing your list of contacts. The **Contacts** application shares your contacts with many other applications, such as Gmail™ and Messaging.

## To connect by using Quick Contact for Android™

1. Touch a contact's picture to open Quick Contact for Android.








2. Touch the icon corresponding to the type of communication you want to start.

The communication icons displayed depend on the types of information you saved in the contact information.

## To communicate with a contact

1. Open the **Contacts** application.
2. Touch the contact with whom you want to communicate.
3. In the contact's details screen, touch the way to start communicating with the contact.

- ▶ The **Dial icon**  places a call to the number.
- ▶ The **Message icon**  starts a message.
- ▶ The **Email icon**  starts an email.
- ▶ The **Chat icon**  starts a chat.

**NOTE** Anytime you see the **Dial icon**  next to a number, such as in your Favorites or Call log, just touch it to call that number.

### To call a contact's default number

1. Open the **Contacts** application.
2. Touch and hold the contact you wish to call.
3. Touch **Call contact** in the menu that opens.

### To send a text or multimedia message to a contact's default number


1. Open the **Contacts** application.
2. Touch and hold the contact you wish to message.
3. Touch **Text contact** in the menu that opens.

## Selecting Which Contacts are Displayed

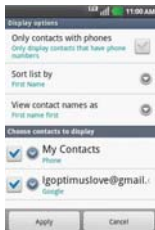
You can hide contacts that don't have phone numbers. You can also configure which groups of contacts you want to display in the Contacts list.

### To set whether contacts without phone numbers are displayed


If you use your list of contacts only to call people, you can hide any contacts that don't have phone numbers.

1. Open the **Contacts** application.
2. Touch the **Menu Key**  > **More** > **Display options**.
3. Touch **Only contacts with phones** to select or deselect this option. When selected, a checkmark will appear.
4. Touch **Apply** to save the settings.

- NOTES**
- You can sort the Contact list by First name or Last name.
  - You can also view contact names as First name first or Last name first.





### To change which groups are displayed

1. Open the **Contacts** application.
2. Touch the **Menu Key**  > **More** > **Display options**.
3. Touch an account to open its list of available groups.
4. Touch each group whose contacts you want to view in your **Contacts** application. Contact types with a checkmark will appear in your contacts list. This action affects only which contacts are displayed. Your sync settings will not be affected.
5. Touch **Apply** to save your settings.

### Joining Contacts

When you add an account or add contacts in other ways, such as by exchanging emails, the **Contacts** application attempts to avoid duplication by joining contact information automatically. You can also join contacts manually.

#### To join contacts



1. Open the **Contacts** application.
2. Touch the contact entry to which you want to add information. The contact name for this entry will remain unchanged after you join with another contact.
3. Touch the **Menu Key**  > **Edit contact**.
4. Touch the **Menu Key**  > **Join**.
5. Touch the contact whose information you want to join with the first contact. The information from the two contacts will be merged and displayed under the name from the first contact.
6. Touch **Save** to confirm you want to join the entries. The contact information will be displayed in one contact entry.

## Separating Contact Information

Each contact entry on your phone may contain 'joined' information from a variety of sources.

If contact information from different sources was joined in error, you can separate the information back into individual contact entries on your phone.


### To separate contact information

1. Open the **Contacts** application.
2. Touch the contact entry whose information you want to separate.
3. Touch the **Menu Key**  > **Edit contact**.
4. Touch the **Menu Key**  > **Separate**.
5. Touch **OK** to confirm you want to separate the entries. The contact information will be separated into individual contact entries in the Contacts list.

## Voice Dialer



You can use the Voice Dialer application to place a phone call by speaking the name of a contact or a phone number.

### To place a call by speaking



1. From the Home screen, touch **Voice Dialer** . If you have a Bluetooth headset that supports "voice-recognition" or "voice dialing," you may be able to open Voice Dialer by pressing your headset's main button or in some other way, and dial by voice using your headset. For details, see the documentation that came with your headset.
2. Say "**Call**" followed by the name of the contact or say "**Dial**" followed by a phone number.

### Call a Contact by Voice Dialing

You can call numbers directly by saying the contact's name or number.

1. From the Home screen, touch the **Applications Key**  > **Voice Dialer** .
2. Say "Call" or "Dial" and then a name or a phone number. Or you can say "Redial" to redial the last number dialed.
3. If a list of results is displayed, touch the one you want to use.


### Open an Application using Voice Dialer

1. From the Home screen, touch the **Applications Key**  > **Voice Dialer** .
2. Say "Open" and then an application name.
3. If a list of results is displayed, touch the one you want to use. The device opens the corresponding application.

## Messaging


Your LG OPTIMUS<sup>™</sup> combines text messages (SMS) and multimedia messages (MMS) into one intuitive, easy-to-use menu.

### Sending a message

1. From the Home screen, touch **Messaging**  > **New message**.
2. Enter a contact name or number into the **To** field. As you enter the contact name, matching contacts appear. Touch a suggested recipient. You can add multiple contacts.

**NOTE** You are charged for one text message for every person you send the message to.

3. Touch the text field to start entering your message.

**TIP** Touch the **Menu Key**  to open the Options menu. Choose from **Call**, **Add subject**, **Discard**, **Attach**, **Insert Smiley**, and **All messages**.

**TIP** You can touch **Attach**  to attach a file to your message.

4. Touch **Send** to send your message.
5. Responses appear on the screen. As you view and send additional messages, a message thread is created.



**WARNING!** The 160-character limit may vary from country to country depending on the language and how the SMS is coded.

**WARNING!** If an image, video or audio file is added to an SMS message, it is automatically converted into an MMS message and you are charged accordingly.



**NOTE** When you get an SMS message during a call, you receive a notification.

### Changing your message settings

Your Messaging settings are predefined so that you can send messages immediately. You can change the settings based on your preferences.

Touch **Messaging**  in the Home screen and touch the **Menu Key**  > **Settings**.

## Setting up your email

From the Home screen, touch the **Applications Key**  and select **Email** . Enter the email address and the password to set up your email.

## Microsoft Exchange email account

The following settings may need to be entered when setting up your Microsoft Exchange accounts:

**Email address** – Enter the account email address.

**Username** – Enter the account username.

**Password** – Enter the account password.

**Domain** – Enter the account domain name (optional).

**Server address** – Enter the server address.

**Use SSL** – Choose whether to use SSL for Microsoft Exchange.

**Sync contacts** – Choose whether to synchronize the Microsoft Exchange account contacts.

**Sync calendar** – Choose whether to synchronize the Microsoft Exchange account calendar.



## Other (POP3 & IMAP) email account

**Email address** – Enter the account email address.

**Password** – Enter the account password.

**Incoming server** – Enter the incoming email server address.

**Incoming Port** – Each account's default port number is displayed.

**Incoming Security type** – Allows you to select the security type.



**Outgoing mail server** – Enter the outgoing email server address.

**Outgoing Port** – Each account's default port number is displayed.

**Outgoing Security type** – Allows you to select the security type.

### Accounts screen




The **Accounts** screen lists your combined inbox and each of your email accounts.


Touch the **Application Key**  and select **Email**. The **Account** screen appears. If the inbox of an account appears, touch the **Menu Key**  > **Accounts**.

You can touch an account to view its **Inbox**. The account from which you send email by default is indicated with a check mark.

## Composing and sending email

To compose and send a message:

1. In the **Email** application, touch the **Menu Key**  > **Compose**.
2. Enter an address in the **To** field for the message's recipient. As you enter text, matching addresses from your list of contacts are suggested. Separate multiple addresses with commas.
3. Touch the **Menu Key**  > **Add Cc/Bcc** to copy other contacts/email addresses.
4. Enter the text for the message.
5. Touch the **Menu Key**  > **Add attachment** to attach a file to your message.
6. Touch **Send** to send the message.

If you're not ready to send the message, touch **Save as draft** to save it to the **Drafts** folder. Touch the draft message in the **Drafts** folder to resume working on it. Your message is also saved as a draft if you touch the **Back Key**  before sending it. Touch **Discard** to abandon and delete a message, including a saved draft. If you aren't connected to a network, for example if you're working in airplane mode, the messages you send are stored in your **Outbox** folder until you connect to a network. If it contains any pending messages, the **Outbox** is displayed on the **Accounts** screen.

Please note that messages sent using an Exchange account are not located on the phone; they are located on the Exchange server itself.

If you want to see your sent messages in the Sent folder, you often need to open the **Sent** folder and select **Refresh** from the Options menu.



**TIP** When a new email arrives in the inbox, you will receive a notification by sound or vibration (if sound is on). Tap the email notification to view the message.

## Working with account folders

Each account has **Inbox**, **Outbox**, **Sent** and **Drafts** folders. Depending on the features supported by your account's service provider, you may have additional folders.

## Adding and editing email accounts

### To add an email account

1. From the Home screen, touch the **Applications Key** , then select **Email** .
2. Enter the email address and the password to set up your email.

### To change account settings

1. Open the **Accounts** screen.
2. Touch and hold the account you want to change. In the menu that opens, touch **Account settings**.

### To delete an email account

1. Open the **Accounts** screen.
2. Touch and hold the account you want to delete.
3. Touch **Remove account** in the menu that opens, then touch **OK** to confirm.

## Gmail

### Opening Gmail and Your Inbox

When you open the **Gmail** application, the most recent conversations are displayed in your Inbox.

#### To open the Gmail application

From the Home screen, touch the **Applications Key**  > **Gmail** .

All of your conversations are displayed in your Inbox unless you delete, archive, or filter them.

The current Google Account is displayed at the top right of the Inbox. If you have more than one account, you can switch accounts to view the messages in each Inbox.


Conversations with new messages are displayed with bold subject lines. To read a message in a conversation, touch its subject line text.

> indicates that this message was sent directly to you.

>> indicates that you were CC'd on this message.

**No indicator** indicates that this message was sent to a group that includes you.

## To open your Inbox when Gmail is running

If you are viewing a message or another label, touch the **Back Key**  until you return to your Inbox.

**OR**

- ▶ When reading a message, touch the **Menu Key**  > Go to inbox

**OR**

- ▶ When viewing a list of labeled conversations, touch the **Menu Key**  > **More** > **Go to inbox**.

## To switch accounts

Gmail displays conversations and messages from one Google Account at a time. If you have more than one account, you can open the Accounts screen to view how many unread messages you have in each account and to switch accounts.

1. From your Gmail Inbox, touch the **Menu Key**  > **Accounts**.



2. Touch the account that contains the email you want to read.

## Reading Your Messages

When viewing a list of conversations in your Inbox or in any list of labeled conversations, you can open a conversation to read its messages.

### To read a message

- ▶ Touch a conversation that contains the message you want to read.


A conversation opens to the first new (unread) message, or to the first starred message, if you've previously starred a message in the conversation.



The Google Talk online status will appear next to the name of the sender of each message if the sender has a Google Account. Touch the contact's picture to open Quick Contact.



When reading messages in a conversation, you can use the buttons at the bottom of the screen to archive the entire conversation or delete it. After you delete a conversation, you can touch **Undo** in the green bar that appears at the top of the screen to undo the last action and restore the message to its previous location.

You can also touch the arrow buttons to read the next, oldest, unread message in a conversation in your Inbox (or the conversation list you're working in).

Touch  on the message header to access options for replying or forwarding the message.

## To reread a message


When you open a conversation, messages that you've already read are minimized into a tab that indicates the number of hidden messages.

1. From the Home screen, touch the **Applications Key**  > **Gmail** . Then touch the conversation you want to view and the tab indicating minimized messages.



2. Touch the contact name to open that message.










When reading a message you can touch the **Menu Key**  > **Mark unread** to return a read message to the unread state. For example, to remind yourself to read it again later.


## Composing and Sending a Message

You can compose and send a message to people or groups with Gmail addresses or other email addresses.

### To compose and send a message

1. From the Home screen, touch the **Applications Key**  > **Gmail**  > **Menu Key**  > **Compose**.
2. Enter a recipient's address in the **To** field.  
As you enter text, matching addresses are offered from your Contacts list. You can touch a suggested address or continue entering text to enter a new one.
3. Touch the **Menu Key**  > **Add Cc/Bcc** to copy recipients, if necessary.
4. Enter a subject for the message in the **Subject** field.
5. Continue into the next field to enter your email message.
6. Touch the **Menu Key**  > **Attach** to add an attachment to the email.
7. Touch **Send**  to send your message.

If you're not ready to send the message, touch  to save the message as a Draft. You can read your drafts by opening messages with the Draft label.

To erase the message, touch the **Menu Key**  > **Discard** (including any saved drafts).


If you aren't connected to a network – for example, if you're working in Airplane mode – the messages that you send are stored on your phone with the Outbox label until you connect to a network again.



## Replying to or Forwarding a Message

You can continue an email conversation by replying to a message or by forwarding it.

### To reply to or forward a message

1. Touch  on the message header to access options for replying or forwarding the message.
2. Touch **Reply**, **Reply all**, or **Forward**.

Replying to or forwarding messages without changing the subject adds your reply to the current conversation.

Changing the subject starts a new conversation.

The message will open in a new screen where you can add or remove addresses, edit the subject, and add or remove text or attachments.

You can add one or more people to an ongoing conversation by replying to all and then adding the new person's address(es) to the reply.

Note that the conversation text and previous messages are also included in your reply (or forward).

3. Touch **Send**  to send your message.


## Working with Conversations in Batches

You can archive, label, delete, or perform other actions on a batch of conversations at once, in your Inbox or in another label.

1. From the Inbox, or a folder with another label, touch the checkbox for all the messages you want to include in the batch.

When you checkmark a conversation, the **Archive**, **Delete**, and **Labels** buttons appear at the bottom of the screen.



2. Touch **Archive**, **Delete**, or **Labels** or touch the Menu Key  > **Add star**, **Mark unread**, **Mark important**, **Report spam**, **Mute**, **More**.


Your action affects the selected batch of messages.

If you accidentally delete a batch of conversations, you can touch **Undo** in the green bar (that appears briefly after the action) at the top of the screen to undo the action and restore the message(s) to the previous location. You can also use Undo after muting, archiving, and reporting spam.

## Labeling a Conversation

As mentioned previously, conversations are organized by labels. Gmail has several default labels, but you can also add your own through Gmail on the web.

### To label a conversation

1. When reading a conversation's messages, touch the **Menu Key**  > **Change labels**.
2. In the dialog box that opens, check the labels you want to assign to the conversation and touch **OK**.

### To label a batch of conversations at once


You can assign or change the labels of one or more conversations at once.

1. From your Inbox, or a folder with another label, checkmark the conversations to select a batch.
2. Touch **Labels** at the bottom of the screen.
3. In the dialog box that opens, check the labels you want to assign to the conversation.
4. Touch **OK**.


### Starring a Message

You can star an important message or conversation to make it easy to locate again.

#### To star a message

- ▶ When reading a message, touch the star  in its header.

**OR**


- ▶ When viewing a list of conversations, touch its star  to star the newest message in the conversation.

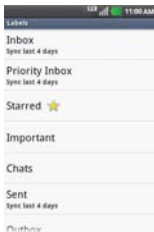
#### To unstar a message

- ▶ Touch the message's star again.

## Viewing Conversations by Label

You can view a list of the conversations that have the same label, including conversations with starred messages.

1. When viewing your Inbox, or a folder with another label, touch the **Menu Key**  > Go to labels.




2. Touch a label to view a list of conversations with that label.

**NOTE** The conversation list will resemble your Inbox. Most of the options available while using your Inbox will also be available while viewing these lists of labeled messages.

## Reporting Spam

The Gmail service is quite effective at preventing spam (junk mail) from reaching your Inbox. But when spam does make it through, you can help improve the Gmail service by reporting the conversation as spam.

### To report a conversation as spam

- ▶ When reading a message, touch the **Menu Key**  > **More** > **Report spam**.

**OR**




- ▶ From the Inbox, touch the checkmark box to select the messages you want to report as spam > **Menu Key**  > **Report spam**.

When you report a conversation as spam, the conversation (and all its messages) are removed from your Inbox. You can view the messages you've marked as spam by viewing messages with the Spam label.

## Synchronizing Your Messages

The Gmail service has the resources to store all the messages you've ever sent or received; your phone does not. To save space, Gmail downloads only some of your messages to your phone. Use the **Settings** application to control how and when applications synchronize their data.

### To select which conversations to synchronize

1. From the Home screen, touch the **Applications Key**  > **Gmail** .
2. Touch the **Menu Key**  > **More** > **Settings** > Select the desired account > **Sync inboxes and labels**.

The Synchronization screen opens, displaying a list of your Gmail labels. Below each label is its current synchronization setting:




**Sync all**, **Sync last 4 days**, or **Sync none** (If Sync none is selected, the labeled conversation is not synchronized).

3. Touch a conversation label whose synchronization settings you want to change.

A dialog box for that conversation label opens, with three options:




- **Sync none** Don't download any conversations that have only this label.
- **Sync last 4 days** Download the previous 4 days (or number of days you set) of conversations.
- **Sync all** Download all conversations with this label.

### To set how many days of conversations to synchronize

1. From the Home screen, touch the **Applications Key**  > **Gmail** .
2. Touch the **Menu Key**  > **More** > **Settings** > Select the desired account > **Sync inboxes and labels**.
3. Touch **Amount of mail to sync**.
4. Enter the number of days and touch **OK**.

## Appending a Signature to Your Messages

You can add information to every email you send, such as your name, contact information, or even “Sent from my Android™ phone”.




1. From the Home screen, touch the **Applications Key**  > **Gmail** .
2. Touch the **Menu Key**  > **More** > **Settings** > Select the desired account > **Signature**.





3. Enter a signature or other information.
4. Touch **OK**.

## Changing Gmail Settings

You can change a number of settings for Gmail. Each Google Account has its own settings, so your changes affect only the current account. Notification volumes and some synchronization settings can also be changed in the **Settings** application.

- ▶ From the Home screen, touch the **Applications Key**  > **Gmail**  > **Menu Key**  > **More** > **Settings** and select the desired account.

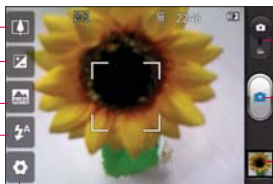
## Camera

To open the Camera application, from the Home screen touch the Applications Key  > Camera  or touch the Camera icon on the Home screen.

### Getting to know the viewfinder

**Brightness** - Defines and controls of the amount of sunlight entering the lens. Slide the brightness indicator along the bar toward “-” for a lower brightness image or toward “+” for a higher brightness image.

**Zoom** - Allows you to zoom in or out. The Volume Keys will also adjust the zoom.



**Mode Switch** - Slide this icon down to switch to video mode.

**Capture** - Takes a picture.

**Gallery** - Touch to view the last photo you captured. This enables you to access your Gallery and view saved photos from within camera mode.

**Settings** - Touch this icon to open the Settings menu. See 'Using the advanced settings'.

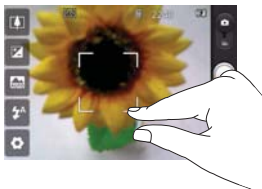
**Flash** - Allows you to set the flash to take pictures in darker areas.

**Scene mode** - Allows you to set the scene mode.

**TIP** To close all shortcut options to give a clearer viewfinder screen, touch the center of the viewfinder once. To display the options, touch the screen again.

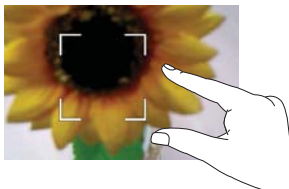
## Zoom Shortcuts

### Pinch In





Pinch in to zoom out the image.

### Pinch Out



Pinch out to zoom in the image.

## Taking a quick photo

1. Open the **Camera** application.
2. Hold the phone horizontally and point the lens towards the subject you want to photograph.
3. Touch and hold the **Capture Button** . In the center of the viewfinder screen, a focus box starts blinking as it tries to get the subject in focus.
4. The focus box turns green when the subject is in focus.
5. Lift your finger off the **Capture Button**  to take the picture.

## Once you've taken the photo


Your captured photo appears on the screen.

**Share** : Touch to share your photo using **Bluetooth, Email, Gmail, Google+, Messaging, Picasa**, or any other application that supports this function.

**NOTE** Additional charges may apply when MMS messages are downloaded while roaming.

**TIP** If you have a social networking account and set it up on your phone, you can share your photo with the social networking community.



 : Touch to use the image as a **Contact icon** or **wallpaper**.



 : Touch to edit the name of the selected picture.

 : Touch to delete the image.

 : Touch to take another photo immediately. Your current photo is saved.

 : Touch to view a gallery of your saved photos.

## Using the advanced settings

In the viewfinder, touch **Settings**  to open all advanced options. Change the Camera settings by scrolling through the list. After selecting the option, touch the **Back Key** .

**Image size** – Touch to set the size (in pixels) of the picture you take.

**ISO** – The ISO rating determines the sensitivity of the camera's light sensor. The higher the ISO, the more sensitive the camera is. This is useful in darker conditions when you cannot use the flash. Select from ISO values of **Auto**, **400**, **200** and **100**.

**White balance** – White balance ensures that the white areas in your picture are realistic. To enable your camera to adjust the white balance correctly, you may need to determine the light conditions. Choose from **Auto**, **Incandescent**, **Sunny**, **Fluorescent** and **Cloudy**.

**Color effect** – Allows you to select a color tone for your new photo.

**Timer** – The self-timer allows you to set a delay after the Capture Button is pressed. Select **Off**, **3 sec**, **5 sec** or **10 sec**. This is ideal if you want to be in the photo.

**Image quality** – Choose from **Super fine**, **Fine** and **Normal**. The finer the quality, the sharper the photo. However, the file size increases as a result, which means you can store fewer photos in the memory.

**Auto review** – Allows you to choose if you wish to display the picture you just took.


**Shutter sound** – Allows you to select one of four shutter sounds.

**Tag location** – Activate to use your phone's location-based services. Take pictures wherever you are and tag them with the location. If you upload tagged pictures to a blog that supports geo-tagging, you can see the pictures displayed on a map.

**NOTE** This function is only available when GPS is active.

**Storage** – Allows you to save the image in **Internal memory** or **SD card**.

 : Restore all Camera default settings.

 : Touch whenever you want to know how this function operates. This provides you with a quick guide.


**TIP** When you exit the Camera, some settings return to their defaults, such as white balance, color effect, timer and scene mode. Check these before you take your next photo.


**TIP** The Settings menu is superimposed over the viewfinder so, when you change elements of the image color or quality, you see a preview of the image change behind the Settings menu.

## Viewing your saved photos

Access your saved photos while in **Camera** mode. Just touch the picture thumbnail at the bottom right corner of the screen. Touch the screen to display the following options for the image: **Slideshow** and **Menu**.

**TIP** Swipe left or right to view other photos or videos.

 : Touch to see a slideshow.

 : Touch to share the contents or delete a photo. Touch **More** for more options.

**Details** – Allows you to see the details of the current image.



**Set as** – Allows you to set the image as a **Contact icon** or **Wallpaper**.

**Crop** – Allows you to crop your photo. Move your finger across the screen to select the area.

**Rotate Left** – Allows you to rotate the image to the left.

**Rotate Right** – Allows you to rotate the image to the right.

## Camcorder

To open the Camcorder application, from the Home screen touch the **Applications Key**  > **Camera**  or touch the Camera icon on the Home screen and slide the Mode Switch down to Camcorder mode.

### Getting to know the viewfinder

**Brightness** - Defines and controls of the amount of sunlight entering the lens. Slide the brightness indicator along the bar toward “-” for a lower brightness video or toward “+” for a higher brightness Video.

**Zoom** - Allows you to zoom in or out. The Volume Keys will also adjust the zoom. You can also pinch in and out to zoom. Set the zoom before starting to record a video. You cannot change the zoom setting during recording.



**Mode Switch** - Slide this icon up to switch to Camera mode.

**Record** - Starts recording a video.




**Gallery** - Touch to view the last video you recorded. This enables you to access your Gallery and view your saved videos from within Video mode.


**Settings** - Touch this icon to open the settings menu. See 'Using the advanced settings'.

**Duration** - Allows you to set the duration mode for videos.

**Flash Mode** - Allows you to set the flash mode.


### Recording a quick video


1. From the Home screen, touch the **Applications Key**  > **Camera** .
2. Slide the Mode Switch to Camcorder mode.
3. The video camera viewfinder appears on the screen.
4. Holding the phone horizontally, point the lens towards the subject you want to capture in your video.
5. Touch the **Record Button**  once to start recording.

- A timer showing the length of the video is displayed at the bottom of the screen.
- Touch the **Stop Button**  to stop recording. The video will be automatically saved.

## After recording a video

A still image representing your video will appear on the screen.


**Play**  : Touch to play the video.

**Share**  : Touch to share your video using **Bluetooth, Gmail, Messaging, YouTube**, or any other application that supports this function.

**NOTE** Additional charges may apply when MMS messages are downloaded while roaming.



**Rename**  : Touch to edit the name of the selected video.

 : Touch to record another video right away. Your current video is saved.

 : Touch to delete the video you just made. Confirm by touching **Yes**. The viewfinder reappears.

 : Touch to view a gallery of your saved videos.

## Using the advanced settings

Using the viewfinder, touch **Settings**  to open all the advanced options. Adjust the video camera setting by scrolling through the list. After selecting the option, touch the **Back Key** .

**Video size** – Touch to set the size (in pixels) of the video you record.

**White balance** – White balance ensures that the white areas in your video are realistic. To enable your camera to adjust the white balance correctly, you may need to determine the light conditions. Choose from **Auto, Incandescent, Sunny, Fluorescent** and **Cloudy**.


**Color effect** – Allows you to select a color tone to use for your new video.


**Video quality** – Choose from **Super fine, Fine** and **Normal**.

**Audio recording** – Allows you to choose to record video with or without audio.


**Auto review** – Allows you to choose if you wish to play the video you just took immediately after recording it.

**Storage** – Allows you to save the video in **Internal memory** or **SD card**.

 – Restore all Video camera default settings.

 – Touch if you want to know how this function operates. This provides you with a quick guide.

## Watching your saved videos

1. In the viewfinder, touch **Gallery**  or the video thumbnail at the bottom right corner of the screen.
2. Your Gallery appears on the screen.
3. Touch a video once to bring it to the front of the Gallery. It starts playing automatically.

## Adjusting the volume when viewing a video

To adjust the volume of a video while it is playing, use the **Volume Keys** on the left-hand side of the phone.

## Gallery


### Opening Gallery and Viewing Your Albums

Open the **Gallery** application to view albums of your pictures and videos.

#### To open Gallery and view your albums

- ▶ From the Home screen, touch the **Applications Key**  > **Gallery** .


OR

- ▶ Open Gallery from the **Camera** application by touching **Gallery**  or the thumbnail at the bottom right corner of the screen.

The **Gallery** application presents the pictures and videos saved in your phone, including those you've taken with the **Camera** application and those you downloaded from the web or other locations.

If you have a Picasa™ account synchronized with one of your phone's Google™ Accounts, you'll also see your Picasa web albums in Gallery.





- ▶ Touch an album to open it and view its contents. The pictures and videos in the album are displayed in chronological order.
- ▶ Touch a picture or video in an album to view it.
- ▶ Return to the main Gallery screen at any time by touching  at the top left corner of the screen.

## Working with Albums

Albums are groups of images and videos in folders on your microSD card and internal memory or in Picasa web albums.


### To open an album and view its contents

- ▶ From the Home screen, touch the **Applications Key**  > **Gallery**  and touch the album whose contents you want to view.



- ▶ Use the slider bar at the bottom of the screen to scroll horizontally through your pictures and videos.
- ▶ The date of the images in view is displayed, so you can scroll by date.
- ▶ You can also scroll through an album by swiping the screen left or right.

### To change how the contents of an album are displayed

You can view the images and videos in your albums in a chronological grid or in stacks, sorted by the date and the location where they were taken. You switch album views with the Album View switch  at the top right of the screen.

- ▶ Drag the Album View switch  to the right to view the album contents in stacks.



- ▶ Drag the Album View switch  to the left to view the album contents in a chronological grid again.



### Pinch peek




When browsing your images in stacks, you can use a spread gesture to open up the contents of an image stack. Photos contained within that stack are then smoothly cycled between your two fingertips.





## To Work with Batches of Pictures or Videos

In addition to working with whole albums and with individual pictures, you can select one or more pictures or videos in an album to work on them in batches. For example, to send a few pictures from an album to a friend.




1. From the Home screen, touch the **Applications Key**  > **Gallery** .
2. Open the album that contains the pictures and videos you want to work with as a batch.
3. Touch the **Menu Key** .
4. Touch the pictures you want to work with to checkmark them. Touch a checkmarked item to remove the checkmark.

You can checkmark all items or remove all checkmarks, by touching **Select All** or **Deselect All** at the top of the screen.




5. Use the control buttons at the bottom of the screen to perform actions on the checkmarked items. The control buttons available depend on the mix of items you've selected.

## To share an album

You can share the entire contents of one or more albums or individual images or videos from an album.




1. From the Home screen, touch the **Applications Key**  > **Gallery** .
2. Touch the **Menu Key** .
3. Checkmark or uncheckmark the album(s) you want to share.
4. Touch **Share** at the bottom left corner of the screen and touch the application you would like to use to share the selected albums.
5. Enter the necessary information and share it.

### To get details about an album

1. From the Home screen, touch the **Applications Key**  > **Gallery** .
2. Touch the **Menu Key** .
3. Checkmark or uncheckmark the album(s) you want to see details about.
4. Touch **More** at the bottom right corner of the screen, then touch **Details** from the pop-up menu.

### To delete an album


You can delete an album and its contents from your microSD card and internal memory.

1. From the Home screen, touch the **Applications Key**  > **Gallery** .
2. Touch the **Menu Key** .
3. Checkmark or uncheckmark the album(s) you want to delete.
4. Touch **Delete** at the bottom center of the screen. Touch **Confirm Delete** in the pop-up menu.

### Working with Pictures

Use Gallery to view pictures that you've taken with the **Camera** application, downloaded, copied onto your microSD card and internal memory, or that are stored in Picasa web albums.


### To view and browse pictures

1. From the Home screen, touch the **Applications Key**  > **Gallery**  and then touch a picture.



- ▶ Turn the phone to view the picture in vertical (portrait) or horizontal (landscape) orientation. The picture is displayed (but not saved) in the new orientation.
- ▶ Touch the picture to view navigation, zoom, and other control buttons.
- ▶ To zoom, touch a zoom icon (+ or -), use the pinch-to-zoom method, or just double-tap the screen.
- ▶ When the picture is zoomed in, drag the picture to view parts that are not in view.
- ▶ When the picture is zoomed to fit in the window, drag left or right to view the next or previous picture in the album.

### To watch a slideshow of your pictures

- ▶ When viewing a picture, touch the screen to view the control buttons then touch **Slideshow**.
- ▶ Touch the screen, or touch the **Back Key** , to end the slideshow.

### To rotate a picture

1. Touch a picture you want to rotate then touch **Menu**.
2. Touch **More**. A menu opens with tools for working with the picture.



3. Touch **Rotate Left** or **Rotate Right**.  
The picture is saved with the new orientation.

### To use a picture as a contact icon or as Home screen wallpaper

1. Touch the picture you want to use, then touch **Menu**.
2. Touch **More**.
3. Touch **Set as**.
4. Touch **Contact icon** to set the picture to identify a Contact entry or touch **Wallpaper** to set the picture as your wallpaper.
5. If you choose to set as a contact icon, the **Contacts** application will open. Touch the contact that you want to identify with the picture. If you decide to set the picture as your wallpaper, crop it, if necessary then touch **Save**.

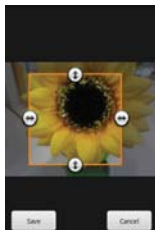
### To crop a picture

You can crop and save pictures that are stored on your microSD card and internal memory.

1. Touch the picture you want to crop, then touch **Menu**.
2. Touch **More**.
3. Touch **Crop**.

The cropping box appears on top of the picture.

4. Use the cropping box to select the portion of the picture to keep; the rest of the photo will be discarded.
  - ▶ Drag from the inside of the cropping box to move it.
  - ▶ Drag an edge of the cropping box to resize it to any proportion.
  - ▶ Drag a corner of the cropping box to resize it with fixed proportions.



5. Touch **Save** to save a copy of the picture as you cropped it. The original uncropped version remains in your phone's memory.

### To get details about a picture

1. Touch the picture you want, then touch **Menu**.
2. Touch **More**.
3. Touch **Details**.

### To share a picture

You can share a picture by sending it to friends or posting it in a Picasa web album.

1. Touch the picture you want to share, then touch **Menu**.
2. Touch **Share**.
3. In the menu that opens, touch the application to use to share the selected picture.
4. Enter the necessary information and share it.

### To delete a picture

You can delete a picture from your microSD card and internal memory.

1. Touch the picture you want to delete, then touch **Menu**.
2. Touch **Delete**, then touch **Confirm Delete** in the dialog box that opens.

## Working with Videos

Use the **Gallery** application to play videos that you've taken with the **Camcorder** application and to share them with friends.

### To play videos

- ▶ Open a Gallery album and touch a video.




The video plays in the orientation you recorded it in.






- ▶ Touch the screen while the video is playing to view the playback controls.

### To share a video


You can share your videos in a variety of ways, including sending it by email or multimedia message (MMS), or via a Bluetooth device. You even have the option to share your videos publicly by uploading it to the YouTube™ website.

1. From the Home screen, touch the **Applications Key**  > **Gallery** , then touch an album.
2. While viewing an album, touch the **Menu Key** .
3. Touch to checkmark the videos you wish to share.
4. Touch **Share**.
5. In the menu that opens, touch the application you would like to use to share the selected videos.
6. Enter the necessary information and share it.






### To delete a video

1. From the Home screen, touch the **Applications Key**  > **Gallery** , then select an album.
2. While viewing an album, touch the **Menu Key** .
3. Touch to checkmark the videos you want to delete.
4. Touch **Delete**.
5. Touch **Confirm Delete**.

## Music

Your LG OPTIMUS<sup>m+</sup> has a built-in music player that lets you play all your favorite tracks. To access the music player, on the Home screen touch the Applications Key  and select **Music player**.

### Playing a song

1. From the Home screen, touch the Applications Key  and select **Music player**.
2. Touch **Songs**.
3. Select the song you want to play.
4. Touch  to pause the song.
5. Touch  to skip to the next song.
6. Touch  to go back to the beginning of the song. Touch  twice to return to the previous song.

To change the volume while listening to music, press the up and down **Volume Keys** on the left-hand side of the phone.


Touch and hold any song in the list. It The following options are available: **Play, Add to playlist, Use as ringtone, Delete, Details, Share and Search.**

**NOTE** Music file copyrights may be protected by international treaties and national copyright laws. Therefore, it may be necessary to obtain permission or a license to reproduce or copy music. In some countries, national laws prohibit private copying of copyrighted material. Before downloading or copying the file, check the national laws of the relevant country concerning the use of such material.



## Transferring files using USB mass storage devices

### To transfer files using USB devices

1. Connect the LG OPTIMUS<sup>m+</sup> to a PC using a USB cable.
2. If you haven't installed LG Android Platform Driver on your PC, you need to change the settings manually. From the Home screen, touch the **Applications Key**  **Settings > Connectivity > Default connection mode > Mass storage only**.
3. You can view the mass storage contents on your PC and transfer the files.

**NOTE** If you installed the LG Android Platform Driver, your device will automatically be connected to the PC.





### How to save music/video files on your phone

1. Connect your phone to the PC using the USB cable. From the Home screen, touch and drag the Status Bar down. Select **USB connected > Mass storage**. Open the desired folder to view files in your PC. If you didn't install LG Android Platform Driver on your PC, you must set it up manually. For more information, refer to 'Transferring files using USB mass storage devices'.
2. Save music or video files from the PC to the phone's removable storage.
  - You can copy or move files from your PC to your phone's removable storage using a card reader.
  - If there is a video file with a subtitle file (\*.srt & \*.smi file with the same name as the video file), place it in the same folder to display subtitles automatically when playing the video file.
  - When downloading music or video files, copyrights must be secured. Note that corrupted files or files with incorrect extensions may damage your phone.



## Sending data from your phone using Bluetooth


### Sending data using Bluetooth

You can use Bluetooth to send data by opening a corresponding application, not from the Bluetooth menu as on most other mobile phones.



- \* **Sending pictures:** Open the **Gallery** application, then open the picture and touch **Menu > Share > Bluetooth**. Check whether Bluetooth is turned on, then touch **Scan for devices**. Choose the device you want to send data to from the list.
- \* **Exporting contacts:** Open the **Contacts** application. Touch the Contact you want to export. Touch the **Menu Key  > Share > Bluetooth**. Check whether Bluetooth is turned on, then touch **Scan for devices**. Choose the device you want to send data to from the list.
- \* **Sending multi-selected contacts:** Open the **Contacts** application. To select more than one contact, touch the **Menu Key  > Share > Select all > Share > Bluetooth**. Check whether Bluetooth is turned on, then touch **Scan for devices**. Choose the device you want to send data to from the list.
- \* **Connecting to FTP (only FTP server is supported on this handset):** From the Home screen, touch the **Applications Key  > Settings > Wireless & networks > Bluetooth settings**. Touch the **check box** so you can search for your phone on other devices. Find the FTP service and connect to the FTP server.
  - If you want to search for this phone from other devices, go to **from the Home screen, touch the Applications Key  > Wireless & networks > Bluetooth settings**. Select the **check box**. Your device will be able to be detected by other devices for 120 seconds.

## Setting your alarm


1. From the Home screen, touch the **Applications Key**  and select **Clock**.
2. If you want to add a new alarm, touch  and select **Add alarm**.
3. Set the time, then touch **Set** to turn on the alarm. After you set the time, the **LG OPTIMUS<sup>™</sup>** lets you know how much time is left before the alarm will sound.
4. Touch the **Repeat**, **Ringtone** or **Vibrate** fields to set them as desired, then add a **Label** to name the alarm.
5. Touch **Done** to save the alarm.

**NOTE** To change the alarm settings on the alarm list screen, touch the **Menu Key**  and select **Settings**. You can adjust the below options: **Alarm in silent mode**, **Alarm volume**, **Snooze duration** and **Side button behavior**.

## Using your calculator



1. From the Home screen, touch the **Applications Key**  and select **Calculator**.
2. Touch the number keys to enter numbers.
3. For simple calculations, touch the function you want (+, -, x or ÷) followed by =.
4. For more complex calculations, touch the **Menu Key** , touch **Advanced panel**, then choose sin, cos, tan, log, etc.

## Adding an event to your calendar

1. From the Home screen, touch the **Applications Key**  and select **Calendar**.
2. To check the event, touch the date. Touch and hold if you want to add a new event, then touch **New event**.
3. Touch the **Event name** field and enter the event name. Check the date and enter the time you want your event to start and finish.
4. Touch the **Event location** field and enter the location.

5. If you want to add a note to your event, touch the **Event description** field and enter the details.
6. If you want to repeat the alarm, set **Repetition**, and set **Reminders**, if necessary.
7. Touch **Done** to save the event in the calendar. A colored square in the calendar marks all days that have saved events. An alarm sounds at the event start time to help you stay organized.

## Changing your calendar view

1. From the Home screen, touch the **Applications Key**  and select **Calendar**. Then touch the **Menu Key** .
2. Select from **Day**, **Week**, **Month**, **Agenda**, or **Today**.

## Polaris Viewer

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

### Managing files

Polaris Viewer provides mobile users with convenient file management features, including copying, cutting and pasting, and deleting files and folders right on the device.





### 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 Polaris Viewer, the objects and layout remain the same as in their original documents.

## Voice Recorder

Use the Voice Recorder to record voice memos or other audio files.


### Recording a sound or voice

1. From the Home screen, touch the **Applications Key**  and select **Voice Recorder**.
2. Touch  to begin recording.
3. Touch  to end the recording.
4. Touch  to listen to the recording.

**NOTE** Touch  to access your recordings. You can listen to the saved recording.

**NOTICE** The available recording time may differ from the real time.

### Sending the voice recording

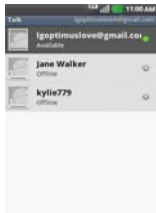
1. Once you have finished recording, you can send the audio clip by touching the **Menu Key**  > **Share**.
2. Choose from **Bluetooth**, **Email**, **Gmail**, **Messaging**, or any other application that supports this feature. When you select **Email**, **Gmail**, and **Messaging**, the voice recording is added to the message, then you write and send the message normally.

## Talk

### To open Google Talk and sign in

- ▶ From the Home screen, touch the **Applications Key**  > **Talk** .

When you first open Google Talk, your Friends list will be displayed. This list includes all of the friends you've added by using Google Talk on the web or on the phone.




### To return to your Friends list

You can return to your Friends list while chatting with a friend so that you can invite another friend to chat, add a friend, etc.

- ▶ Touch the **Menu Key**  > **Friends list**.

### To sign out of Google Talk




You can sign out of Google Talk. For example, if you want to limit Google Talk conversations to your computer. Also, signing out can extend your battery life.

- ▶ From your Friends list, touch the **Menu Key**  > **Sign out**.

You will no longer receive chat notifications or see others' Google Talk status in other applications, such as Gmail™.


## Chatting with Friends

### To chat with a friend

1. From the Home screen, touch the **Applications Key**  > **Talk** .  
If you're already chatting with someone, you can touch the **Menu Key**  > **Friends list** to return to the Friends list.
2. Touch the friend you want to chat with.
3. Enter your message, then touch **Send**.



The messages that you exchange are displayed on the screen and include information about the chat, such as whether it's on-the-record, the time a message was sent (if there's no response after a short while), etc.

To enter an emoticon (smiley), just touch the **Menu Key**  > **More** > **Insert smiley** to open a list of emoticons.

Your chat session will remain open until you end it.

Friends you're chatting with are displayed at the top of your Friends list, with the most recent message displayed in a black-on-white balloon.

### To accept an invitation to chat

When a friend sends you a Google Talk message, you will receive a notification. The friend's name in the Friends list turns white and displays the message.

- ▶ Touch the friend in your Friends list.

**OR**

- ▶ Open the Notifications panel then touch the chat notification.  
A chat window will open where you can exchange messages with your friend.

### To switch between active chats

If you have more than one chat going, you can switch between chats.

- ▶ From the Friends list, touch the name of the person you want to chat with.

**OR**


- ▶ From a chat screen, touch the **Menu Key**  > **Switch chats** and then the friend you want to chat with.

**OR**

- ▶ While chatting with a friend, swipe left or right across the screen.

### To invite a friend to join a group chat

While you're chatting, you can invite additional friends to join a group chat.


1. On a chat screen, touch the **Menu Key**  > **Add to chat**.
2. Touch the name of the friend to invite.

The friend you invited and the current participants will receive an invitation to a group chat. Each one who accepts the invitation will join the group chat. In a group chat, everyone can see everyone else's messages. Group chats appear at the top of your Friends list, with a group chat icon.

### To chat on or off-the-record

Your Google Talk messages are stored, so you can review them later and even search for them, in the Chats folder in Gmail. If you'd rather not store the messages in a chat, you can chat off-the-record.

- ▶ While chatting, touch the **Menu Key**  > **Chat off record**.

To return to on-the-record chatting, touch the **Menu Key**  > **Chat on record**.

### To end a chat

When you've finished your conversation, it's easy to end a chat session.


- ▶ From your Friends list, touch and hold the friend you want to stop chatting with. In the menu that opens, touch **End chat**.

**OR**

- ▶ From a chat screen, touch the **Menu Key**  > **End chat**.



## Application Manager

You can manage your applications with App Manager. To access App Manager, from the Home screen touch the **Applications Key**  > **App Manager**.




- Touch the **Running apps** tab to view the applications that are currently being used. The applications with high consumption of resource will have descriptions in red. Touch **Stop** to terminate the applications.
- Touch the **Installed** tab to view all of the installed applications.
- Touch the **Storage** tab to view the capacity of System memory and Internal memory.
- You can place the App Manager widget on the Home screen and easily check the number of currently running applications.

## MetroWEB Browser

The MetroWEB feature allows you to access the internet from your device. Access and selections within this feature are dependent upon your service provider. For specific information on MetroWEB access through your phone, contact your service provider.

- NOTES**
- You may incur additional charges for accessing the web and downloading media. For details, contact your service provider.
  - Available icons may vary depending on your region.

### Browse web pages

1. From the Home screen, touch the **Applications Key**  > **MetroWEB** . To access a specific web page, touch the URL input field, enter the web address (URL) of the web page, and touch .
2. Navigate web pages using the following options:

#### URL Input Field




Touch here to enter a web address for the web page you wish to access.




















#### Bookmarks

Touch here to view and edit your bookmarks.




While browsing the web page, use the following options:

- ▶ To zoom in or out, double-tap the screen. You can also use the pinch-to-zoom method. Place your two fingers on the screen and slowly pinch or spread them apart.
- ▶ To open a new window, touch the **Menu Key**  > **New window**.
- ▶ To view the list of bookmarks, touch **Bookmarks**  next to the URL field. You can also add or edit a bookmark from this menu.
- ▶ To bookmark the current web page, touch **Bookmarks**  > **Add**. Enter the name for the bookmark and touch **OK**.

- ▶ When a web page finishes loading, the RSS Indicator will appear if an RSS feed is available. Touch the **Menu Key**  > **Add RSS Feed**  and select the feed you want to save.
  - ▶ To view the currently active windows, touch the **Menu Key**  > **Windows** . You can open multiple pages and switch back and forth between them.
  - ▶ To reload the current web page, touch the **Refresh Icon** . The Refresh option appears after the web page finishes loading.
  - ▶ To stop loading a web page, touch the **Stop Icon** . The Stop option appears while a web page is loading.
  - ▶ To go to previous page, touch the **Back Key** .
  - ▶ To go to a next page in history, touch the **Menu Key**  > **Forward** .
  - ▶ To search for text on the web page, touch the **Menu Key**  > **More** > **Find on page**.
  - ▶ To select text on the web page, touch the **Menu Key**  > **More** > **Select text**. Highlight the text you want with your finger and tap it. The highlighted text is copied to the clipboard and you can paste it anywhere that allows text to be entered.
  - ▶ To view the web page details, touch the **Menu Key**  > **More**  > **Page info**.
- NOTE** When you are in a secure page, you can see the certificate of the current page by touching the **View certificate** button on Page info.
- ▶ To set the current page as the home page, touch the **Menu Key**  > **More** > **Set home page**.
  - ▶ To send the web address (URL) of the web page to others, touch the **Menu Key**  > **More** > **Share page**.
  - ▶ To view the download history, touch the **Menu Key**  > **More** > **Downloads**.
  - ▶ To customize the MetroWEB settings, touch the **Menu Key**  > **Settings**.

## Bookmark your favorite web pages

If you know the web address of the web page, you can manually add a bookmark. To add a bookmark:


1. From the Home screen, touch the **Applications Key**  > **MetroWEB** .
2. Touch **Bookmarks**  next to the URL field.
3. Touch **Add**.
4. Enter a page title and a web address (URL).
5. Touch **OK**.

From the bookmark list, touch and hold a bookmark and use the following options:

- ▶ To open the web page in the current window, touch **Open**.
- ▶ To open the web page in a new window, touch **Open in new window**.
- ▶ To edit the bookmark details, touch **Edit bookmark**.
- ▶ To add the bookmark shortcut to one of the Home screen panes, touch **Add shortcut to home**.
- ▶ To send the web address (URL) of the web page to others, touch **Share link**.
- ▶ To copy the web address (URL) of the web page, touch **Copy link URL**.
- ▶ To delete the bookmark, touch **Delete bookmark**.
- ▶ To use the web page as your MetroWEB homepage, touch **Set as homepage**.

## Changing the MetroWEB settings

You can configure a number of MetroWEB settings, such as managing your privacy settings.

- ▶ To open the MetroWEB settings screen, open MetroWEB and touch the **Menu Key**  > **More** > **Settings**.

## Page content settings

**Default zoom** Opens a dialog box where you can increase or decrease the magnification level that MetroWEB uses when first opening a web page.

**Open pages in overview** Checkmark to open web pages zoomed out, in an overview. Uncheckmark to open web pages at 100% size, displaying the top-left corner of the page.

**Text encoding** Opens a dialog box where you can change the character encoding standard that MetroWEB uses when displaying text on a web page.

**Block pop-up windows** Checkmark to prevent websites from opening windows unless you request it.

**Load images** Uncheckmark to omit images when MetroWEB displays a web page. This speeds up web page loading, which can be useful if you have a slow connection.

**Enable power save mode** Reduces the display power consumption by inverting web page colors.

**Auto-fit pages** Checkmark to have MetroWEB optimize the presentation of text and other elements of web pages to fit your phone's screen. Checkmarking this option also causes MetroWEB to reflow a column of text to fit the screen if you double-tap the screen directly after zooming with your fingers. Uncheckmark to view pages as designed for a computer screen so that double-tapping simply switches between zoomed-in and default view.

**Landscape-only display** Checkmark to display pages in landscape (horizontal) orientation on your screen, regardless of how you are holding the phone.

**Enable javascript** Uncheckmark to prevent JavaScript from running on web pages. Many web pages function correctly only if they can run JavaScript features on your phone.

**Enable plug-ins** Opens a dialog box to select when to enable plug-ins.

**Open in background** Checkmark to open new windows in the background when you touch and hold a link, then touch **Open in new window**. This

is useful when you are working with windows that take a long time to download and display. Uncheckmark if you prefer new windows to open in place of the current window.

**Set home page** Opens a dialog box where you can enter the URL of a page that you want to access whenever you open a new window. If you prefer to open new windows more quickly, by not opening any page by default, leave the dialog box blank.

**Storage** Allows you to choose the storage location.

### Privacy settings

**Clear cache** Allows you to clear locally cached content and databases.

**Clear history** Allows you to clear the MetroWEB history.

**Accept cookies** Checkmark to allow websites to save and read cookie data.

**Clear all cookie data** Allows you to clear all MetroWEB cookie data.

**Remember form data** Checkmark to allow MetroWEB to remember data entered into forms for later use.

**Clear form data** Allows you to clear all saved form data.

**Enable location** Checkmark to allow sites to request access to your location.

**Clear location access** Allows you to clear location access for all websites.

### Security settings

**Remember passwords** Checkmark to allow MetroWEB to save user names and passwords for websites.

**Clear passwords** Allows you to clear all saved passwords.

**Show security warnings** Checkmark to show a warning if there is a problem with a site's security.

### Advanced settings

**Set search engine** Allows you to select a search engine.

**Website settings** Allows you to manage advanced settings for individual websites.

**Reset to default** Allows you to restore the MetroWEB settings to default.

## Checking the weather

The **Weather** application provides weather forecasts. You can place a Weather widget on your Home screen for a summary of your local weather. Access the **Weather** application for more detailed weather information.


### To get details about the weather

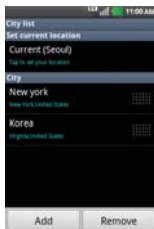
After adding the Weather widget on the Home screen, touch it to open the **Weather** application to view summarized and detailed weather information.



### To update or add city

Touch the Weather widget on the Home screen to open the Weather application to view summarized and detailed weather information.


- ▶ Touch the **City list** icon .
- ▶ Touch **Current** to update your current location.
- ▶ Touch  at the bottom of the screen to add a city.
- ▶ Touch a city in the list to display the weather information for that city.
- ▶ Swipe right or left to scroll through the weather information for each of the cities in your list.



## Changing Weather Settings

You can configure a number of settings for the **Weather** application.

The location and related settings also affect the display of the Weather widget application.

- ▶ To open the Weather settings screen, touch the **Menu Key**  > **Settings**.

### List settings

**City list** You can add, edit, or remove a city from your list.

### General settings

**Refresh interval** Allows you to set how often to update the weather. More frequent updates trade the convenience of current information for increased data use and decreased battery life between charges.

**Temperature unit** Allows you to use Fahrenheit or Celsius.





## Market

### Opening Android Market and Finding Applications

Open Android Market to browse and search for free and paid applications.

#### To open the Android Market application


- ▶ From the Home screen, touch the **Applications Key**  > **Market**  or touch the Market icon on the Home screen.

When you open **Android Market** application for the first time, you must read and accept the terms of service to continue.



#### To get help with Android Market

Android Market Help web pages are available from all Android Market screens.

- ▶ Touch the **Menu Key**  > **Help**.

The **MetroWEB** application opens to the Android Market Help page with links to many help topics.

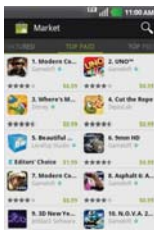
## To browse for applications

You can browse applications by category and sort them in different ways.

1. On the Android Market home page, touch a category along the left side of the screen.
2. Scroll left and right to view subcategories.



3. Touch an application to open its details screen, or further sort the subcategory by touching TOP PAID, TOP FREE, TOP GROSSING, TOP NEW PAID, TOP NEW FREE, TRENDING.






4. The descriptions and the prices of the application will be displayed.

### To open a screen with details about an application

- ▶ At any time while browsing Android Market, touch an application to open its details screen.


The Application details screens include a description, ratings, comments, and related information about the application. From this screen, you can download, install, uninstall, and rate the application, and more.

### To search for applications

1. Touch  at the top right of the screen or touch the **Search Key** .
2. Enter all or part of an application's name or description, or the developer's name you want to search for then touch  on the keypad.
3. Touch a search result to open that application's details screen.

### To return to the Android Market home screen

You can return directly to the Android Market home screen from most other screens in Android Market.

- ▶ Touch the **Market** icon  at the top left corner of the screen.

## Downloading and Installing Applications

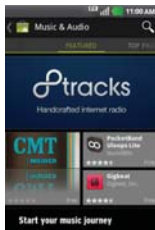
When you find an application you want, you can install it on your phone.

### To download and install an application

**NOTE** Before you can download a paid application, you must set up a billing arrangement.

1. Find an application you want and open its details screen.

In the application's details screen, you can read more about the application, including its cost, overall rating, and comments by users. Scroll down to the Developer Info section to view more applications by this developer, visit the developer's website, or send the developer an email message.



2. Touch **Download** or **Install** (for free applications) or the **Price** button (for paid applications).

If the application requires access to your data or control of any functions on your phone, Market tells you what the application can access.

**WARNING!**

Read this screen carefully. Be especially cautious with applications that have access to many functions or to a significant amount of your data. Once you accept on this screen, you are responsible for the results of using this item on your phone.

3. If you agree to the application's access requirements, touch **Accept & download** (for free applications) or **Accept & buy** (for paid applications).
  - ▶ If you selected a paid application, you're redirected to the Google™ Checkout screen to pay for the application before it's downloaded to your phone.

- ▶ If you selected a free application (or after touching **Accept & buy** in Google Checkout), you receive a series of notifications as the application is downloaded and then installed on your phone.

When the application is installed, you can touch the notification to open the application or open it by touching its icon in the Apps screen.

You have 15 minutes to try out an application and, if you decide you don't want it, to uninstall it for a refund.

If you have another Android™ phone, you can download a paid application to that phone using the same Android Market account, at no additional charge.

### To create a Google Checkout account

You must have a Google Checkout account associated with your Google Account to purchase items from Android Market.

- ▶ On your computer, go to <http://checkout.google.com> to establish a Google Checkout account.

**OR**




- ▶ The first time you use your phone to buy an item from Android Market, you're prompted to enter your billing information to set up a Google Checkout account.

#### **WARNING!**

When you've used Google Checkout once to purchase an application from Android Market, the phone remembers your password, so you don't need to enter it the next time. For this reason, you should secure your phone to prevent others from using it without your permission.

## Maps




### To search for a location

1. From the Home screen, touch the **Applications Key**  > **Maps** .
2. Touch the search box at the top of the screen.
3. In the search box, enter the place you're looking for. You can enter an address, a city, or a type of business or establishment. For example, "theater in New York".
4. Touch the **Search Key** .






Red markers indicate search matches on the map.


You can touch a marker to open a balloon that contains a label. Touch the balloon to open a screen with more information about the location, as well as options for obtaining directions.

### To get directions

1. From the Home screen, touch the **Applications Key**  > **Maps** .
2. Touch the **Menu Key**  > **Directions**.
3. Enter a starting point in the first text box and your destination in the second text box. You can also select an address from your Favorites, contacts or history.

To reverse directions, touch the **Menu Key**  > **Reverse Start & End**.

4. Touch the **Car** icon  for driving directions, the **Bus** icon  for public transportation directions, the **Bicycling** icon  for bicycling directions, or **Walking** icon  for walking directions.
5. Touch **Get directions**.
6. Your route is displayed on a map.
7. To view the directions in a list format, touch **List view** .


To switch back to your map route from List view, touch the **Menu Key**  > **See map**.


## YouTube™

### Opening YouTube and Watching Videos

You can browse, search for, view, upload, and rank YouTube videos on your phone with the **YouTube** application.

#### To open the YouTube application

- ▶ From the Home screen, touch the **Applications Key**  > **YouTube** 

Touch a video to watch it or touch the **Menu Key**  to take other actions on the video.





#### To watch and interact with YouTube videos

- ▶ Touch a video to play it.







- ▶ Touch the screen to view the Playback controls. You can pause and play the video or drag the slider to the point in the video you want to watch.

- ▶ Touch the **Back Key**  to stop playback and return to the videos list.
- ▶ Touch the **Menu Key**  for the following options: **Home**, **Browse**, **Search**, **My Channel**, **Upload**, and **Settings**.

For details about these features, visit the YouTube website.





### To search for videos

1. At the top of the main YouTube screen, touch  or the **Search Key** .
2. Enter the text to search for or touch the **Microphone icon**  to search by voice.
3. Touch a suggestion below the search box or touch the **Search icon** .
4. Scroll through the search results and touch a video to watch it.

### To share your videos on YouTube

You can record and share a video using the **YouTube** application. First, you must create a YouTube account and sign into it on your phone.

You can also share the videos you record with the **Camera** application by uploading them to YouTube.

1. Touch  at the top right of main YouTube screen.
2. If you want to set any configurations manually, touch the screen to open the video camera settings.
3. Point the lens to frame the scene where you want to start.
4. Touch  to start recording.
5. Touch  to stop recording.
6. Touch .

The YouTube Upload details screen is displayed.

7. Enter a title, description, and tags for your video.
8. If you want to share the video with everyone, touch the **Privacy** field and then touch **Public**. If not touch **Private**.
9. Touch **Upload**.




From the Home screen, touch the **Applications Key**  and touch **Settings**.

## Wireless & networks


Here, you can manage Wi-Fi and Bluetooth. You can also set up mobile networks and switch to airplane mode.

**Airplane mode** – After switching to airplane mode, all wireless connections are disabled.

**Wi-Fi** – This turns on Wi-Fi to connect to available Wi-Fi networks.

**Wi-Fi settings** – Allows you to set up and manage wireless access points. Set network notification, or add a Wi-Fi network. The advanced Wi-Fi settings screen is accessed from the Wi-Fi settings screen. Touch the **Menu Key**  and touch **Advanced**.

**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 **LG OPTIMUS™** into the router. You can find the MAC address in the following user interface: From the Home screen, touch the **Applications Key** > **Settings** > **Wireless & networks** > **Wi-Fi settings** > **Menu Key**  > **Advanced** > **MAC Address**.

**Bluetooth** – This turns on Bluetooth to connect to other Bluetooth devices.

**Bluetooth settings** – Set the device name and discoverable mode, scan for other devices. Or check a list of Bluetooth devices that you've previously configured and those detected when the phone last scanned for Bluetooth devices.

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

**Mobile network settings** – Set options for data roaming, network mode and operators, access point names (APNs), and others.

## Call settings

### < Voicemail >

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

**Voicemail settings** – If you are using your carrier's voicemail service, this option allows you to enter the phone number to use for listening to and managing your voicemail.

### < Other call settings >

**Excuse messages** – 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.

**Auto retry** – Allows you to enable or disable Auto retry mode.

**TTY mode** – Allows you to enable or disable TTY.

**DTMF tones** – Set the length of DTMF tones.

**Auto answer** – Allows you to enable or disable Auto answer with Handsfree.

**Call restrictions** – Restrict incoming or outgoing call.

**Call duration** – View the duration of calls including all calls, dialed calls, received calls and last call.

## Sound

### < General >

**Silent mode** – Silence all sound except media & alarms

**Vibrate** – Allows you to set the vibrate mode.

**Volume** – Allows you to set the volume for ringtones, media and alarms. If you uncheck the option to use the incoming call volume for notifications, you can set the volume for incoming calls and notifications separately.

### < Incoming calls >

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

### < Notifications >

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

### < Feedback >

**Audible touch tones** – Play tones when using the dial pad.

**Audible selection** – Play sound when making a screen selection.

**Screen lock sounds** – Play sounds when locking and unlocking the screen.

**Haptic feedback** – Vibrate when pressing soft keys and on certain UI interactions.

**Emergency tone** – Set behavior when an emergency call is placed.

## Display

**Brightness** – Adjust the screen brightness.

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

**Animation** – Set to display an animation.

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

## Location & security

**Use wireless networks** – If enabled, your phone determines your approximate location using Wi-Fi and mobile networks. When you select this option, you're asked whether you consent to allowing Google to use your location when providing these services.

**Use GPS satellites** – If enabled, your phone determines your location to street level accuracy.

**Use assisted GPS** – If enabled, your phone uses the server to assist GPS.

**Set up screen lock** – Set a **Pattern**, **PIN** or **Password** to secure your phone.

When you turn on your phone or wake up the screen, you're asked to draw your unlock pattern or enter the PIN or password to unlock the screen.

**Visible passwords** – Select to show passwords as you type them or deselect to hide passwords as you type them.

**Select device administrators** – Add one or more administrators.

**Use secure credentials** – Allows you to access secure certificates.

**Install from SD card** – Choose to install encrypted certificates from your SD card.

**Set password** – Set or change the credential storage password.

**Clear storage** – Clear credentials for all content and reset password.

## **Applications**

You can manage applications.

**Unknown sources** – Allows you to install non-Market applications.

**Manage applications** – Manage and remove installed applications.

**Running services** – Check services that are currently running.

**Storage use** – View storage used by applications.

**Battery use** – See what has been using the battery.

**Development** – Set options for application development.

## **Accounts & sync**

< **General sync settings** >

**Background data** – Permits applications to synchronize data in the background, whether or not you are actively working in them. Unchecking this setting can save battery power and lowers (but does not eliminate) data usage.

**Auto-sync** – Permits applications to synchronize, send and receive data to their own schedule.

### < Manage accounts >

List of all Google accounts and other accounts you've added to your phone. If you touch an account in this screen, its account screen opens.

## Privacy

If you select **Factory data reset**, it will erase all of your personal data from the internal phone storage, including information about your Google account, any other accounts, your system/application data and settings as well as any downloaded applications and DRM licence. Resetting the phone does not erase any system software updates you have downloaded or any files on your microSD card, such as music or photos. If you reset the phone in this way, you are prompted to re-enter the same information that you did when you first started Android.

**Back up my data** – Back up application data, Wi-Fi passwords, and other settings to Google servers

**Automatic restore** – If reinstall an application, restore backed up settings or other data.

**Factory data reset** – Erases all data on phone

## Storage

### < Internal memory >

**Total space** – Shows the total space of the internal memory.

**Available space** – Shows the available space of the internal memory.

**Erase internal memory** – Format(erase) the internal memory

### < SD card >

**Total space** – Shows the total space of the SD card.

**Available space** – Shows the available space of the SD card.

**Mount SD card** – Insert an SD card for mounting

**Erase SD card** - Erases all data on the SD card, such as music and photos.

< System Memory >

**Available space** - Shows the available space of the system memory.

## Language & keyboard

Set Device Language and keyboard settings.

## Voice input & output

< Voice input >

**Voice recogniser settings** – Use the Voice recogniser settings to configure the Android voice input feature.

- **Language:** Opens a screen where you can set the language you use speech to enter text.
- **SafeSearch:** Opens a dialog where you can set whether you want the Google SafeSearch filter to block some results.
- **Block offensive words:** When unchecked, Google voice transcribes words many people consider offensive when you use speech to enter text. When checked, Google voice recognition replaces those words in transcriptions with a placeholder comprised of hash symbols ( # ).
- **Personalized recognition:** Checkmark to improve speech recognition accuracy.
- **Google Account dashboard:** Opens the Google Account web page to manage your collected data.

< Voice output >

**Text-to-speech settings** – Use the **Text-to-speech settings** to configure the Android text-to-speech synthesizer for applications that can use this feature.

**NOTE** If you don't have speech synthesizer data installed, only the **Install voice data setting** is available.

- **Listen to an example:** Plays a brief sample of the speech synthesizer, using your current settings.
- **Always use my settings:** Checkmark to use the settings on this screen in place of speech synthesizer settings available in other applications.
- **Default Engine:** Opens a dialog where you can set the text-to-speech application you want to use, if you have more than one installed.
- **Install voice data:** If your phone does not have speech synthesizer data installed, this connects to Android Market and guides you through the process of downloading and installing the data. This setting is not available if the data is already installed.
- **Speech rate:** Opens a dialog where you can select how quickly you want the synthesizer to speak.
- **Language:** Opens a dialog where you can select the language of the text you want the synthesizer to read. This is particularly useful in combination with **Always use my settings** to ensure that text is spoken correctly in a variety of applications.
- **Pico TTS:** Configure the **Pico TTS settings**.

## Connectivity

### <USB connection mode>

**Default connection mode** – Opens a dialog box to choose the default connection mode when connecting your phone to a PC via USB. Choose from Mass storage or Internet connection.

**Always ask** – Checkmark to have the phone ask you to choose which USB connection mode it should connect with to a PC.

## Accessibility

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

**NOTE** requires additional plug-ins.

## Date & time

Use **Date & time** settings to set your preference for how dates are displayed.




## About Phone

View legal information and check phone status and software version.


## Wi-Fi

With Wi-Fi, you can use high-speed Internet access within the coverage of the wireless access point (AP). Enjoy wireless Internet using Wi-Fi, without extra charges.

## Turning on Wi-Fi

From the Home screen, open the Status Bar and touch . Or from the Home screen touch the **Applications Key**  > **Settings** > **Wireless & networks** > **Wi-Fi** .

## Connecting to Wi-Fi

Choose the Wi-Fi network you want to connect to. If you see , you need to enter a password to connect.

- NOTE**
- If you are outside the Wi-Fi coverage area and connect via 3G connection, additional charges may apply.
  - If your phone goes into sleep mode when connected to Wi-Fi, the Wi-Fi connection is automatically disabled.
  - In this case, if your phone has access to 3G data, it may connect to the 3G network automatically and additional charges may apply.
  - The LG OPTIMUS™ supports WEP, WPA/WPA2-PSK and 802.1x EAP security. If your Wi-Fi service provider or network administrator sets encryption for network security, enter the key into the pop-up window. If encryption is not set, this pop-up window is not shown. Obtain the key from your Wi-Fi service provider or network administrator.



## 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, 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.
- 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>), click on “A to Z Index” and under “C” in the subject index, select Cell Phones > Current Research Results.

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

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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 0.59 inches (1.5 cm) between the user's body and the back of the phone. To comply with FCC RF exposure requirements, a minimum separation distance of 0.59 inches (1.5 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 should not be used. Body-worn accessories that cannot maintain 0.59 inches (1.5 cm) separation distance between the user's body and the back of the phone, and have not been tested for typical body-worn operations may not comply with FCC RF exposure limits and should be avoided.

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 1.11 W/kg and when worn on the body, as described in this user's manual, is 1.26 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.

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.

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) mode off for HAC.

According to HAC policy(KDB 285076), we state this handset has not been rated for hearing aid compatibility with respect to the WiFi capability.

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)





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***Al seleccionar un plan y activar su teléfono, usted acuerda a los términos y condiciones de servicio disponible en [metropcs.com](http://metropcs.com).***



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