LG Escape[™] 870 Manual







Table of Contents

Warranty Statement	5
Support	5
Important Notice	7
Your Phone	12
Getting Started	14
Installing the SIM card and battery Charging your phone Inserting a microSD card Removing the microSD card Formatting the microSD card Switching between and exiting applications	14 15 15 16 17
Your Home screen	18
Touch screen tips Proximity sensor Lock your phone Quick Switch to Silent Mode Home screen panels Customizing your Home screen Customizing App Icons on the Home	18 19 19 20 20
screen	
Getting back to a recently used application Home screen clean view Notifications Panel	22

5 5 7	Viewing the Status Bar On-screen Keyboard 123 Mode Entering Accented Letters	24 26
.12	Google Account Setup	
.14	Signing into your Google account	
.14 .15	Calls	
.15	Making a call Calling your contacts	
.16	Answering and rejecting a call	
.17	Adjusting the in-call volume	29
.17	Making a second call	
. 17	Viewing your call logs	
.18	Call settings	30
.18	Contacts	31
.18	Searching for a contact	
.19	Adding a new contact	
.19 .20	Favorite Contacts	
.20	Address Book	32
)	Messaging/Email	33
.21	Messaging	
01	Email	
.21 22	Social Networking	37
.22	Adding an account to your phone	

Table of Contents

Adding a social networking widget on the Home screen37 Viewing and updating your status38 Syncing accounts on your phone38 Removing accounts on your phone38	
Camera Getting to know the viewfinder Taking a photo Once you've taken the photo	39 40
Using the advanced settings Viewing your saved photos Setting a photo as wallpaper	40 42
Video Camera Getting to know the viewfinder Recording a video After recording a video Using the advanced settings Watching your saved videos Adjusting the volume when viewing	43 44 44 44 45
video	45
video Multimedia Gallery	46

How to save music/video files to the phone......47

phone Playing a song Working with Playlists To add a song to a playlist To remove a song from a playlist To rename or delete a playlist Using SmartShare	.47 .48 .48 .48 .48
Google Applications	
About Google applications	
Google Maps™	.51
Searching For Locations and Places	
Getting Directions	
Clear Map Latitude	
Places	
Play Store™	.53
Play Store™ Gmail™	.54
Google Talk™	.55
Utilities	.57
QuickMemo [™]	
Setting the alarm	.58
Using the calculator	.58
Adding an event to your calendar	.58
Polaris Office	
Voice Dialer	
Voice Recorder	.61

How to play music/video files on the

Table of Contents

The Web	62
Browser	62
Using options	
Adding bookmarks	
Changing the Browser settings	
0 0	
Settings	
WIRELESS & NETWORKS	
Wi-Fi	64
Bluetooth	65
Data usage	66
Airplane mode	67
NFC	68
Android Beam	68
VPN	
Mobile networks	69
DEVICE	69
Sound	
Display	70
Home screen	
Lock screen	70
Gestures	71
Storage	71
Power saver	72
Apps	
PERSONAL	73
Accounts & sync	73
Location services	73
Security	73

62 62 62	Language & input Backup & reset SYSTEM	75 75
63 63 . .64	Date & time Accessibility Connectivity	75
04 64	LG On-Screen Phone 2.1	78
64 65	Developer options About phone	
66	Software Update	81
67 68 68 68	Phone Software Update LG Mobile Phone Software update Over-the-Air (OTA)	81 via
69	Trademarks	82
69	Trademarks	82
69 70	DivX Mobile	82
70	DTS	
70	Dolby Mobile	82
71	Q&A	83
72	Accessories	84
72 73	For Your Safety	85
73 73	Safety Guidelines	90

Warranty Information

Warranty And Technical Data

This product is guaranteed for a period of 12 months from the date of purchase. In the unlikely event of a fault occurring during this period, please contact the place of purchase. Proof of purchase is required for any service or support needed during the guarantee period.

This guarantee will not apply to a fault caused by an accident or a similar incident or damage, liquid ingress, negligence, abnormal usage, non-maintenance or any other circumstances on the user's part. Furthermore, this guarantee will not apply to any fault caused by a thunderstorm or any other voltage fluctuations. As a matter of precaution, we recommend disconnecting the charger during a thunderstorm.

Batteries are consumables and are not included in any guarantee.

This guarantee does not apply if batteries other than LG original batteries are used.

Support

For assistance, please contact:

 Email:
 service@ConsumerCellular.com

 Website:
 www.ConsumerCellular.com/support

 Telephone:
 1-800-686-4460

 Need to test your cell phone?
 At any time you can place a mobile phone test call to our FREE test line by dialing 1-888-460-8781 from your cellular phone. If the call is completed correctly you will hear a recorded message telling you that your mobile phone is working.

Check your minutes or change your plan.

With Consumer Cellular you are in control and can change your plan at any time. To check your usage and change your plan just go to My Account at: www.ConsumerCellular.com

Or call 1-888-373-1777 any time. The call is free.

Further information is available on our website: www.ConsumerCellular.com OR www.LG.com

Product Page: www.ConsumerCellular.com/LgEscape

You may also view helpful how-to videos at: www.ConsumerCellular/Support/VideosandManuals

Specifications

Network: GSM 850 / 900 / 1800 / 1900 WCDMA 850 / 1900 / 2100

Dimensions: 4.96" x 2.54" x 0.37" (126 x 65 x 9.4 mm)

Weight: 4.5 oz (128 g)

Battery: 2150 mAh Lilon battery

Important Notice

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

1. Phone Memory

In order to make more memory available, you will have to manage your applications and delete some data, such as applications or messages.

Managing Applications

- From the Home screen, tap the Menu Key
 and tap Settings > Apps.
- 2 Tap one of the available tabs at the top of the screen and select the application you want to uninstall.
- 3 Tap Uninstall and then tap OK to confirm that you want to uninstall the desired application.

2. Optimizing Battery Life

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

To extend the life of your battery

- Turn off radio communications that you aren't using, such as Wi-Fi, Bluetooth, or GPS.
 Wi-Fi will be set to On the first time you use your newly purchased phone.
- Lower 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 power to be reduced.
- While using downloaded applications, check the battery charge level.

To view the battery charge level

- 1 From the Home screen, tap the Menu Key and tap Settings > About phone > Status.
- 2 The battery status (charging or discharging) and level are displayed at the top of the screen.

To monitor and control what uses the battery

1 From the Home screen, tap the Menu Key and tap Settings > Power saver > Battery use.

Important notice

2 The top of the screen displays battery usage time. It lists all of the applications or services using battery power from the greatest amount of energy used to the least amount.

3. Installing an Open Source Operating System

Installing an open source operating system on your phone and not using the operating system provided by the manufacturer can cause your phone to malfunction.

\rm Warning

- If you install and use an operating system other than the one provided by the manufacturer, your phone is no longer covered by the warranty.
- To protect your phone and personal data, download applications only from trusted sources, such as Play Store. If some applications are not properly installed on your phone, your phone may not work properly- or serious errors may occur. You will need to uninstall those applications and all of its data and settings from the phone.

4. Using the Swipe, Face Unlock, Pattern, PIN, or Password

Set Swipe, Face unlock, Pattern, PIN, or Password to secure your phone. To set the screen lock, follow the process below. From the Home screen, tap the **Menu Key** [Image: A screen settings > Select screen lock and select a desired screen lock from Swipe, Face Unlock, Pattern, PIN and Password.

NOTE

In case that you have trouble with Face Unlock, you can unlock the screen with a PIN as a backup. Please note that this feature is only available after you set up your Google account on your device.

Warning

Take precautions when using an unlock Pattern, PIN, or Password. It is very important that you remember the screen unlock information you set. You are allowed 5 attempts to enter your screen unlock information. If you used up all 5 opportunities, you will have to wait 30 seconds to attempt unlocking the phone again.

When you can't recall your Unlock Pattern, PIN, or Password:

If you logged into a Google account on the phone and failed to use the correct pattern 5 times, tap **Forgot pattern?** You will be required to sign in with your Google account and prompted to create a new unlock pattern.

If you have set a backup PIN, you can unlock the screen by entering the backup PIN.

If you haven't created a Google account on the phone or you forgot your PIN , Password, and the backup PIN, you need to perform a hard reset.

Caution

If you perform a hard reset, all user applications and user data will be deleted. Please remember to back up any important data before performing a hard reset. Read ALL steps before attempting.

- 1 Turn the phone off.
- 2 At the same time press and hold Volume Down Key | + Power/Lock Key |.
- 3 When phone vibrates, release keys and repeatedly tap the **Back Key** + Home **Key** until the green Android Robot animation appears.
- 4 Your device will perform a hard reset.

5. Using Safe Mode

To recover your phone when malfunctioning.

- Turn off your phone and reboot. When you see the booting animation (Rethink Possible SM) press and hold the **Volume Down Key (**). Your main screen will then be displayed with the words "Safe mode" in lower left corner.
- 2 From the Home screen, tap the **Menu Key** and tap **Settings > Apps**.
- 3 Tap one of the available tabs at the top of the screen and select the application you wish to uninstall.
- 4 Tap Uninstall and OK to confirm.

Important notice

5 After uninstalling the application, turn off and reboot your phone.

6. Using a microSD Card

Pictures, Music and Video files, can be saved to external memory. Before saving these files to external memory, you need to insert a microSD card. If you have not inserted a microSD card, you will not be able to save these items on external memory.

Warning

Do not remove the microSD card without unmounting it first. Otherwise, it may damage the microSD card as well as your phone, and the data stored on the microSD card may be corrupted. To unmount the microSD card, from the Home screen, tap the **Menu Key (**) and tap **Settings** > **Storage** > **Unmount SD card** > **OK**.

7. Connecting your phone to a computer via USB

- 1 Use the USB cable that was provided with your phone to connect the phone to a USB port on your computer. You'll receive a notification that the USB is connected and can see USB connection mode screen.
- 2 Tap Media sync (MTP) or Camera (PTP) to confirm that you want to transfer files between your phone's microSD card and the computer.

When the phone is connected as USB storage, you receive a notification. Your phone's microSD card is installed as a drive on your computer. You can now copy files to and from the microSD card.

\rm 🛛 TIP

You cannot access the microSD card from your phone while connected as USB storage. So you cannot use applications that rely on the microSD card, such as Music.

8. Unlock screen when using data connection

Your screen will go dark if untouched for a period of time. To turn on your LCD screen, press the **Power/Lock Key** . To change the length of time the screen takes to turn off, tap the **Menu Key > Settings** > **Display** > **Screen timeout** and select the desired amount.

9. Hold the phone straight up

Please hold the mobile phone straight up as a regular phone.

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

10. When the screen freezes

If the phone does not respond to user input or the screen freezes:

Press and hold the **Power/Lock Key** for 10 seconds to turn it off. Then, press and hold the **Power/Lock Key** again for 3 seconds to reboot the phone.

11. Do not connect your phone when you power on/off your PC

Make sure to disconnect your phone from the PC when powering your PC on or off as it might result in PC errors.



To turn on the phone, press and hold the **Power/Lock Key** on the right side of the phone for 3 seconds. To turn off the phone, press the **Power/Lock Key** on the right side of the phone for 3 seconds and tap **Power** off and **OK** to confirm.

Front view

Earpiece

Front Camera Lens

 Use to take a picture of yourself or to video chat on supported applications.

Quick Keys

- Gives you quick access to your most used applications.
- To add an icon, drag and drop it in the bar.
- To remove an icon, touch and hold it and remove it from the bar.

Back Key 📼

- Returns to the previous screen.
- Closes pop-up menus and dialog boxes.



Proximity Sensor

 Senses proximity toward other objects, such as your head during a call, so that you do not accidentally activate unwanted features.

Power/Lock Key

- Powers your phone on/off.
- Turns your screen on and off and locks it.

Menu Key 🔳

- Displays available options for the current screen or application.
- Touch and hold to search within the current application (not available for all applications).

Home Key 💼

- Returns to the Home screen from any screen.
- Touch and hold to display a list of your most recently used apps.

Warning

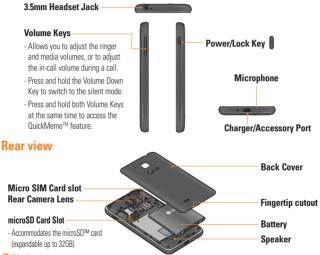
Placing a heavy object on the phone or sitting on it can damage its LCD and touch screen functionalities. Do not cover the LCD's proximity sensor with a protective film. This can cause the sensor to malfunction



TIPS

- Tap the Menu Key 💼 whenever you open an application to check what options are available.
- If your phone has errors when you use it or you cannot turn it on, remove the battery, install it again and turn it on after 5 seconds.

Side view



Notice

The NFC antenna for this model is on the back cover. This back cover is the only one that is offered with the model.

Getting Started

Installing the SIM card and battery

Before you can start exploring your new phone, you'll need to set it up. To insert the SIM card and battery:

1 Hold the phone on your hand firmly. With the other hand, lift the back cover using the fingertip cutout located on the bottom of the cover and remove it.



2 Slide the SIM card into the SIM card slot. Make sure the gold contact area on the card is facing downwards.

NOTE

Please insert the notched side of the SIM card first. Refer to the image inscribed above the SIM card slot.



 Insert the battery into place by aligning the gold contacts on the phone and the battery
 and press the battery down until it clicks into place



4 Replace the back cover of the phone ①. Apply a steady downward pressure until the battery cover clicks into place ②.



Charging your phone

 Connect the wall adapter and USB cable as shown below. The USB symbol on the USB cable should face toward you.



2 Plug the USB cable (as shown below) into the phone's Charger/Accessory Port. Make sure the USB symbol is facing upwards.



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

NOTE

The battery must be fully charged initially to improve battery lifetime.

NOTE

Your phone has an internal antenna. Be careful not to scratch or damage this rear area, as that will cause loss of performance.

When the battery becomes fully discharged and you connect the phone to a charger, the LED lights for the keys at the bottom of the phone will blink. This is normal operation for a completely discharged battery to prevent overflowing current because the phone is designed to provide reasonable protection against damage to the battery. Once the battery has enough charge, the screen will turn on and display a battery image.

Inserting a microSD card • NOTE

This device supports up to a 32GB microSD card.

1 Remove the back cover.

Getting Started



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

NOTE

Please insert the notched side of the microSD card first. Refer to the image above the microSD card slot.





NOTE

Some downloaded applications store data on the microSD card as well as on the phone. Due to this feature, if you skip the unmount procedure, it can cause an error because information between the microSD card and the phone is not accorded properly. In the worst case, the microSD card can be corrupted or damaged.

Removing the microSD card

To safely remove the microSD card from your phone, you must first unmount it.

- 1 From the Home screen, tap the Menu Key and tap Settings > Storage > Unmount SD card > OK.
- 2 Remove the battery cover and gently pull the microSD card from the slot.

Warning

Do not remove the microSD card without unmounting it first. Otherwise, it may damage the microSD card as well as your phone, and the data stored on the microSD card may be corrupted.

Formatting the microSD card

Your microSD card may already be formatted. If it isn't, you must format it before you can use it.

NOTE

All files on the card are deleted when you format the microSD card.

- 1 From the Home screen, tap the Menu Key and tap Settings > Storage > Unmount SD card > OK.
- 2 Tap Erase SD card twice.
- 3 If you set an unlock pattern, enter it and tap Erase everything. The card will then be formatted and ready to use.

NOTE

If there is content on your microSD card, the folder structure may be different after formatting since all the files will have been deleted.

Switching between and exiting applications

Multi-tasking is easy with Android because open applications keep running even when you open another application. There is no need to quit an application before opening another. Use and switch among several open applications. Android manages each application, stopping and starting them as needed, to ensure that idle applications don't consume resources unnecessarily.

Switching between applications

- Touch and hold the Home Key . A list of recently used applications will be displayed. Then tap the application you want to access.
- To remove an application from the list, swipe the app preview to the left or right.
- To stop/exit an application
- From the Home screen, tap the Menu Key
 and tap Settings > Apps.
- 2 Tap one of the tabs at the top of the screen, choose the desired application and tap Force stop to stop the application.

Your Home screen

Touch screen tips

With the touch of your finger, you can access available applications, make menu selections, and access data saved to your phone. The following terms are used for describing the different available actions using the touchscreen:

Tap - A single finger tap selects items, links, shortcuts and letters on the on-screen keyboard.

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 contact's available options, touch and hold the contact in the Contacts list until the context menu opens.

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 slide the screen up or down to scroll through a list, or browse through the different Home screens by swiping from left to right (and vice versa). Double-tap - Double-tap to zoom on a web page or a map. For example, quickly double-tap a section of a web page to adjust that section to fit the width of the screen. You can also double-tap to zoom in and out when using Maps.

Pinch-to-Zoom - Use your index finger and thumb in a pinch or spread motion to zoom in or out when using the Browser, Maps, or browsing pictures.

Rotate the screen - From many applications and menus, the orientation of the screen adjusts to the device's physical orientation.

NOTE

- To select an item, tap the center of the icon.
- Do not to press too hard; the touch screen is sensitive enough to pick up a light, firm touch.
- Use the tip of your finger to tap the option you want. Be careful not to tap any other keys or icons.

Proximity sensor

When receiving and making calls, this sensor automatically turns the backlight off and locks the touch keypad by sensing when the phone is near your ear. This extends battery life and prevents the touch keypad from activating unintentionally during calls.

Lock your phone

When you are not using the LG Escape 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 other screen you are viewing, is automatically replaced with the lock screen after 30 seconds of inactivity to conserve the battery and prevent pocket dialing.

To wake up your phone, press the **Power/** Lock Key (). The lock screen will appear. Swipe the screen in any direction to unlock. The last screen you were working on opens.

NOTE

- The automatic screen timeout can be configured manually in Settings. To change it, tap the Menu Key > Settings > Display > Screen timeout and select the desired amount.
- If there are any programs running when you lock the phone, they may still be running in lock mode. It is recommended that you exit all programs before entering the lock mode to avoid unnecessary charges (e.g., phone call, web access and data communications).

Setting Swipe, Face Unlock, Pattern, PIN, Password to unlock your phone

You can slide the screen without entering any information, utilize facial recognition, draw your own unlock Pattern or enter a PIN or Password to add more security to your device. To set Swipe, Face Unlock, Pattern, PIN, or Password, from the Home screen tap the **Menu Key** > Lock screen settings > Select screen lock. Then choose from **Swipe**, Face Unlock, Pattern, PIN, or **Password** and enter the desired information.

Caution

You are allowed 5 attempts to enter your screen unlock information. If you used up all 5 opportunities, you will have to wait 30 seconds to attempt unlocking the phone again.

NOTE

The Face Unlock feature is only available after you set up your Google account on your device.

Quick Switch to Silent Mode

To quickly set your phone to silent mode, press and hold the **Volume Down Key** until you see *for the screen*.

Home screen panels

Simply swipe your finger to the left or right to view the different panels.

You can also customize each panel with shortcuts, folders, and widgets, which are shortcuts to your favorite applications.

NOTE

On the Home screen, you can view the Quick Keys at the bottom of the screen. The Quick Keys provide easy, one-tap access to the functions you use the most.

Customizing your Home screen

You can customize your Home screen by adding quick access elements, such as shortcuts to an application, widgets, or changing the wallpaper.

- **Apps**: Add shortcuts to applications on the Home screen.
- **Downloads**: Add shortcuts to downloaded applications on the Home screen.
- Widgets: Add dynamically updating widgets to your Home screen to allow quick access to applications without opening the full application.
- Wallpapers: Change the Home screen wallpaper.

To add shortcuts to apps or Widgets on the Home screen:

- Select a location (Home screen panels) to add an item by swiping the Home screen from left to right or vice versa.
- 2 Tap 🛨. Or touch and hold an empty part of the Home screen.
- 3 Tap the type of item you want to add on the screen: Apps, Downloads, Widgets, or Wallpapers.
- 4 Tap the desired app or widget.
- 5 You will see a new icon on the Home screen. To place it on a different panel, touch and hold it to drag it to the desired location on the desired panel and release your finger from the screen.

\rm IP

To add a preloaded application or an application you have downloaded from Play Store to the Home screen, simply touch and hold the icon you want in the Apps Screen.

NOTE

If there is no available space on a particular Home screen panel, 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 panel. To delete an application icon from the Home screen, touch and hold the shortcut icon you want to delete and drag to **Remove** at the top of the screen. When changes to changes to changes to change in the screen.

You cannot delete the preloaded applications. (Only their icons can be deleted from the screen).

Customizing App Icons on the Home screen

You can customize each application icon.

 Touch and hold an application icon until it's unlocked from its current position. Then drop it on the screen. The editing icon will appear in the upper right corner of the application.



2 Tap the application icon again and select the a desired icon design. Or tap Create photo icon to take a new picture or select a picture from the Gallery.



Getting back to a recently used application

- 1 Touch and hold the **Home Key**. The screen will display the icons of applications that you have used recently.
- 2 Tap an icon to open its application or tap the **Back Key** to return to the current application.

Your Home screen

Home screen clean view

You can see the wallpaper without items on the Home screen by pinching out. Pinch in or tap the Back Key \blacksquare to see applications and widgets again.



Notifications Panel

Notification icons on the Status Bar report the arrival of new messages, calendar events, alarms, as well as ongoing events, such as when you are in a call. You can view a list of all recent notifications.

The Status Bar runs across the top of your screen.





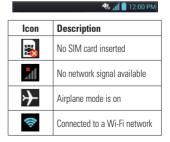
Touch and hold the Status Bar and slide it down with your finger to open the Notifications Panel. From here, you can check and quickly turn on and off Sound, Wi-Fi, Bluetooth, GPS, and any other options you add.

Viewing the Status Bar

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

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

[Status Bar]



lcon	Description
•	Wired headset connected
٩.,	Call in progress
\$	Call on hold
C »	Speakerphone is on
1	Phone microphone is muted
×	Missed call
8	Bluetooth is on
	System warning
\mathfrak{Q}	An alarm is set
മ	New voicemail available
×	Ringer is silenced
Έ.	Vibrate mode is on
1001-	Battery fully charged

lcon	Description
5	Battery is charging
ψ	Phone is connected to PC via USB cable
<u> </u>	Downloading data
_	Uploading data
\diamond	GPS is on
\odot	Receiving location data from GPS
C	Data is synchronizing
Σ	New Gmail message available
talk	New Google Talk message available
Ē.	New text or multimedia message
	A song is currently playing
s <u>in</u> a	Select input method

On-screen Keyboard

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

There are two types of keypads that you can use: Android keyboard and LG keyboard. To select the keyboard:

- 1 Tap the Menu Key > Settings > Language & input > Default (Under KEYBOARD & INPUT METHODS).
- 2 Select the default keyboard between Android keyboard and LG Keyboard.

OR

- While entering text, drag the Status Bar down and tap Select input method.
- 2 Select the desired input method from Android keyboard, Google voice typing or LG Keyboard.

Android keyboard - Letters Entry



- Shift Key Tap once to capitalize the next letter you type. Double-tap for all caps.
- Our Number and Symbols Key Tap to change input to number and symbol entry.
- Ovice to Text/Settings Key Tap to enter text by voice. Touch and hold to set various keyboard settings.
- **O Space Key** Tap to enter a space.
- 6 Emoticon Key Tap to enter various emoticons.
- O Delete Key Tap to delete characters to the left of the cursor.

Android keyboard -Numbers and Symbols Entry



- Alt Key Tap to enter additional symbols. The keyboard will change to alternate characters.
- Letters Key Tap to change input to letters entry.
- Settings Key Touch and hold to set various Android keyboard settings.
- O Space Key Tap to enter a space.
- 6 Emoticon Key Tap to enter various emoticons.
- O Delete Key Tap to delete characters to the left of the cursor.

LG keyboard - Letters Entry



- Shift Key Tap once to capitalize the next letter you type. Double-tap for all caps.
- O Number and Symbols/Settings Key - Tap to change input to number and symbol entry. Touch and hold to set various LG keyboard settings.
- Older the set of the cursor.
- Inter Key Tap to move the cursor to the next line.

Your Home screen

LG keyboard - Numbers and Symbols Entry



- Alt Key Tap to enter additional symbols. The keyboard will change to alternate characters.
- 2 Letters/ Settings Key Tap to change input to letters entry. Touch and hold to set various LG keyboard settings.
- 6) Space Key Tap to enter a space.
- Oblete Key Tap to delete characters to the left of the cursor.
- 6 Enter Key Tap to move the cursor to the next line.

123 Mode

This mode allows you to enter numbers in a text message (a telephone number, for example) more quickly. Tap the keys corresponding to the required digits before manually switching back to the appropriate text entry mode by tapping

Entering Accented Letters

The on-screen keyboard allows you to enter special characters (e.g., "á").

To input the accent, press and hold the desired key (press the "a" key for example).

After the accented character appears, slide your finger over it and lift it off it to enter it.

Google Account Setup

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

Creating your Google account

- 1 From the Home screen, tap the **Apps Key**
- 2 Tap **Gmail** > **Create** to start the Gmail[™] setup wizard.
- **3** Tap a text field to open the keyboard and enter your name and tap **Next**.
- 4 Enter your username and tap Next. Your phone will communicate with Google servers and check for username availability.
- 5 Enter and re-enter your password. Then follow the instructions and enter the required and optional information about the account. Wait while the server creates your account.

Signing into your Google account

- 1 Enter your email address and password, then tap **Sign in** (If accessing Gmail for the first time, tap **Existing** prior to this step).
- 2 Choose to join Google+ which makes sharing on the web more like real life sharing. You can choose Circles, Instant Upload, and Messenger. Tap the Join Google+ to join or Not Now to skip this step.
- 3 Set the backup and restore options and tap **Next**.
- 4 Once you have set up your Google account, your phone will be automatically synchronized with your Google account on the web. (Depending on your synchronization settings.)

After signing in, your phone will sync with your Google services, such as Gmail[™], Contacts, Google Calendar, and Picasa photo albums. You can also use Google Maps[™], download applications from Play Store[™], back up your settings to Google services on your phone.

Google Account Setup

IMPORTANT

- Some applications, such as Calendar, work only with the first Google Account you add. If you plan to use more than one Google Account with your phone, be sure to sign into the one you want to use with such applications 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 don't sign into a Google Account during setup, you will be prompted to sign in or to create a Google Account the first time you start an application that requires one, such as Gmail or Play StoreTM.
- If you have an enterprise account through your company or other organization, your IT department may have special instructions on how to sign into that account.

Making a call

- 1 From the Home screen, tap the **Phone Key** to open the keypad.
- 2 Enter the number on the keypad. To delete a digit, tap the **Clear Key** .
- 3 Tap the Call Key 💽 to make a call.
- 4 To end a call, tap the End Key 🔼

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To enter "+" to make international calls, touch and hold 0 · .

Calling your contacts

- From the Home screen, tap the Apps Key and then tap Contacts to open your contacts.
- 2 Scroll through the contact list or tap the Search box and enter the first letter(s) of the contact you want to call. You can also tap the letters along the right side of the screen.
- 3 In the list that is displayed, tap the contact you want to call.
- 4 In the Contact Info screen, tap the phone number you wish to call.

Answering and rejecting a call

When the screen is locked

When your phone rings, swipe the **Answer** icon *c* in any direction to answer the incoming call.

Swipe the **Decline** icon **S** in any direction to reject an incoming call. Swipe the **Quick msg** icon **S** in any direction if you want to send a message to the caller.

When the screen is unlocked

When your phone rings, tap the **Answer Key S**. Tap the **Decline Key T** to reject an

incoming call.

Tap the **Quick msg Key** if you want to send a message to the caller.

NOTE

If the caller is unknown, the **Quick msg Key** is not available.

Adjusting the in-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, tap the **Menu Key** = and select **Add call**.
- 2 Dial the number or search your contacts.
- 3 Tap the Call Key 💽 to connect the call.
- 4 Both calls will be displayed on the call screen. Your initial call will be put on hold.
- 5 Tap the Call entry on the screen to toggle between active calls or tap **Merge call** $\underline{\uparrow}$ to merge the calls.
- 6 To end active calls, tap the End Key If there is no active call, it will end the call on hold.

NOTE

You will be charged for each call you make.

Viewing your call logs

From the Home screen, tap the **Phone Key** and the **Call logs** tab.

You can view a complete list of all dialed, received, and missed voice calls.

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Tap any single call log entry to view the date, time, and duration of the call.

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Tap the **Menu Key** (**D**), then tap **Delete all** to delete all the recorded items.

Call settings

You can configure phone call settings, such as call forwarding, and other special features offered by your carrier.

- 1 From the Home screen, tap the **Menu Key** and tap **Settings**.
- 2 Tap Call.
- 3 Set any of the available options.

Contacts

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

Searching for a contact

- 1 From the Home screen, tap the **Apps Key** and then tap **Contacts** to open your contacts.
- 2 Tap the **Search** field and enter the contact name using the keypad.

Adding a new contact

- 1 From the Home screen, tap the Phone Key and enter the new contact's number. Tap the Menu Key , tap Add to Contacts and then Create new contact.
- 2 Tap contact (Account Field) at the top of the screen to select where to add the new contact. Locations depend on the type of accounts you have added to your device.

NOTE

The entry field varies depending on the account.

- 3 If you want to add a picture to the new contact, tap . Choose from Take photo or Select from Gallery. Then browse for an image and select it.
- 4 Tap Solution to enter more specific name information.
- 5 Enter the details about your contact.
- 6 Tap Save to save the contact entry.

Favorite Contacts

You can classify frequently called contacts as favorites.

To add a contact to your favorites

- 1 From the Home screen, tap the **Apps Key** and then **Contacts** to open your contacts.
- 2 Tap a contact to view its details.
- 3 Tap the star to the right of the contact's name. The star turns gold and the contact is added to your favorites.

To remove a contact from your favorites list

1 From the Home screen, tap the **Apps Key** and then **Contacts** to open your contacts.

Contacts

2 Tap the Favorites tab.

- 3 Tap a contact to view its details.
- 4 Tap the gold star to the right of the contact's name. The star turns grey and the contact is removed from your favorites.

Address Book

Address Book is an application that automatically syncs your contacts to an online address book for safekeeping! When you first turn on the phone or change your SIM card and tap Contacts, the application is displayed.

After signing up for this service, your information is synced on a regular basis. You can find more information on this service and access your online address book at www.att.com/addressbook. You can find the synchronization menu for the service by tapping the Menu Key >> Settings > Accounts & sync (from the PERSONAL section) > Address Book.

<mark>Me</mark>ssaging/Email

Messaging

Your phone combines text (SMS) and multimedia messaging (MMS) into one intuitive, easy-to-use menu.

Threaded box

Messages (SMS and MMS) exchanged with another party are displayed in chronological order so that you can conveniently see an overview of your conversation.

Sending a message

- Tap Messaging and the Home screen, then tap a to create a new message.
- 2 Enter a contact name or phone number in the **To** field. As you enter the contact name, matching contacts appear. You can tap a suggested recipient. You can also add multiple contacts.

NOTE

You will be charged for a text message for every person you send the message to.

- 3 Tap the text field to start entering your message.
- 4 Tap the Menu Key at to open the options menu. Choose from Discard, Add Cc/Bcc, Insert smiley, All messages,

Keyboard settings, or Save to draft.

5 Tap Send to send your message.

Warning

The 160-character limit may vary from country to country depending on how the SMS is coded and the language used in the message.

\rm Warning

If an image, video, or audio file is added to an SMS message, it will be automatically converted into an MMS message and you will be charged accordingly.

NOTE

When you get an SMS message during a call, there will be an audible notification.

Using smilies

Liven up your messages using smilies.

When writing a new message, tap the **Menu Key > Insert smiley**.

Changing your message settings

Your phone's message settings are predefined, so you can send messages immediately. You can change the settings based on your preferences.

From the Home screen, tap Messaging > Menu Key > Settings.

Email

You can use the **Email** application to read email from providers other than Gmail. The Email application supports the following account types: POP3, IMAP and Microsoft Exchange (for Enterprise users).

To open the Email application

From the Home screen, tap the Apps Key
Semail @.

The first time you open the **Email** application, a setup wizard opens to help you add an email account.

Microsoft Exchange Email Account

Email address – Enter the account email address.

Username - Enter the account username.

Password - Enter the account password.

Server address - Enter the server address.

Domain – Enter the account domain (optional). **Use SSL** – Choose whether or not to use SSL for Microsoft Exchange.

Other (POP3, IMAP) Email Account

Email address – Enter the account email address.

Password - Enter the account password.

Incoming Server Settings

POP3 / IMAP4 – Select protocol type, either POP3 or IMAP4.

Secure type - Choose from Off, SSL, or TLS.

Port number – Normally each account's default number will be displayed.

Advanced Server Settings (Outgoing)

SMTP server – Enter the outgoing email server address.

Secure type - Choose from Off, SSL, or TLS.

Port number – Normally each account's default number will be displayed.

The Accounts Screen

The **Accounts** screen lists your **Combined Inbox** and each of your email accounts.

Open Email and tap Menu Key => Accounts.

The Account list appears.

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To make a shortcut to the Inbox of an $\ensuremath{\mathsf{account}}$

In the accounts list, touch and hold an email account. Then tap **Add to home screen**.

You can tap an account to view its **Inbox**. The default account from which you send email is indicated with a checkmark.

To open your Combined Inbox

If you have configured email to send and receive email from more than one account, you can view all messages sent to all accounts in your Combined Inbox.

 Open the Accounts screen and touch Combined Inbox.

Messages in the **Combined Inbox** are color coded on the left, by account, using the same colors used for your accounts in the **Accounts** screen.

When a new email arrives in the inbox, there will be sound and vibration notification. Tap the email notification to end it.

Composing and Sending Email

- 1 In the Email application, tap Compose 🖾
- 2 Enter an address for the message's intended recipient. As you enter text, matching addresses will be offered from your contacts. Separate multiple addresses with commas.
- 3 Tap the **Cc/Bcc** field to copy or blind copy to other contacts/email addresses.
- 4 Tap the text field and enter the text of the message.
- 5 Tap **Attach** to attach the file you want to send with your message.
- 6 Tap Send to send the message.

If you are not ready to send the message, tap **Save** to save it in a **Drafts** folder. Touch a message in the **Drafts** folder to resume working on it. Your message will also be saved as a draft if you touch the **Back Key** before sending it.

Messaging/Email

Tap **Cancel** to abandon and delete a message, including any saved drafts. If you are not 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're connected to a network. If it contains any pending messages, the **Outbox** will be displayed on the **Accounts** screen.

NOTE

The messages sent using an Exchange account will not be stored on the phone; they will be stored on the Exchange server itself. If you want to see your sent messages in the **Sent** folder, you may need to open the **Sent** folder and select **Refresh** from the options menu.

Working with Account Folders

Each account has **Inbox**, **Outbox**, **Sent**, **Drafts**, **Trash** and **Junk folders**. Depending on the features your account service provider supports, you may have additional folders.

Adding and Editing Email Accounts To add an email account

1 From the Home screen, tap the **Apps Key**

2 Select the desired email provider.

If an email account is already set up, the wizard is not activated automatically.

In this case, tap the **Menu Key** > **Add account** on the Accounts screen.

To change account settings

- 1 Open the Accounts screen.
- 2 Tap the Menu Key 💼 > Settings.

To delete an email account

- 1 Open the Accounts screen.
- 2 Touch and hold the account you want to delete.
- 3 Tap Delete account in the context menu and tap OK in the dialogue box to confirm.

Social Networking

With your phone, you can enjoy social networking and manage your micro-blog in on-line communities. You can update your current status, upload photos, and view your friends' status updates in real-time.

You can add your Facebook and Twitter accounts to your phone. If you don't have an account, you can visit their sites to set one up.

NOTE

Additional costs may be incurred when connecting and using online services. Check your data charges with your network provider.

Adding an account to your phone

- From the Home screen, tap the Menu Key
 Settings > Accounts & sync.
- 2 Tap ADD ACCOUNT.
- 3 Tap any social networking service you want to use.
- 4 Enter your email address or user name and password that you set up for your social networking account, then tap Log in.

Adding a social networking widget on the Home screen

If you add a social networking widget on your Home screen, the widget will show your status when your phone receives updates from the network.

You can also access the social community directly by tapping the widget.

1 Touch and hold an empty spot on the Home screen.

NOTE

If there is no available space on a particular Home screen panel, you won't be able to add any widget; 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 panel.

- 2 Tap the Widgets tab and scroll to the right until you see Social+.
- 3 Tap **Social**+ to add it to the Home screen panel.

Viewing and updating your status

- 1 Go to the Home screen panel where the **Social+** widget is located. You can see the current status of social applications you set.
- 2 You can select each social application you'd like to view. Tap the arrow (for example, Secial: Se
- 3 Tap the "What's on your mind?" field to update your status with comments or upload pictures.
 - Check all the social applications you'd like to update. It will simultaneously update all.
- 4 After entering comments and attachment (if any), tap **Post**.

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You can use information about friends only in your social network(s) or sync all data to Contacts.

Syncing accounts on your phone

You can sync information from your social networking accounts with your Contacts and other functions on your phone, if applicable.

- From the Home screen, tap the Menu Key
 Settings > Accounts & sync.
- 2 Check that the button at the top right corner of the Accounts & sync screen is to the right. If the button is blue and displays ON synchronization is activated.
- 3 Tap the account you want to sync.
- 4 Check the sync options, such as Sync Contacts. A checkmark indicates that synchronization has been enabled.

Removing accounts on your phone

- From the Home screen, tap the Menu Key
 Settings > Accounts & sync.
- 2 Tap the account(s) you want to delete, then tap the Menu Key > Remove account > OK.



To open the Camera application, tap Camera 🚺 on the Home screen.

Getting to know the viewfinder

 Time catch shot – Allows you to capture the missing moment by taking five sequential pictures at once before the shutter key is touched.

Cheese shutter – Allows you to turn on or off the voice shot. When on, you just say "Cheese" to take a photo.

Swap Lens – Allows you to swap between the rear camera lens and the front camera lens.

Mode Switch – Tap this icon to switch between Camera mode and Video mode.

Capture – Allows you to take a photo.

Gallery – This enables you to access your saved photos and videos within the camera mode. Simply tap and your Gallery will appear on the screen.

Settings – Tap this icon to open the settings menu. See Using the advanced settings on page 40.

Shot mode – Allows you select the shot mode from Normal, HDR, Panorama, and Continuous shot.

Taking a photo

- 1 From the Home screen, tap **Camera**
- 2 Holding the phone horizontally, point the lens towards the subject you want to photograph.
- 3 A focus box will appear in the center of the viewfinder screen. You can also tap anywhere on the screen to focus on that spot.
- 4 When the focus box turns green, the camera has focused on your subject.
- 5 Tap Capture 🝙 lightly.

NOTE

If you set Auto review to off, the camera will take pictures continuously while holding down **Capture** .

Once you've taken the photo

Your captured photo will appear on the screen if Auto review is set to On (refer to Using the advanced settings).

Share Tap to share your photo via Locker, Bluetooth, Email, Facebook, Gmail, Google+, Messaging, Note Pad, Picasa, Social+, Twitter or any other downloaded applications that is supported.

NOTE

Additional charges may apply when MMS messages are sent while roaming.

- Set as Tap to use the image as Contact photo, Homescreen wallpaper, or Lock screen wallpaper.
 - Tap to delete the image.
- Tap to take another photo immediately. Your current photo will be saved.
- Tap to view the Gallery of your saved photos.

Using the advanced settings

In the viewfinder, tap to open the advanced options.

You can change the camera settings by scrolling the list. After selecting the option, tap

the Back Key 📼.

Brightness – This defines and controls the amount of sunlight entering the lens. Slide the brightness indicator along the bar towards "-" for a lower brightness image or towards "+" for a higher brightness image.

Focus –Tap to select the focus mode.

Auto : Allows the camera to focus automatically. (The camera continuously focuses on the objects in the photo) Face tracking : The camera detects and focuses on human faces automatically.

Image size – Tap to set the size (in pixels) of the picture you take. Select a pixel value from the following options: 5M(2560x1920), 3M(2048x1536), W3M(2304x1296), 1M(1280x960), W1M(1536x864).

Scene mode – Select the color and light settings appropriate for the current environment.

Normal: Automatically adjusts according to the environment.

Portrait: Use this mode to capture people.

Landscape : Use this mode to capture natural scenery such as trees, flowers and sky.

Sports: Use this mode to capture sports scenery.

Sunset: Use this mode to capture the sunset scenery.

Night: Use this mode to capture the night scenery. Slow shutter speeds are used to detect night landscape.

Smart shutter: Capture fast-moving images without subject blur indoor.

ISO - Control the camera's sensitivity to light. Choose from **Auto**, **400**, **200**, and **100**.

White balance – The white balance ensures any 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 – Applies artistic effects to pictures. Choose from **None**, **Mono**, **Sepia**, and **Negative**.

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

Geotagging – 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 geotagging, you can see the pictures displayed on a map.

NOTE

This function uses wireless networks. You need to checkmark Google's location service. From the Home screen, tap the

Menu Key > Settings > Location services > Google's location service. Shutter sound – Select one of the four shutter sounds.

Auto review – If you set Auto review on, it will display the picture that was just taken automatically.

Storage - Allows you to choose where to save your pictures. Choose from SD card and Internal storage.

Reset – Restore all camera default settings. Camera help guide - Tap whenever you want to know how a function operates. This will provide you a quick quide.

NOTE

- When you exit the camera, some settings will return to their defaults. Check the camera settings before you take your next photo.
- The settings menu is superimposed over the viewfinder, so when you change elements of the image color or quality, you will see a preview of the image change behind the settings menu.

Viewing your saved photos

You can access your saved photos from within the camera mode. Just tap the Gallerv icon at the bottom of the screen and your Gallery will be displayed.

TIP

Flick left or right to view other photos or videos

Tap the screen to display the following options:

Tap to edit the photo.



Tap to take a new photo.



— Tap to share the photo via various methods such as Bluetooth or Messaging.

— Tap to delete the photo.

Menu Key 🔲 - Tap to access Set image as, Move, Rename, Rotate left, Rotate right, Crop, Slideshow, or Details.

Setting a photo as wallpaper

- Tap the photo you want to set as wallpaper to open it.
- 2 Tap the Menu Key I > Set image as > Home screen wallpaper or Lock screen wallpaper.
- 3 Crop the image as desired and tap OK.



Getting to know the viewfinder

- Brightness Defines and controls the amount of sunlight entering the lens. Slide the brightness indicator along the bar towards "-" for a lower brightness video, or towards "+" for a higher brightness video.
- **Zoom** Zoom in or zoom out. Alternatively you can use the Volume Keys.

Swap Lens - Allows you to swap between the rear camera lens and the front camera lens.



- Mode Switch Tap this icon to switch between Camera mode and Video mode.
- Record Allows you to start recording.
- Gallery This enables you to access your saved photos and videos from within the video camera mode. Simply tap and your Gallery will appear on the screen.

Settings – Tap this icon to open the settings menu. See Using the advanced settings on page 44.

Live Effect – Provides various visual effects when recording a video. Choose from Silly faces and Backgrounds.

Video Camera

Recording a video

- 1 From the Home screen, tap Camera and tap the Camera mode en button to change to Video mode. The Capture icon will change to [a].
- 2 The video camera's viewfinder will appear on the screen
- 3 Holding the phone horizontally, point the lens towards the subject of the video.
- 4 Tap **Record** once to start recording.
- 5 A timer showing the length of the video is displayed at the top left corner of the screen.
- 6 Tap Stop 📕 to stop recording.

After recording a video

A still image representing your video will appear on the screen if Auto review is set to On.



: Tap to play the video.

Share: Tap to share your photo via Locker Bluetooth Email Facebook, Gmail, Google+, Messaging, YouTube, or any other downloaded applications that is supported.

NOTE

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



Tap to delete the video you just recorded. Tap **OK** to confirm it. The viewfinder will reappear.

Tap to record another video right away. Your current video will be saved

Tap to view the Gallerv of your saved videos

Using the advanced settings

Using the viewfinder, tap 💦 to open the advanced options.

Adjust the video camera settings by scrolling the list. After selecting the option, tap the

Back Key 📖

Video size - Tap to set the size (in pixels) of the video you record. Select the video size from Full HD(1920x1080). HD(1280x720), TV(720x480), VGA(640x480), QVGA(320x240), and MMS(QCIF-176x144).

White balance – The white balance ensures any 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 – Choose a color tone to use for your new video. Choose from None, Mono, Sepia, and Negative.

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

Audio recording – Allows you to choose if you want to record a video with or without sound.

Auto review – If you turn Auto review on, it will play back the video you just recorded automatically.

Reset – Restore all video camera default settings.

Video help guide – Tap whenever you want to know how a function operates. This will provide you a quick guide.

Watching your saved videos

- 1 In the viewfinder, tap the **Gallery** icon **a** at the bottom of the screen.
- 2 Your Gallery will appear on the screen.
- 3 Tap a video to play it 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 side of the phone.

Multimedia

You can store multimedia files to a microSD card to have easy access to all your image and video files

Gallery

From the Home screen, tap the Apps Key 🔟 > Gallery 🎑

Video Wiz

You can make your own movie using your images/video and music.

- 1 From the Home Screen, tap the Apps Key 📖 > Video Wiz 🄯
- 2 After seeing the brief introduction on the Steps, tap 🔀



- 3 Tap 💽 to add images and/or video to your movie
- 4 Tap the desired images and/or videos, then tap 💽

- To remove images or videos, tap 🔞 and select Delete selected or Delete all files
- To rearrange them, touch and hold an image/video, drag and drop it to the desired position.
- 5 Tap Add style to select the desired movie style.
 - Scroll through and select the style vou want. As you scroll through the styles, a preview is displayed.
- 6 Tap Add music to set the background music
- 7 Tap 🕑 to play your movie.
- 8 Tap 🖾 to edit the video clip using Overlay Text, Overlay Image, or Trim Video
 - After editing the video, tap O.
- 9 Tap 📕 to save the video.
- 10 Tap 🕜 to view the help information on using this feature.

Music

Your phone has a music player that lets you play all your favorite tracks. To access the music player from the Home screen, tap the **Apps Key ...** and tap **Music Player ...**

How to save music/video files to the phone

Connect your phone to the PC using the USB cable.

You'll receive a notification that the USB is connected and the USB connection type prompt is displayed. Tap **Media sync (MTP)** or **Camera (PTP)** and open the folder you wish to view from your computer.

Save music or video files from the PC to the phone's removable storage.

- You may copy or move files from the PC to the phone's removable storage using a card reader.
- If there is a video file with a subtitle file (.smi file with the same name as the video file), place them in the same folder to display the subtitle automatically when playing the video file.

 When downloading music or video files, copyright must be secured. Please note that a corrupted file or file with a wrong extension may cause damage to the phone.

How to play music/video files on the phone

Playing music/video files

Locate the file you want in the Gallery or Music Player applications and tap it to play it.

Playing a song

- 1 From the Home screen, tap the Apps Key and tap Music Player .
- 2 Tap the Songs tab.
- 3 Tap the song you want to play.
- 4 Tap **11** to pause the song.
- 5 Tap to skip to the next song.
- 6 Tap K to go back to the beginning of the song. Tap K twice to go back to the previous song.

To change the volume while listening to music, press the Volume Keys on the left side of the phone.

Multimedia

To display the options for a song, touch and hold any song in the list. You will see the following options: **Play, Add** to playlist, Set as ringtone, Delete, Share, Search, and Details.

Working with Playlists

You can create playlists to organize your music files into sets of songs, which you can play in the order you set or in a shuffle.

To create a playlist

- 1 When viewing the library tap the **Playlists** tab.
- 2 Tap the Menu Key 💼 > New playlist.
- 3 Enter a name for the playlist, then tap **OK**.
- 4 Select the songs you want to add to the playlist and tap Add. The new playlist is added to the Playlists library.

To add a song to a playlist

Touch and hold a song and tap **Add to playlist**. Then choose the name of the playlist. You can also add the song that is playing in the Playback screen by pressing the **Menu Key** then tapping **Add to** playlist and selecting the desired playlist.

To remove a song from a playlist

- 1 Open a playlist.
- 2 Touch and hold the song you want to remove, then tap **Remove from playlist**

To rename or delete a playlist

- 1 Open the Playlist library.
- 2 Touch and hold the playlist to display the options menu, then tap **Delete** or **Rename**.

NOTE

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

Using SmartShare

SmartShare uses DLNA (Digital Living Network Alliance) technology to share digital content through a wireless network. Both devices must be DLNA certified to support this feature.

To turn SmartShare on and allow sharing contents

- From the Home screen, tap the Apps Key
 SmartShare .
- 2 Touch the Menu Key **Settings**.
- Touch Discoverable to allow your device to be detected by other devices.
 - Touch Always accept request if you would like to automatically accept sharing requests from other devices
 - Touch Receive files if you would like to allow the other devices to upload media files to my phone.
- 4 Under the SHARED CONTENTS section, touch to checkmark the types of content you would like to share. Choose from Photos, Videos, and Music.

5 **SmartShare** is now activated and ready to share contents.

To control your renderer devices

Let your renderer device (e.g., TV) play multimedia contents from your remote content library (e.g., PC)

NOTE

Make sure that the DLNA functionality of your devices is properly configured (e.g., TV and PC).

- From the Home screen, tap the Apps Key
 SmartShare .
- 2 Tap the **To** button **Q** and select the device from the renderer device list.
- 3 Tap the **From** button and select the device of the remote content library.
- 4 You can browse the content library.
- 5 Touch and hold a content thumbnail or tap the Menu Key and tap Play.

To share contents from your phone to your renderer device(e.g. TV)

NOTE

Make sure that your renderer device is properly configured.

Multimedia

- While watching your pictures or videos using the **Gallery** application, tap
 /
 /
- 2 Select the device from renderer lists to play the files.

NOTE

Follow the similar steps to use the **Video Player** to share contents.

- I Need to be connected network
- is Select the device on network
- Currently, the content is being shared through SmartShare.

NOTICE

Check that your device is connected with your home network using Wi-Fi connection to use this application. Some DLNA enabled devices (e.g. TV) support only the DMP feature of DLNA and will not appear in the renderer device list. Your device might not be able to play some contents

To download contents from the remote content library

- From the Home screen, tap the Apps Key
 SmartShare 2.
- 2 Tap the From button and select the device of the remote content library.

- 3 You can browse the content library.
- 4 Touch and hold a content thumbnail and then tap **Download**.
- NOTICE

A few types of contents are not supported.

To upload contents from the remote content library

NOTE

Make sure that the microSD card is correctly mounted and the **Receive files** option in the Settings menu is checked.

- From the Home screen, tap the Apps Key
 SmartShare .
- 2 Tap the From button and select My phone.
- 3 You can browse the content library.
- 4 Touch and hold a content thumbnail and then tap **Upload**.
- 5 Select a device of remote content library to be uploaded.

NOTICE

Some DLNA enabled devices do not support the DMS upload functionality and will not upload files.

A few types of contents are not supported.

Google Applications

About Google applications

Google applications, including mobile versions of Gmail, Google Talk, Google Calendar, and Google Maps, are loaded on your phone.

- To set up a Google account, tap any Google application, enter your user name and password and sign in.
- 2 After signing in, your contacts, email, and calendar in your Google account will automatically synchronize with your phone.

Google Maps™

To open Google Maps and view your location

- 1 From the Home screen, tap the Apps Key and tap Maps
- 2 Tap the **My location** icon **(a)** on the screen.

The map centers on a blue arrow that indicates your location. A blue circle around the arrow indicates that your actual location is within the circle.

To get an address and additional information for a location

- Touch and hold a location on the map. A balloon with the address and a thumbnail from Street View (if available) opens over the location.
- Tap the balloon to access additional options.

To view map, satellite, or traffic layers

Tap the Layers icon so on the map and select a layer option. You can choose from Traffic, Satellite, Terrain, Latitude, and others.

Searching For Locations and Places

You can search for a location and view it on a map. You can also search for places on the map that you're viewing.

To search for a location

1 While viewing a map, tap at the bottom of the screen. You can also touch and hold the Menu Key =.

Google Applications

- 2 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".
- 3 Tap the **Search** icon on the keyboard.

Markers with letter labels indicate search matches on the map.

NOTE

Location information might be inaccurate if GPS and Wi-Fi is turned off. Please make sure that GPS and Wi-Fi is turned on.

Getting Directions

To get directions

- 1 While viewing a map, tap 📀
- 2 Enter a starting point in the top text box and your destination in the bottom text box.

To reverse directions, tap the **Menu Key** and tap **Reverse Start & End**.

- 3 Tap the icon for car, public transit, bicycling, or walking directions.
- 4 Tap GET DIRECTIONS. The directions to your destination appear as a route.

To view turn-by-turn directions in a list

You can view each turn in your route as a list of written directions.

When searching for directions, tap **NAVIGATION** instead of **GET DIRECTIONS**

to view turn-by-turn directions in Navigation View.

To search for locations along your route

You can search for businesses, points of interest, and other features along your route. When you search while navigating, your results include locations along your route, rather than locations that are near your current location.

Touch and hold the Menu Key and search for locations of interest.

The results are displayed as markers along your route; the first result is labeled. You can tap a label for more information about the marker.

When you're finished, tap the Navigation icon to return to Navigation View.

Clear Map

Clear any information, such as routes and search results, from the map.

To clear a map

While viewing a map, tap the **Menu Key** and tap **Clear Map**.

Latitude

Finding Your Friends with Google Latitude™

Google Latitude lets you and your friends view each others' locations on maps and get directions to your friends' locations using Google Latitude. Your location is not shared automatically. It is by invitation only.

You must join Latitude and then invite your friends to view your location or accept invitations from your friends.

To join Latitude

While viewing a map, tap and then Join Latitude.

The first time you join Latitude, you're prompted to accept or reject the Google privacy policy. After you've joined Latitude, the Join Latitude option changes to **Latitude**.

To open Latitude

After you join Latitude, you can open it to find your friends and view their updates.

While viewing a map, tap and then Latitude.

To invite friends to share their locations

After you join Latitude, you can start sharing your location with your friends. Only friends whom you have explicitly invited or accepted can see your location.



- 2 Tap Select from Contacts or Add via email address in the menu that opens.
- 3 Tap Add friends at the bottom of the screen. If your friends already use Latitude, they receive an email request and a notification on Latitude. If they have not yet joined Latitude, they receive an email inviting them to sign in to Latitude with their Google Account.

Places

To find places

Tap the **Places** icon **S** while in Google Maps to find different venues, such as gas stations, coffee, bars, restaurants, etc. Once you select a category, you will see a list of closest matches, including their distance, compass bearing, description and even user reviews. You can customize your own location search categories, and even add the Places icon to your Home screen.

🌗 Tip

While viewing a map, tap the **Menu Key** for the following options: **Clear map**, **Settings** and **Help**.

Play Store[™]

Play Store[™] lets you browse through and download thousands of fun and useful applications and games. You can check other users' comment regarding an application or you can post your own comments. If you install applications and games from Play Store[™], they appear in the phone's menu below the preloaded applications, and you can find them by scrolling down with your finger. You can open downloaded applications from the Play Store by tapping the **Menu Key** > **My Apps**.

NOTE

To purchase a paid app, you'll need to set up a payment method with Google Checkout[™]. You have the option to use a credit card or charge to your carrier bill.

NOTE

When you want to exit a game or application, use the **Home Key** or **Back Key**, which will return you to the Home screen. Or select Menu (or Options) within the game or application and select Exit. (Exit option may vary by game/application). Ending applications that continue to run in the background (after going back to the Home screen) will help conserve battery life and reduce unwanted data usage.

Gmail™

Gmail[™] can be configured when you first set up your phone. Depending on your synchronization settings, Gmail[™] on your phone is automatically synchronized with your Gmail[™] account on the web.The inbox conversations list is your default Gmail[™] view.

Tap S to synchronize your email with your Gmail[™] account on the web. Tap the **Menu Key** ■ for the following additional options:

Label settings, Settings, Help, and Send feedback.

Compose - Allows you to compose a new message.

Search - Allows you to search your account.

Labels *Allows* you to view the account's labels.

Refresh \bigcirc - Allows you to refresh the account to view new activity.

Google Talk™

Google TalkTM is Google's instant messaging program. It lets you communicate with other people who also use Google TalkTM.

The following options are available.

Add friend a - Send invitations to chat.

Search — It searches for contacts to chat with or any chat records that contain the word(s) you entered.

Tap the **Menu Key** for the following options:

Display options - Allows you to change the way your contacts are displayed.

End all chats – Allows you to end all current chats.

Sign out - Sign out from chat.

Settings – Allows you to adjust various settings.

Help - Allows you to view help topics about Talk.

Send feedback - Allows you to send feedback about Talk to Google.

Changing Google Talk Settings

You can configure Google Talk to send you a notification of each message that you receive in a chat and also to sound a ringtone or vibrate the phone.

You can also configure Google Talk to sign you in automatically when you turn on your phone, and you can set whether the mobile indicator is displayed next to your name in other people's Friends lists.

To configure notifications for new Google Talk messages

- 1 From the Friends list, tap the **Menu Key (I)**, then tap **Settings**.
- 2 Tap the desired account. Then tap Invitation notifications to receive a notification in the Status Bar when a new chat message arrives.

Google Applications

- 3 Tap IM notifications and Video chat notifications to receive notifications in the Status Bar when you receive new chats.
- 4 Tap Notification ringtone and Video chat ringtone to choose a ringtone that will ring to notify you of a new chat.
- 5 Tap Vibrate in the Chat notifications and Voice & Video Chat sections to choose the vibration setting when you receive a notification of a new chat.

To show or hide the mobile indicator to friends

- 1 From the Friends list, tap the **Menu Key ()**, then tap **Settings**.
- 2 Tap the desired account. Then checkmark or uncheck **Mobile indicator**. If Mobile indicator is checkmarked, your friends see an outline of an Android[™] next to your name in their Friends list when you are signed into Google Talk on an Android phone.

To set Google Talk to change your status

- 1 From the Friends list, tap the **Menu Key (IDE)**, then tap **Settings**.
- 2 Tap the desired account. Then checkmark or uncheckmark Away when screen off. When Away when screen off is checkmarked, your status will automatically be changed to Away when the screen is turned off.



OuickMemo[™]

The QuickMemo[™] feature allows you to create memos and capture screen shots.

You can use OuickMemo to easily and efficiently create memos during a call, with a saved picture or on the current phone screen.



1 While viewing the screen you want to capture and create a memo on, press and hold both Volume Keys at the same time for one second to access the OuickMemo feature.

OR



While viewing the screen you want to cature and create a memo on, slide the Status Bar down and tap QuickMemo.

2 While using the QuickMemo feature, the following options are available:



- Tap to select whether to use the background screen.
- Tap to undo the most recent action.
- Tap to redo the most recently deleted action
- Tap to select the pen type and color.
- 🜌 Tap to use the eraser to erase the memo that you created.
- Tap to share the memo with others via any of the available applications.
- Fightharpoonup Tap to save the memo you've created.

NOTE

Please use a fingertip while using the QuickMemo feature. Do not use vour fingernail.

3 Tap from the Edit menu and select to save the memo.

View the Saved OuickMemo

From the Home screen, tap -> Gallery and select the QuickMemo album.

Setting the alarm

- 1 From the Home screen, tap the Apps Key and tap Alarm/Clock .
- 2 To add a new alarm, tap the tab (if necessary).
- 3 Tap 💮 and set the alarm time.
- 4 Set any desired options and tap Save.
- 5 Tap the **Menu Key (E)** to delete all alarms or adjust the alarm settings.

Using the calculator

- 1 From the Home screen, tap the Apps Key and tap Calculator
- 2 Tap the number keys to enter numbers.
- 3 For simple calculations, tap the function you want (+, -, x, or ÷), followed by =.
- 4 For more complex calculations, tap the **Menu Key** (a), tap the **Advanced panel**, then choose an option.

Adding an event to your calendar

NOTE

You must create a Google account to use Calendar.

1 From the Home screen, tap the Apps Key and tap Calendar .

- 2 To view an event, tap the date. The events occurring on that date are displayed below the Calendar in Month view. Tap the event to view its details. If you want to add an event, tap → at the top right corner of the Calendar.
- 3 Tap the **Event name** field and enter the event name. Check the date and enter the start and end time you want your event to begin and finish.
- 4 Tap the Location field to enter the location.
- 5 To add a note to your event, tap the Description field and enter the details.
- 6 To repeat the event, set **Repeat**, and set **Reminders**, if necessary.
- 7 Tap Save to save the event in the calendar. A square in the calendar will mark all days that have saved events. An alarm will sound at the event start time if you set it.

Changing your calendar view

- 1 From the Home screen, tap the **Apps Key** and tap **Calendar**.
- 2 At the top of the Calendar, tap **2** and then **Day**, **Week**, **Month**, or **Agenda**.

Polaris Office

With Polaris Office, you can view, create and edit document files on your device. The loaded files can be from microSD cards of your device, or from downloaded email attachments. The Polaris Office application supports the following file formats: txt, doc, docx, xls, xlsx, ppt, pptx, pdf.

Create a New Document

- From the Home screen, tap the Apps Key
 Polaris Office
- Register your name and email address on the User registration page.
- 3 Tap **My files** for folders and documents on your microSD card.
- 4 Tap the Menu Key => New to start a new document.
- 5 Tap a document type.
- 6 Enter contents in the document using the tools at the bottom of the screen and the on-screen keyboard.
- 7 When you're done working on the document, tap the Menu Key
 - > Save (or Save as to enter a new document name) to save.
- 8 Enter the document name and tap Save.
- 9 Tap the Back Key to exit.

View and edit a document on your device

- From the Home screen, tap the Apps Key
 Polaris Office .
- 2 Tap **My files** for folders and documents on your microSD card.
- 3 Move to the folder that contains the file that you want to open if it is not in the root directory.
- 4 Tap the document that you want to view or edit.

NOTE

You can also open an attachment in an email by tapping the attachment in the message.

- 5 The document opens for you to view. If you want to edit it, tap the Menu Key and then tap Edit mode.
- To move between pages or pan through the document, scroll in the corresponding direction.
- To change the zoom level, tap Zoom Q, then tap the zoom level you want or simply pinch-to zoom to achieve the zoom level you want.
- Use the toolbar at the bottom of the screen to edit the document (Word, Excel, or PowerPoint file).

Utilities

- Tap the Menu Key for the following additional menu options : Save, Read mode, View, Insert, Format, Customize toolbar, Brightness, Help, and Settings.
- 6 When you're finished editing, tap the Menu Key => Save. Then tap the Back Key to exit.

Polaris Office toolbar

The Polaris Office application has a toolbar that appears automatically when you create a document.

- 1 To display the toolbar in an existing document, tap the Menu Key and then tap Edit mode.
- 2 Tap a toolbar icon and the corresponding tool options will be displayed in a pop-up balloon for you to tap and use.
- 3 To hide the tool options pop-up balloon, tap the toolbar icon again. Left and right arrows on the toolbar indicate that you can scroll horizontally for more icons. The tools in the toolbar vary depending on the document type.

Manage documents online

- From the Home screen, tap the Apps Key
 Polaris Office
- 2 Tap Add account under the Web section for access to your Box.net online account.
- 3 Enter your user name and password to access your account, then tap Add.
- 4 View and manage your documents on the server as desired.

Voice Dialer

You can search for and dial a contact by speaking, rather than by manually dialing a contact.

- This feature may be unavailable depending on your region.
- Your device can recognize only American English commands.
- Recognized languages may vary depending on your region.

To place a call by speaking

- From the Home screen, tap the Apps Key
 Voice Dialer .
- 2 Say "Call" or "Dial" followed followed by the name of the contact to call.

If Voice Dialer finds a match, it dials the contact's default number.

Voice Recorder

Use the voice recorder to record voice memos or other audio files.

Recording a sound or voice

- 1 From the Home screen, tap the Apps Key and tap Voice Recorder
- 2 Tap with to begin recording.
- 3 Tap to end recording.

NOTE

Tap **to access your voice recordings.** You can listen to the saved recordings.

Sending the voice recording

- 1 Once you have finished recording, you can share the audio clip. Tap <
- 2 Choose from Bluetooth, Email, Gmail, Messaging, Note Pad or any other downloaded applications that is supported.

The Web

Browser

The Browser gives you a fast, full-color world of games, music, news, sports, entertainment, and much more, right on your mobile phone.

NOTE

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

< Browser Bar >

The Browser Bar at the bottom of the screen enhances your mobile browsing experience with contextual recommendations, social applications and browser utilities. We've included some buttons to get you started and have made it easy to add more buttons, move or remove them.

To display the Browser Bar, touch and drag up the bar **manual** at the bottom of the screen.

Using options

Tap the **Menu Key** to view the following options:

Refresh - Alows you to reload the current web page.

Forward - Used in conjunction with the Back Key . This allows you to go back and forth between web pages without opening multiple windows.

New tab - Opens a new tab.

Bookmarks - Allows you to view, add, edit, and delete your bookmarks.

Save to bookmarks - Allows you to bookmark the current web page.

Go to Homepage - Allows you to open the home page.

Share page - Allows you send the web address (URL) of the web page to others.

Find on page - Allows you to search for text on the web page.

Request desktop site - Allows you to change the current mobile page to a desktop page.

Save for offline reading - Allows you to save the current page for offline reading.

Brightness - Allows you to adjust the brightness.

Settings - Opens the Browser settings.

Exit - Allows you to exit the browser.

\rm IP

To return to the previous web page, tap the **Back Key** .



Adding bookmarks

- 1 When viewing the page you want to save, tap the Menu Key > Save to bookmarks.
- 2 Enter the desired information for Label, Address, Account, and Add to (location to save bookmark) and tap OK.

Changing the Browser settings

Open the Browser and tap the $Menu\ Key$ \blacksquare > Settings.



The **Settings** application contains most of the tools for customizing and configuring your phone. All of the settings in the Settings application are described in this section.

To open the Settings application

- From the Home screen, tap the Apps Key
- From the Home screen, tap the **Menu Key**> Settings.

WIRELESS & NETWORKS

This menu allows you to manage Wi-Fi and Bluetooth connections, airplane mode and VPN connections.

Wi-Fi

To use Wi-Fi on your phone, you need access to a wireless access point. Some access points are open and you can simply connect to them. Others are hidden or implement other security features, so you must configure your phone in order to connect to them.

Turn on Wi-Fi

From the Home Screen , open the Notifications panel and tap rot turn Wi-Fi on. A blue colored icon indicates that Wi-Fi is on.

OR

Tap the **Menu Key (**) and tap **Settings** > **Wi-Fi**. Then drag **(**) to the right.

To connect to a Wi-Fi Network

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

- 1 From the Home screen, tap the **Menu Key** and tap **Settings** > **Wi-Fi**.
- 2 Drag model to the right to turn it on and begin scanning for available Wi-Fi networks.
- A list of available Wi-Fi networks will be displayed. Secured networks are indicated by a lock icon.
- 3 Tap a network to connect to it.
- If the network is open, you are prompted to confirm that you want to connect to that network by tapping **Connect**.
- If the network is secured, you are prompted to enter a password or other credentials. (Ask your network administrator for details).

4 The Status Bar at the top of your screen will display an icon that indicates your Wi-Fi status.

\rm IP

If you are not in range of a Wi-Fi network and use a network connection. Additional data charges may apply.

NOTE

Access to the Internet and a wireless router required. As an added convenience, has shipped certain smartphones with Wi-Fi enabled as a default setting. Leaving Wi-Fi enabled when not connected to a Wi-Fi network may affect battery charge. Qualifying data plan required.

NOTE

This device supports WEP, WPA/WPA2-PSK and 802.1x EAP. (Some EAP methods are not supported.) If your Wi-Fi service provider or network administrator sets encryption for network security, enter the key in the pop-up window. If encryption is not set, this pop-up window will not be shown. You can obtain the key from your Wi-Fi service provider or network administrator.

Bluetooth

Using Bluetooth

- From the WIRELESS & NETWORKS section, tap Bluetooth, then drag to the right to turn on the Bluetooth functionality.
- 2 Tap Search for devices at the bottom of the screen.
- 3 Tap the name of the device you wish to pair with, and then tap **OK** to pair and connect.

\rm IP

Please consult documentation included with Bluetooth device for information on pairing mode and passcode (typically $0\ 0\ 0\ -$ four zeroes).

How to send data from your phone via Bluetooth

You can send data via Bluetooth by running a corresponding application, not from Bluetooth menu.

* Sending pictures: Open the Gallery application and tap a picture. Then tap Bluetooth. Check if Bluetooth is turned on and tap Search for devices. Then tap the device you want to send data to from the list.

Settings

- * Sending contacts: Open the Contacts application. Tap the contact you want to share, then tap the Menu Key > Share > Bluetooth. Check if Bluetooth is turned on and tap Search for devices. Then tap 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, tap the Menu Key Share. Tap the contacts you want to send or tap Select all at the top left corner of the screen. Tap Attach > Bluetooth. Check if Bluetooth is turned on and tap Search for devices. Then tap the device you want to send data to from the list.
- * Connecting to FTP (Only the FTP server is supported on this handset): From the Home screen, tap the Menu Key > Settings > Bluetooth. Make sure Bluetooth is turned on. Tap Make phone visible to make the device visible to other Bluetooth devices. Then search for other devices. Find the service you want and connect to the FTP server.

\rm IP

The supported Bluetooth version is **Bluetooth 4.0** and certified by Bluetooth SIG. It is compatible with other Bluetooth SIG certified devices.

- If you want to search for this phone from other devices,from the Home screen, tap the Menu Key > Settings > Bluetooth.
 Make sure Bluetooth is turned on. Tap Make phone visible to make the device visible to other Bluetooth devices. Being visible for 2 minutes is set by default.
- To change the visibility time length, tap the Menu Key => Visibility timeout. Choose from 2 minutes, 5 minutes, 1 hour or Never time out.
- Supported profiles are HFP/HSP, A2DP, AVRCP, OPP, FTP(Server), HID, MAP and PBAP.

Data usage

You can check the current data usage, set to enable/disable mobile data, or set the mobile data limit.

Mobile data - Slide the button to the right to enable mobile data.

Set mobile data limit - Checkmark to set mobile data limit.

Call

You can set Fixed dialing numbers, Voicemail and Other call settings including Call reject, Quick messages, TTY mode, Hearing aids, Call duration, Caller ID, and Sound settings.

Airplane mode

Airplane mode allows you to quickly turn off all wireless connections.

- From the WIRELESS & NETWORKS section, tap More and tap the Airplane mode checkbox to turn it on (a blue checkmark will appear).
- 2 Tap again to turn it off.

OR

- 1 Press and hold the **Power/Lock Key** and tap **Airplane mode**.
- 2 Press and hold the Power/Lock Key and tap Airplane mode again to turn it off.

Wi-Fi Direct

Wi-Fi Direct supports a direct connection between Wi-Fi enabled devices without an access point. Due to the high battery usage of Wi-Fi direct, it is recommended that you plug your phone into a power outlet while using the Wi-Fi Direct feature.

To turn on Wi-Fi Direct:

- 1. Tap the Menu Key **Settings**.
- 2. From the WIRELESS & NETWORKS list, tap More... > Wi-Fi Direct > Wi-Fi Direct > 0K.

Settings

NFC

NFC (Near Field Communication) is a wireless technology that enables data transmission between two objects when they are brought within a few inches of each others. When you enable NFC on your phone, your phone can exchange data with other NFC-enabled devices or read information from smart tags embedded in posters, stickers, and other products.

To turn on NFC:

- 1 Tap the Menu Key 🔳 > Settings.
- 2 From the WIRELESS & NETWORKS list, tap More...> NFC.

Android Beam

When this feature is turned on, you can beam app content to another NFC-capable device by holding the devices close together. For example, you can beam Browser pages, YouTube videos, People contacts, and more. Just bring the devices together (typically back to back) and then touch your screen. The app determines what gets beamed.

VPN

From your phone, you can add, set up, and manage virtual private networks (VPNs) that allow you to connect and access resources inside a secured local network, such as your corporate network.

Prepare Your Device for VPN Connection

Depending on the type of VPN you are using at work, you may be required to enter your login credentials or install security certificates before you can connect to your company's local network. You can get this information from your network administrator. Before you can initiate a VPN connection, you must set the screen lock option (Pattern, PIN, or Password only).

Add a VPN Connection

- 1 Tap the Menu Key 🔳 > Settings.
- 2 From the WIRELESS & NETWORKS list, tap More...> VPN > Add VPN network.
- 3 Enter the VPN network according to the security details you have obtained from your network administrator.
- 4 When finished, tap Save.

Mobile networks

You can set whether to enable or disable data access on your phone.

Data enabled

Select whether to enable or disable data access.

International data roaming

Select whether to enable or disable data access while international roaming.

Access Point Names

You can select the access point name, add a new APN, or reset to default.

Network operators

You can search for all available networks or automatically select preffered network.

DEVICE

Sound

Adjust sound, notification default settings and vibrate mode. You can also manage audible and Haptic feedback.

Sound profile - Allows you to set the sound profile to Sound, Vibrate only, or Silent.

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

Phone ringtone - Select the ringtone for incoming calls.

Notification sound - Select the ringtone for notifications such as new messages receipt or calendar events.

Ringtone with vibration - Checkmark for vibration feedback for calls and notifications.

Quiet time - Slide the button to the right to set times to turn off all sounds except alarm and media.

Dial pad touch tones - Select whether to hear tones when you use the dialpad.

Touch sounds - Select whether to hear sound when you tap buttons, icons, and other onscreen items.



Screen lock sounds - Select whether to hear sound when the screen is locked or unlocked.

Vibrate on touch – Select whether to vibrate when touching buttons and keys.

Display

Brightness – Adjust the brightness of the screen.

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

Screen timeout – Set the time delay before the screen automatically turns off.

Font type - Select the desired font type.

Font size - Select the desired font size.

Front key light - Tap to set the Front key light options.

Turn on front key light: Checkmark this to set the the front keys (Menu Key, Home Key, Back Key) are turned on, when you use the device.

Front key light duration: Select how long the front keys remain backlit while the screen is turned on.

Motion sensor calibration: Improve the accuracy of the tilt and speed of the sensor.

Home screen

Animation - Set whether you want to enjoy animated transitions for all supported effects (including when navigating from screen to screen) or to use the phone without any optional animation effects (this setting does not control animation in all applications).

Screen swipe effect - Allows you to select the type of effect to display when you swipe from one Home screen canvas to the next.

Wallpaper - Allows you to set the wallpaper. Scroll wallpaper - Checkmark to allow the wallpaper to scroll with the screen instead of having it as a static image.

Scroll screens circularly - Checkmark to show the first screen after last screen when scrolling.

Home backup & restore - Select to backup and restore app/widget configurations and the theme.

Lock screen

Select screen lock - Select the desired option to secure your phone from the below.

None - No lock screen.

Swipe- Swipe any part of the screen to unlock the screen.

Face Unlock- Unlocks the screen through facial recognition. Follow the prompts. You are asked to set a Pattern and/or PIN as a backup.

Pattern - Opens a set of screens that guide you through drawing a screen unlock pattern. It's recommended that you enter backup PIN as well in case that you might lost the pattern. Then, you can set vibrate on touch or whether to make the pattern visible.

PIN - Enter a numeric PIN to unlock screen.

Password - Enter a password to unlock screen.

Wallpaper - Select the wallpaper to display for your lock screen.

Clocks & shortcuts - Customize clocks and shortcuts on the lock screen.

Owner info - Display the owner info on the lock screen.

Lock timer - Allows you to set the amount of time before the screen automatically locks after the screen has timed-out.

Power button instantly locks - Checkmark to instantly lock the screen when the Power/ Lock Key is pressed.

Gestures

Move home screen items - Press and hold an item and tilt the device to move to other home screens.

Tilt sensitivity - Test and adjust sensitivity of tilt sensor for the Home screen and applications.

Silence incoming calls - Flip the device to silence incoming calls.

Snooze or stop alarm - Flip the device to snooze or stop the alarm.

Pause video - Flip the device to pause the video.

Help - Touch to get information on using the Gesture function of your device.

Storage

INTERNAL STORAGE

You can monitor the used and available space on the internal storage.

Total space - Displays the total amount of space in the phone's internal storage. It's listed in amounts and also on a colored bar graph with a color-coordinated list of the applications as well as the amount of space they use. Remaining memory space is black-colored.

SD CARD

You can monitor the used and available space on your microSD card.

Total space - Lists the total amount of space on any microSD card installed in your phone. It is divided by the type of files stored.

Unmount SD card - Tap this to unmount the microSD card from your phone so that you can format the card or remove safely.

Erase SD card - Permanently erases everything on the microSD card and prepares it for use with your phone. You must unmount the microSD card before formatting it.

Power saver

Drag **Drag** at the top of the screen to the right to turn this feature on. Drag it to the left to turn it off.

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

Power saver Tips - Touch to access some tips for Power saver.

POWER SAVING ITEMS

Select to turn off features when battery is low.

Auto-sync - Turn off Auto-sync.

Wi-Fi - Turn off Wi-Fi if data is not in use.

Bluetooth - Turn off Bluetooth if not connected.

Vibrate on touch - Turn off touch feedback.

Brightness - Adjust the brightness.

Screen timeout - Adjust screen timeout of screen.

Front key light - Adjust Front key light timeout.

BATTERY INFORMATION

Battery percentage - Display battery percentage on the Status Bar.

Battery use - View which components and application use the most battery.

Apps

You use the Applications settings menu to view details about the applications installed on your phone, manage their data, force them to stop, and to set whether you want to permit installation of applications that you obtain from websites and email. Tap the **Downloaded**, **Running or All** tabs to view information about your installed apps.

PERSONAL

Accounts & sync

Use the Accounts & sync settings menu to add, remove, and manage your Google[™] and other supported accounts. You also use these settings to control how and whether all applications send, receive, and sync data on their own schedules and whether all applications can synchronize user data automatically. Gmail[™], Calendar, and other applications may also have their own settings to control how they synchronize data; see the sections on these applications for details. Slide minute the state adding account or sync. Tap **ADD ACCOUNT** to add new account.

Location services

Use the Location services menu to set your preferences for using and sharing your location when you search for information and use location-based applications, such as Maps.

Google's location services- Checkmark to use information from Wi-Fi and mobile networks to determine your approximate location, used while searching in Google Maps and other applications. When you checkmark this option, you're asked whether you consent to sharing your location anonymously with Google's location service.

GPS satellites- Checkmark to enable your phone's standalone global positioning system (GPS) satellite receiver to pinpoint your location to within an accuracy as close as several meters ("street level"). Actual GPS accuracy depends on a clear view of the sky and other factors.

Location & Google search- Let Google use your location to improve search results and other services.

Security

Use the Security settings to configure how to help secure your phone and its data.

ENCRYPTION

Encrypt device - Opens a screen that encrypts data on the device for security. You will be required to enter a PIN or password to decrypt your phone each time you power it on.

SIM CARD LOCK

Set up SIM card lock - Opens a screen to set if you want to require a PIN to use or, if set, allows you to change the PIN.

PASSWORDS

Password typing visible - Checkmark to briefly show each character of passwords as you enter them so that you can see what you enter.

DEVICE ADMINISTRATION

Device administrators - Add or remove device administrators.

Unknown sources - Allow installation of non-Play Store applications.

CREDENTIAL STORAGE

Trusted credentials - Checkmark to allow applications to access your phone's encrypted store of secure certificates and related passwords and other credentials. You use credential storage to establish some kinds of VPN and Wi-Fi connections. If you have not set a password for the secure credential storage, this setting is dimmed.

Install from storage - Touch to install a secure certificate from a microSD card.

Clear credentials - Deletes all secure certificates and related credentials and erases the secure storage's own password, after prompting you to confirm that you want to do this.

Language & input

Select the language for the text on your phone and for configuring the on-screen keyboard, including words that you've added to its dictionary.

Language - Choose a language to use on your phone.

Spelling correction - Allows spelling correction when using the on-screen keyboard.

Personal dictionary - Allows you to view, edit, and add words to your personal dictionary.

KEYBOARD & INPUT METHODS

Default - Shows the default keyboard type. Checkmark the keyboard you want to use from Android keyboard, Google voice typing, LG Keyboard. And tap to configure each keyboard's settings.

SPEECH

Voice Search - Touch to configure the Voice Search settings.

Text-to speech output - Touch to set the preferred engine or general settings for text-to-speech output.

MOUSE/TRACKPAD

Pointer speed - Adjust the pointer speed.

Backup & reset

BACKUP & RESTORE

Back up my data - Back up app data, Wi-Fi passwords, and other settings to Google servers.

Back up account - Displays the accounts that are currently being backed up.

Automatic restore - When reinstalling an app, restore backed up settings and data.

PERSONAL DATA

Factory data reset - Erases all data on the phone.

SYSTEM

Date & time

Set your preferences for how the date and time is displayed.

Accessibility

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

NOTE

Requires additional plug-ins to become selectable.

Connectivity

USB CONNECTION

USB connection type - Opens a dialog box to choose the default connection mode when connecting your phone to a PC via USB. Choose from Charge only, Media sync (MTP), USB tethering, PC software, or Camera (PTP).

Media sync(MTP)

Allows the phone to be used as MTP device when a microSD card is present in the phone. It allows transfer of protected content from the phone to the PC and vice versa.

To synchronize your phone with your computer using the USB

- 1. Connect your phone to your computer with a USB cable.
- 2. Autorun will check whether MTP driver is installed or not in your PC.
- If the driver is not installed, the MTP driver will be installed automatically and your PC will be rebooted. After rebooting, it is possible to transfer any files between the phone and the PC.

Settings

NOTE

For Windows® XP, MTP driver is not installed by default. So Autorun will install the MTP driver automatically after checking existence of the driver. If Windows Media Player(WMP) over version 10.x is installed on the PC, MTP driver may be installed. For Windows® 7 except for N edition, the driver is installed.

USB Autorun

USB Autorun is a feature that allows your phone to connect to a PC using a USB Cable and set it up on that PC without a physical CD-ROM. If the phone is connected to a PC using USB cable, the phone will act as a physical CD-ROM. Then LG Autorun will be executed.

LG Autorun will

- Automatically install the LG USB Modem driver at USB Tethering and PC Software modes.
- Automatically install the MTP driver at Media sync mode.

NOTE

USB Autorun only works with Windows® XP, Windows® Vista, and Windows® 7operating systems.

 Log on to the PC as Administrator. Non-Administrator accounts have insufficientprivilege to install the USB Modem driver and don't run the Autorun feature.

- Do not unplug the USB Cable during Autorun.
- If Autorun doesn't function properly in 30 seconds as soon as connecting to a PC, USB mode is changed to Media sync(MTP) mode by default.
- Please refer to the supporting site for Autorun. (http://support.microsoft.com/kb/967715/en)

Ask on connection - Checkmark to have the phone ask you to choose which USB connection mode it should connect with to a PC.

Help - Touch to get information on the different types of USB connections.

LG On-Screen Phone 2.1

LG SOFTWARE

On-Screen Phone (OSP) allows you to view your mobile phone screen from a PC via a USB, or Wi-Fi connection. You can also control your mobile phone from your PC, using the mouse or keyboard.

On-Screen Phone 2.1 icons

- Launches LG Home Panorama or changes the On-Screen Phone preferences.
- Connects your mobile phone to your PC, or disconnects it.
- Minimizes the On-Screen Phone window.
- Maximizes the On-Screen Phone window.
- × Exits the On-Screen Phone program.

On-Screen Phone 2.1 features

- Real-time transfer and control: displays and controls your mobile phone screen when connected to your PC.
- Mouse control: allows you to control your mobile phone by using the mouse to click and drag on your PC screen.
- Text input with keyboard: allows you to compose a text message or note using your computer keyboard.

- File transfer (mobile phone to PC): sends a file from your mobile phone (e.g. Gallery, Video Player, Music and Polaris Office) to your PC. Simply right-click on the file and drag it to send it to your PC.
- File transfer (PC to mobile phone): sends files from your PC to your mobile phone.
 Just select the files you wish to transfer and drag and drop them into the On-Screen Phone window. The sent files are stored in the OSP folder.
- LG Home Panorama: shows all of the work spaces of LG Home. You can easily organize icons or widgets and run an application by double-clicking the shortcut.

NOTE: Please make sure that LG Home is the default launcher. Some widgets may not work properly on the LG Home Panorama.

 Real-time event notifications: prompts a pop-up to inform you of any incoming calls or text messages, as well as alarm and event notifications.

How to install On-Screen Phone on your PC

Visit **LG.com** (http://www.lg.com/us). Locate the search box in the upper right corner and enter the model number. From the **SUPPORT** list, select your model. Scroll down and select the **OSP** tab and click on **DOWNLOAD**. When prompted, select **Run** to install On-Screen Phone on your PC.

How to connect your mobile phone to your PC

On-Screen Phone 2.1 provides USB and Wi-Fi connection. Please follow the instruction on Connection Wizard of the OSP program.

NOTE

If you want to connect to Wi-Fi, please make sure that the **On-Screen Phone** check box in **Settings** > **Connectivity** > **On-Screen Phone** is selected.

Please note that the battery may run out more quickly due to the current consumption if On-Screen Phone is connected via Wi-Fi. Access to the Internet using Wi-Fi networks may not work well depending on the network's traffic. When you enlarge the On-Screen Phone window, the display on the screen might become slow.

To check the phone-to-PC connection

Once the devices have been connected, drag down the Status Bar at the top of the Home screen to check the On-Screen Phone connection status.

To disconnect your phone from your PC

Click Click Click Area in the top left of the On-Screen Phone window and select **Disconnect**. Alternatively, drag down the Status Bar at the top of the Home screen and select **OK**.

Developer options

USB debugging - Checkmark to set Debug mode when USB is connected.

Development device ID - Displays the development device ID.

LG On-Screen Phone 2.1

Stay awake - If activated, the screen will never sleep while charging.

Allow mock locations - Checkmark to allow mock locations.

Desktop backup password - Allows you to set a desktop backup password.

USER INTERFACE

Enable strict mode - Checkmark to flash the screen when apps operate for a long time on the main thread.

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

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

Show screen updates - Checkmark to flash areas of the screen when they update.

Show CPU usage - Checkmark to display a screen overlay showing current CPU usage.

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

Window animation scale - Select to set the window animation scale.

Transition animation scale - Select to set transition animation scale.

APPS

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

Background process limit - Set the preferered Background process limit.

Show all ANRs Checkmark to show App Not Responding dialog for background apps.

About phone

View legal information, check phone status and software versions, and perform the software update.

Software Update

Phone Software Update

This feature allows you to update the firmware of your phone to the latest version conveniently from the internet without the need to visit a service center.

For more information on how to use this function, please visit:

http://update.lgmobile.com or

http://www.lg.com/common/index.jsp.

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

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

This feature allows you to update the firmware of your phone to the newer version conveniently via UTA without connecting the USB data cable. This feature is only available if and when LG makes the newer version of the firmware available for your device. First, you can check the software version on your mobile phone: From the Home screen, tap the **Menu Key Settings** > **About phone**. You can check the software version at the bottom of the list.

To perform the phone software update, from the Home screen, tap the Menu Key => > Settings > About phone > Software update > Update now.

NOTE

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

Trademarks

Trademarks

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DivX Mobile

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

DivX Certified® to play DivX® video

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Notice: Open Source Software

To obtain the corresponding source code under GPL, LGPL, MPL and other open source licences, please visit http://opensource.lge. com/All referred licence terms, disclaimers and notices are available for download with the source code.

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

DTS Channel

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Dolby Mobile





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

- **Q** How do I view the list of outgoing calls, incoming calls and missed calls?
- A Tap the Phone Key sand tap the Call logs tab.
- **0** Why is the connection inconsistent or not audible in certain areas?
- A When the frequency environment is unstable in a certain area, connection may be inconsistent and inaudible. Relocate to another area and try again.
- Why is the connection inconsistent or abruptly disconnects even when established?
- A When frequency is unstable or weak, or if there are too many users, a connection may be cut off even after it was established. Please try again later or attempt again after relocating to other areas.
- 0 Why won't the LCD turn on?
- A Remove the battery, then replace it. Then turn on the power. If there is no change, fully charge the battery and try again.

- 0 Why does the phone heat up?
- A The phone may get hot when there is a very long call duration, when games are played or even when surfing the Internet for a long time. This has no effect upon the life of the product or performance.
- Why does the battery run out so quickly during normal use?
- A This may be due to the user environment, a large number of calls or a weak signal.
- **0** Why is no number dialed when an Address Book entry is recalled?
- A Check that the number has been stored correctly by using the Address book Search feature. Re-store them, if necessary.
- O The screen got frozen. How can I solve this problem?
- Press and hold the Power/Lock Key for 10 seconds to turn it off. Then press and hold the Power/Lock Key gagain for 3 seconds to reboot the phone.

Accessories

There are a variety of accessories available for your mobile phone, some of which may be sold separately. You can select these options according to your personal communication requirements. Visit your local store or www.att.com/wirelessaccessories for specific offerings.

NOTE

- Always use genuine LG accessories. Failure to do this may invalidate your warranty.
- Accessories may be different in different regions; please check with our regional service company or agent for further enquiries.

For Your Safety

Important Information

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

Before You Start

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

Safety Instructions

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

Always store your phone away from heat.

Never store your phone in settings that may expose it to temperatures less than 32°F or greater than 104°F, such as outside during

extreme weather conditions or in your car on a hot day. Exposure to excessive cold or heat will result in malfunction, damage and/or catastrophic failure.

Be careful when using your phone near other electronic devices. RF emissions from your mobile phone may affect nearby in adequately shielded electronic equipment. You should consult with manufacturers of any personal medical devices such as pacemakers and hearing aides to determine if they are susceptible to interference from your mobile phone. Turn off your phone in a medical facility or at a gas station. Never place your phone in a microwave oven as this will cause the battery to explode.

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

Safety Information

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

Do not disassemble this unit. Take it to a qualified service technician when repair work is required.

For Your Safety

- Keep away from electrical appliances such as TVs, radios, and personal computers.
- The unit should be kept away from heat sources such as radiators or cookers.
- Do not drop.
- Do not subject this unit to mechanical vibration or shock.
- The coating of the phone may be damaged if covered with wrap or vinyl wrapper.
- Use dry cloth to clean the exterior of the unit. (Do not use solvent such as benzene, thinner or alcohol.)
- Do not subject this unit to excessive smoke or dust.
- Do not keep the phone next to credit cards or transport tickets; it can affect the information on the magnetic strips.
- Do not tap the screen with a sharp object; otherwise, it may damage the phone.
- Do not expose the phone to liquid or moisture.
- Use the accessories like an earphone cautiously. Do not tap the antenna unnecessarily.

microSD card information and care

- The microSD card cannot be used for recording copyright- protected data.
- Keep the microSD card out of the small children's reach.
- Do not leave the microSD card in extremely hot location.
- Do not disassemble or modify the microSD card.

FCC RF Exposure Information

WARNING! Read this information before operating the phone.

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

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

CAUTION

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

Body-worn Operation

This device was tested for typical body-worn operations with the back of the phone kept 0.39 inches (1cm) between the user's body and the back of the phone. To comply with FCC RF exposure requirements, a minimum separation distance of 0.39 inches (1cm) must be maintained between the user's body and the back of the phone. Third-party belt-clips. holsters, and similar accessories containing metallic components should not be used. Body-worn accessories that cannot maintain 0.39 inches (1cm) separation distance between the user's body and the back of the phone, and have not been tested for typical bodyworn operations may not comply with FCC RF exposure limits and should be avoided.

Part 15.19 statement

This device complies with part15 of FCC rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference.

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

Part 15.105 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.

For Your Safety

If this equipment does cause harmful interference or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help.

Part 15. 21 statement

Change or Modificatons that are not expressly approved by the manufacturer could vold the user's authority to operate the equipment.

Cautions for Battery

- 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, the host device's user manual shall include a statement that the phone shall only be connected to products that bear the USB-IF logo or have completed the USB-IF compliance program.

Adapter (Charger) Cautions

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

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

Avoid damage to your hearing

Damage to your hearing can occur if you are exposed to loud sound for long periods of time. We therefore recommend that you do not turn on or off the handset close to your ear. We also recommend that music and call volumes are set to a reasonable level. If you are listening to music while out and about, please ensure that the volume is at a reasonable level so that you are aware of your surroundings. This is particularly imperative when attempting to cross the street.

TIA Safety Information

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

Exposure to Radio Frequency Signal

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

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

ANSI C95.1 (1992) * NCRP Report 86 (1986) ICNIRP (1996) Those standards were based on comprehensive and periodic evaluations of the relevant scientific literature. For example, over 120 scientists, engineers, and physicians from universities, government health agencies, and industry reviewed the available body of research to develop the ANSI Standard (C95.1).

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

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

Antenna Care

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

Tips on Efficient Operation

For your phone to operate most efficiently:

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

Driving

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

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

Electronic Devices

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

Pacemakers

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

- Should ALWAYS keep the phone more than six inches from their pacemaker when the phone is turned ON;
- Should not carry the phone in a breast pocket.
- Should use the ear opposite the pacemaker to minimize the potential for interference.
- If you have any reason to suspect that interference is taking place, turn your phone OFF immediately.

Hearing Aids

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

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.

Other Medical Devices

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

Health Care Facilities

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

Vehicles

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles. Check with the manufacturer or its representative regarding your vehicle. You should also consult the manufacturer of any equipment that has been added to your vehicle.

Posted Facilities

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

Aircraft

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

Blasting Areas

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

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.

Charger and Adapter Safety

The charger and adapter are intended for indoor use only.

Battery Information and Care

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

- Keep the battery's metal contacts clean.
- Replace the battery when it no longer provides acceptable performance. The battery can be recharged several hundred times before replacement.
- Recharge the battery after long periods of non-use to maximize battery life.
- Battery life will vary due to usage patterns and environmental conditions.
- Use of extended backlighting, MEdia Net Browsing, and data connectivity kits affect battery life and talk/standby times.
- The self-protection function of the battery cuts the power of the phone when its operation is in an abnormal state. In this case, remove the battery from the phone, reinstall it, and turn the phone on.
- Actual battery life will depend on network configuration, product settings, usage patterns, battery and environmental conditions.
- Always unplug the charger from the wall socket after the phone is fully charged to save unnecessary power consumption of the charger.

Explosion, Shock, and Fire Hazards

- Do not put your phone in a place subject to excessive dust and keep the minimum required distance between the power cord and heat sources.
- Unplug the power cord prior to cleaning your phone, and clean the power plug pin when it is dirty.
- When using the power plug, ensure that it is firmly connected. If it is not, it may cause excessive heat or fire.
- If you put your phone in a pocket or bag without covering the receptacle of the phone (power plug pin), metallic articles (such as a coin, paperclip or pen) may short-circuit the phone. Always cover the receptacle when not in use.
- Do not short-circuit the battery. Metallic articles such as a coin, paperclip or pen in your pocket or bag may short-circuit the + and – terminals of the battery (metal strips on the battery) upon moving. Short-circuit of the terminal may damage the battery and cause an explosion.

General Notice

- Using a damaged battery or placing a battery in your mouth may cause serious injury.
- Do not place items containing magnetic components such as a credit card, phone card, bank book or subway ticket near your phone. The magnetism of the phone may damage the data stored in the magnetic strip.
- Talking on your phone for a long period of time may reduce call quality due to heat generated during use.
- When the phone is not used for a long period time, store it in a safe place with the power cord unplugged.
- Using the phone in proximity to receiving equipment (i.e., TV or radio) may cause interference to the phone.
- Do not use the phone if the antenna is damaged. If a damaged antenna contacts skin, it may cause a slight burn. Please contact an LG Authorized Service Center to replace the damaged antenna.

- Do not immerse your phone in water. If this happens, turn it off immediately and remove the battery. If the phone does not work, take it to an LG Authorized Service Center.
- Do not paint your phone.
- The data saved in your phone might be deleted due to careless use, repair of the phone, or upgrade of the software. Please backup your important phone numbers. (Ring tones, text messages, voice messages, pictures, and videos could also be deleted.) The manufacturer is not liable for damage due to the loss of data.
- When you use the phone in public places, set the ring tone to vibration so as not to disturb others.
- Do not turn your phone on or off when putting it in your ear.
- Your phone is an electronic device that generates heat during normal operation. Extremely prolonged, direct skin contact in the absence of adequate ventilation may result in discomfort or minor burns. Therefore, use care when handling your phone during or immediately after operation.

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: **204 Safety**

 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 noisecancelling 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:

Safety 205

American Academy of Audiology 11730 Plaza American Drive, Suite 300

Reston, VA 20190

Voice: (800) 222-2336

Email: info@audiology.org

Internet: 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

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 Center for Devices and Radiological Health Consumer Update on Mobile Phones.

1.Do wireless phones pose a health hazard?

The available scientific evidence does not show that any health problems are associated with using wireless phones. There is no proof, however, that wireless phones are absolutely safe. Wireless phones emit low levels of radiofrequency energy (RF) in the microwave range while being used. They also emit very low levels of RF when in the Home screen. Whereas high levels of RF can produce health effects (by heating tissue), exposure to low level RF that does not produce heating effects causes no known adverse health effects. Many studies of low level RF exposures have not found any biological effects. Some studies have suggested that some biological effects may occur, but such findings have not been confirmed by additional research. In some cases, other researchers have had difficulty in

reproducing those studies, or in determining the reasons for inconsistent results.

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

Under the law, the FDA does not review the safety of radiation-emitting consumer products such as wireless phones before they can be sold, as it does with new drugs or medical devices. However, the agency has authority to take action if wireless phones are shown to emit radiofrequency energy (RF) at a level that is hazardous to the user. In such a case, the FDA could require the manufacturers of wireless phones to notify users of the health hazard and to repair, replace, or recall the phones so that the hazard no longer exists.

Although the existing scientific data do not justify FDA regulatory actions, the FDA has urged the wireless phone industry to take a number of steps, including the following:

- Support needed research into possible biological effects of RF of the type emitted by wireless phones;
- Design wireless phones in a way that minimizes any RF exposure to the user that is not necessary for device function; and

 Cooperate in providing users of wireless phones with the best possible information on possible effects of wireless phone use on human health.

The FDA belongs to an interagency working group of the federal agencies that have responsibility for different aspects of RF safety to ensure coordinated efforts at the federal level. The following agencies belong to this working group:

- National Institute for Occupational Safety and Health
- Environmental Protection Agency
- Occupational Safety and Health Administration
- National Telecommunications and Information Administration

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

The FDA shares regulatory responsibilities for wireless phones with the Federal Communications Commission (FCC). All phones that are sold in the United States must comply with FCC safety guidelines that limit RF exposure. The FCC relies on the FDA and other health agencies for safety questions about wireless phones. The FCC also regulates the base stations that the wireless phone networks rely upon. While these base stations operate at higher power than do the wireless phones themselves, the RF exposures that people get from these base stations are typically thousands of times lower than those they can get from wireless phones. Base stations are thus not the subject of the safety questions discussed in this document.

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

The term 'wireless phone' refers here to handheld wireless phones with built-in antennas, often called 'cell', 'mobile', or 'PCS' phones. These types of wireless phones can expose the user to measurable radiofrequency energy (RF) because of the short distance between the phone and the user's head. These RF exposures are limited by FCC safety guidelines that were developed with the advice of the FDA and other federal health and safety agencies. When the phone is located at greater distances from the user, the exposure to RF is drastically lower because a person's RF exposure decreases rapidly with increasing distance from the source. The so-called 'cordless phones,' which have a base unit connected to the telephone wiring in a house, typically operate at far lower power levels, and thus produce RF exposures far below the FCC safety limits.

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

The research done thus far has produced conflicting results, and many studies have suffered from flaws in their research methods. Animal experiments investigating the effects of radiofrequency energy (RF) exposures characteristic of wireless phones have vielded 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 predisposed to develop cancer in the absence of RF exposure. Other studies exposed the

animals to BF for up to 22 hours per day. These conditions are not similar to the conditions under which people use wireless phones, so we don't know with certainty what the results of such studies mean for human health. Three large epidemiology studies have been published since December 2000 Between them the studies investigated any possible association between the use of wireless phones and primary brain cancer, glioma, meningioma, or acoustic neuroma, tumors of the brain or salivary gland, leukemia, or other cancers. None of the studies demonstrated the existence of any harmful health effects from wireless phone RF exposures. However, none of the studies can answer questions about long-term exposures, since the average period of phone use in these studies was around three years.

5.What research is needed to decide whether RF exposure from wireless phones poses a health risk?

A combination of laboratory studies and epidemiological studies of people actually using wireless phones would provide some of the data that are needed. Lifetime animal exposure studies could be completed in a few years. However, very large numbers of animals would be needed to provide reliable proof of a cancer promoting effect if one exists. Epidemiological studies can provide data that is directly applicable to human populations, but 10 or more years follow-up may be needed to provide answers about some health effects such as cancer This is because the interval between the time of exposure to a cancer-causing agent and the time tumors develop - if they do- may be many, many years. The interpretation of epidemiological studies is hampered by difficulties in measuring actual RF exposure during day-to-day use of wireless phones. Many factors affect this measurement, such as the angle at which the phone is held, or which model of phone is used.

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

The FDA is working with the U.S. National Toxicology Program and with groups of investigators around the world to ensure that high priority animal studies are conducted to address important questions about the effects of exposure to radiofrequency energy (RF). The FDA has been a leading participant in the World Health Organization International Electromagnetic Fields (EMF) Project since its inception in 1996. An influential result of this work has been the development of a detailed agenda of research needs that has driven the establishment of new research programs around the world. The project has also helped develop a series of public information documents on FMF 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 CBADA will also include a broad assessment of additional research needs in the context of the latest research developments around the world

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

All phones sold in the United States must comply with Federal Communications Commission (FCC) guidelines that limit radio frequency energy (RF) exposures. The FCC established these guidelines in consultation with the FDA and the other federal health and safety agencies. The FCC limit for RF exposure from wireless telephones is set at a Specific Absorption Rate (SAR) of 1.6 watts per kilogram (1.6 W/kg). The FCC limit is consistent with the safety standards developed by the Institute of Electrical and Electronic Engineering (IEEE) and the National Council on Badiation Protection and Measurement. The exposure limit takes into consideration the body's ability to remove heat from the tissues that absorb energy from the wireless phone and is set well below levels known to have effects. Manufacturers of wireless phones must report the RF exposure level for each model of phone to the FCC. The FCC website (http://www.fcc.gov/oet/rfsafety) gives directions for locating the FCC identification number on your phone so you can find your

phone's RF exposure level in the online listing.

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

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

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

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

do not demonstrate that wireless phones are harmful. But if you are concerned about the RF exposure from these products, you can use measures like those described above to reduce your RF exposure from wireless phone use.

10. What about children using wireless phones?

The scientific evidence does not show a danger to users of wireless phones. including children and teenagers. If you want to take steps to lower exposure to radiofrequency energy (RF), the measures described above would apply to children and teenagers using wireless phones. Reducing the time of wireless phone use and increasing the distance between the user and the BF 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 aovernment in the United Kinadom distributed leaflets containing such a recommendation in December 2000. They noted that no evidence exists that using a wireless phone causes brain tumors or

other ill effects. Their recommendation to limit wireless phone use by children was strictly precautionary; it was not based on scientific evidence that any health hazard exists.

11. What about wireless phone interference with medical equipment?

Radio frequency energy (RF) from wireless phones can interact with some electronic devices. For this reason, the FDA helped develop a detailed test method to measure electromagnetic interference (EMI) of implanted cardiac pacemakers and defibrillators from wireless telephones. This test method is now part of a standard sponsored by the Association for the Advancement of Medical instrumentation (AAMI). The final draft, a joint effort by the FDA medical device manufacturers and many other groups, was completed in late 2000 This standard will allow manufacturers to ensure that cardiac pacemakers and defibrillators are safe from wireless phone EMI. The FDA has tested hearing aids for interference from handheld wireless phones and helped develop a voluntary standard

sponsored by the Institute of Electrical and Electronic Engineers (IEEE). This standard specifies test methods and performance requirements for hearing aids and wireless phones so that no interference occurs when a person uses a 'compatible' phone and a 'compatible' hearing aid at the same time. This standard was approved by the IEEE in 2000. The FDA continues to monitor the use of wireless phones for possible interactions with other medical devices. Should harmful interference be found to occur, the FDA will conduct testing to assess the interference and work to resolve the problem.

12. Where can I find additional information?

For additional information, please refer to the following resources:

FDA web page on wireless phones (http://www.fda.gov, click on "C" in the index and "Cell Phones")

Federal Communications Commission (FCC) RF Safety Program

(http://www.fcc.gov/oet/rfsafety)

International Commission on Non-Ionizing Radiation Protection

(http://www.icnirp.de) World Health Organization (WHO) International EMF Project (http://www.who.int/emf) National Radiological Protection Board (UK) (http://www.nrpb.org.uk/radiation/)

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:

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



- 2. When available, use a hands-free device. A number of hands-free wireless phone accessories are readily available today. Whether you choose an installed mounted device for your wireless phone or a speaker phone accessory, take advantage of these devices if available to you.
- 3. Position your wireless phone within easy reach. Make sure you place your wireless phone within easy reach and where you can reach it without removing your eyes from the road. If you get an incoming call at an inconvenient time, if possible, let your voicemail answer it for you.
- 4. Suspend conversations during hazardous driving conditions or situations. Let the person you are speaking with know you are driving; if necessary, suspend the call in heavy traffic or hazardous weather conditions. Rain, sleet, snow and ice can be hazardous, but so is heavy traffic. As a driver, your first responsibility is to pay attention to the road.
- 5. Do not take notes or look up phone numbers while driving. If you are reading an Address Book or business card, or writing a "to-do" list while driving a car, you are not watching where you are going. It is common sense.

Don't get caught in a dangerous situation because you are reading or writing and not paying attention to the road or nearby vehicles.

- 6. Dial sensibly and assess the traffic; if possible, place calls when you are not moving or before pulling into traffic. Try to plan your calls before you begin your trip or attempt to coincide your calls with times you may be stopped at a stop sign, red light or otherwise stationary. But if you need to dial while driving, follow this simple tip— dial only a few numbers, check the road and your mirrors, then continue.
- 7. Do not engage in stressful or emotional conversations that may be distracting. Stressful or emotional conversations and driving do not mix; they are distracting and even dangerous when you are behind the wheel of a car. Make people you are talking with aware you are driving and if necessary, suspend conversations which have the potential to divert your attention from the road.
- 8. Use your wireless phone to call for help. Your wireless phone is one of the greatest tools you can own to protect yourself and your family in dangerous situations with your phone at your side, help is only three numbers away.

Dial 911 or other local emergency number in the case of fire, traffic accident, road hazard or medical emergency. Remember, it is a free call on your wireless phone!

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

For more information, please call to 888-901-SAFE, or visit our website http://www.ctia.org.

Consumer Information on SAR (Specific Absorption Rate)

This model phone meets the government's requirements for exposure to radio waves. Your wireless phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission (FCC) of the U.S. Government. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons. regardless of age and health.

The exposure standard for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6 W/kg.* Tests for SAR are conducted using standard operating positions specified by the FCC with the phone transmitting at its highest certified power level in all tested frequency bands.



Although SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. Because the phone is designed to operate at multiple power levels to use only the power required to reach the network, in general, the closer you are to a wireless base station antenna, the lower the power output.

Before a phone model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government-adopted requirement for safe exposure. The tests are performed in positions and locations (e.g., at the ear and worn on the body) as required by the FCC for each model. The highest SAR value for this phone when tested for use at the ear is 0.74 W/kg and when worn on the body, as described in this user's manual, is 0.77 W/kg. (Body-worn measurements differ among phones models, depending upon available accessories and FCC requirements.) While there may be differences between SAR levels of various phones and at various positions, they all meet the government requirement for safe exposure.

The FCC has granted an Equipment

Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RF emission guidelines. SAR information on this model phone is on file with the FCC and can be found under the Display Grant section of http://www.fcc.gov/oet/fccid after searching on FCC ID ZNFP870. 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 buzing, 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 above example, if a hearing aid meets the M2 level rating and the wireless phone meets the M3 level rating, the sum of the two values equal



M5. This should provide the hearing aid user with "normal usage" while using their hearing aid with the particular wireless phone. "Normal usage" in this context is defined as a signal quality that's acceptable for normal operation.

The M mark is intended to be synonymous with the U mark. The T mark is intended to be synonymous with the UT mark. The M and T marks are recommended by the Alliance for Telecommunications Industries Solutions (ATIS). The U and UT marks are referenced in Section 20.19 of the FCC Rules. The HAC rating and measurement procedure are described in the American National Standards Institute (ANSI) C63.19 standard.

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



Consumer Cellular

CONSUMER CELLULAR, INC. 7204 SW Durham Rd. | Portland, OR 97224 | 1.800.686.4460

LG ELECTRONICS USA, INC. 1000 Sylvan Avenue | Englewood Cliffs, NJ, 07632 | 1.800.243.0000

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