

USER GUIDE

LM-Y120UM  
LM-Y120QM

## About this user guide

Thank you for choosing this LG product. Please carefully read this user guide before using the device for the first time to ensure safe and proper use.

- Always use genuine LG accessories. The supplied items are designed only for this device and may not be compatible with other devices.
- This device is not suitable for people who have a visual impairment due to the touchscreen keyboard.
- Descriptions are based on the device default settings.
- Default apps on the device are subject to updates, and support for these apps may be withdrawn without prior notice. If you have any questions about an app provided with the device, please contact an LG Service Center. For user-installed apps, please contact the relevant service provider.
- Modifying the device's operating system or installing software from unofficial sources may damage the device and lead to data corruption or data loss. Such actions will violate your LG license agreement and void your warranty.
- Some content and illustrations may differ from your device, depending on the area, service provider, software version, or OS version, and are subject to change without prior notice.
- Software, audio, wallpaper, images, and other media supplied with your device are licensed for limited use. If you extract and use these materials for commercial or other purposes, you may be infringing copyright laws. As a user, you are fully responsible for the illegal use of media.
- Select a plan suitable for your messaging, uploading, downloading, auto-syncing and location services needs. This can help you avoid any additional data costs.

## Instructional notices



**WARNING:** Situations that could cause injury to the user and third parties.



**CAUTION:** Situations that may cause minor injury or damage to the device.



**NOTE:** Notices or additional information.

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### LIMITED WARRANTY - USA



01

## **Basic Functions**

# Product components and accessories

The following items are included with your device.

- Device
- USB cable
- Battery
- Travel Adaptor

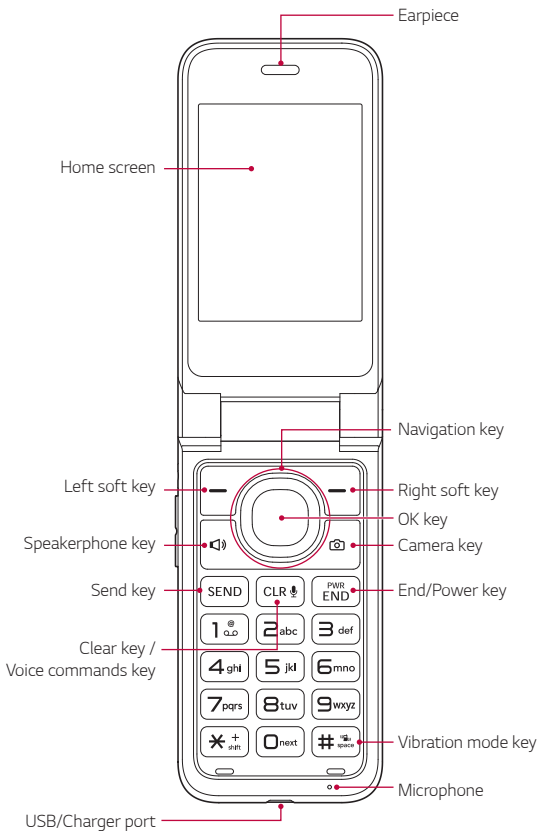


- The items supplied with the device and any available accessories may vary depending on the area and service provider.
- Always use genuine LG Electronics accessories. Using accessories made by other manufacturers may affect your device's call performance or cause malfunctions. This may not be covered by LG's repair service.

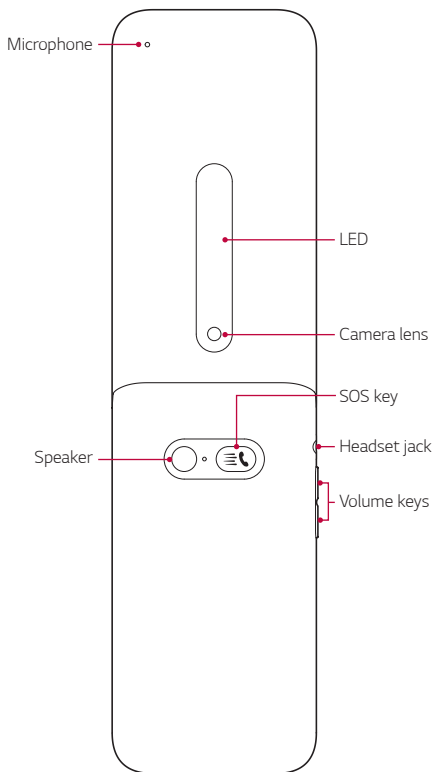


- If any of these basic items are missing, contact the dealer from which you purchased your device.
- To purchase additional basic items, contact an LG Customer Service Center.
- To purchase optional items, contact an LG Customer Service Center for available dealers.
- Some items in the product box are subject to change without notice.
- The appearance and specifications of your device are subject to change without notice.
- Device specifications may vary depending on the area or service provider.
- Be sure to use authentic accessories provided by LG Electronics. Using third-party accessories may damage the device or cause malfunctions.
- Remove the protective film on the camera lens if necessary.




# Parts overview







Home screen	Displays messages, indicator icons and active functions.
Left soft key	Allows you to select the command at the lower left area of the display screen.

Headset jack	Allows you to plug in an optional 3.5mm headset for convenient, hands-free conversations, or other compatible listening devices.
Speakerphone key	Allows you to enable or disable the speakerphone mode (Speakerphone available when you are on call or listening to FM radio).
Send key	Allows you to make and answer calls. Press from the Home screen to access your call history (All calls, Missed calls, Dialed calls and Received calls).
Microphone	Allows you to transmit your voice to a caller or for voice-activated functions (e.g., Voice commands).
Clear key / Voice commands key	<ul style="list-style-type: none"> <li>• Deletes single spaces or characters with a quick press, or press and hold to delete entire words in text entry screens. Press to back out of menus, one level at a time.</li> <li>• Press for quick access to Voice Commands from the Home screen.</li> <li>• Press and hold to open the Voice recorder app.</li> </ul>
USB/Charger port	Connects the phone to the charger adapter or other compatible accessories.
Earpiece	Lets you hear the caller and automated prompts.
OK key / Navigation key	Use <b>OK key</b>  to select options and menus. Use <b>Navigation key</b>  to scroll through menu items and highlight a specific field or object, then press <b>OK key</b>  to select it.
Right soft key	Allows you to select the command at the lower right area of the display screen.
End/Power key	Allows you to turn the power on/off and to end a call. Also exits menus and returns to the Home screen.

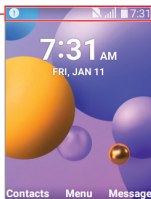
Vibrate mode key	Allows you to set Vibrate mode from the Home screen, press and hold for about 3 seconds.
LED	Indicates incoming calls, new notifications, charging status, etc.
Camera lens	Allows you to take pictures. Keep it clean for optimal performance.
Camera key	Allows you to access the Camera app. In the camera mode, press once the Camera key to take a picture, and press and hold to switch to the video mode.
Speaker	Use to listen to the audio from the selected function (e.g., music, videos, sound clips, etc.).
SOS key	Click 3 times to call the registered phone number.
Volume keys	Use to adjust the volumes.

# Home screen




The Home screen is your starting point to access all of the features on your phone using simple key presses.



## Status Bar

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



## Customizing the Home screen

You can customize your Home screen wallpaper and clock format using the Settings app. From the Home screen, press **OK key**  **[Menu]**, press **9 key**  **[Settings]**, then press **4 key**  **[Display]**.

- **Wallpaper:** Press **3 key**  **[Wallpaper]** to select a background image from pre-loaded images or your own pictures.
- **Clock Format:** Press **8 key**  **[Clock]** to set the clock format.

## Phone's status icons




The Status Bar appears at the top of every screen. It displays icons indicating that you've received notifications (on the left) and icons indicating the phone's status (on the right), along with the current time.

The following icons may appear in the Status Bar:













### Call icons

	In call		Missed call
	Microphone muted		VoLTE

### Sound icons

	Silent mode		Vibrate mode
	Music playing		









### Network icons

	4G LTE connected		Emergency Alert
	Wi-Fi connected		Signal strength
	No signal		Roaming
	No SIM card		Airplane mode
	GPS on		Downloading
	Uploading		Download successful






### Connectivity icons



- **Bluetooth®** headset icons are compatible with Bluetooth headset devices approved by LG.

	Bluetooth connected		USB connected
	Bluetooth headset battery full		Bluetooth on
	Headset connected		Bluetooth headset battery low
	Internal storage full		Headset with microphone connected





## Email and Messaging icons

 New email	 New voicemail
 Email not sent	 New text message
 New multimedia message	

## Alarm and Calendar icons

 Alarm set	 Upcoming events
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## Battery icons

 Full battery	 Charging battery
 Low battery	 Not Charging

## Other icons

 More notifications	 Screenshot saved
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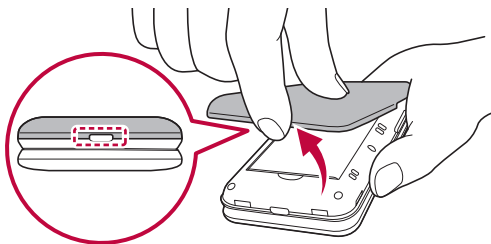
## Call logs icons

 Incoming call	 Outgoing call
 Missed call	 Rejected call

# Getting started with your phone

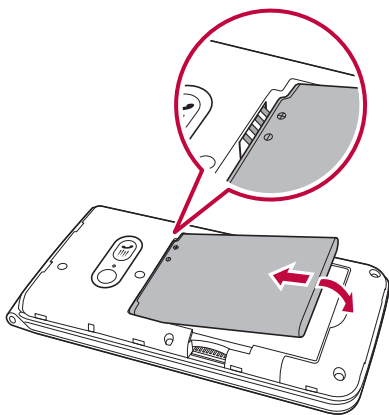
## Step 1. Remove the back cover

With the phone facing down, insert your fingernail into the cutout located on the bottom of the back cover and gently lift the cover.



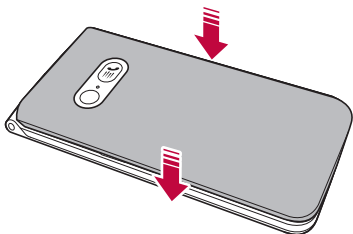
## Step 2. Insert the battery

Insert the battery, making sure the gold contacts line up. Press down gently to secure.



### Step 3. Replace the back cover

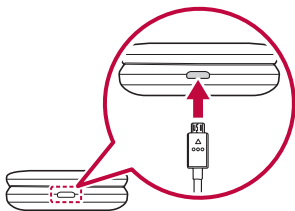
Place the back cover over the back of the phone and then press down along the edges to secure.



### Step 4. Charge the phone

Before turning on your phone, charge it fully.

Insert the small end of the USB cable into the phone. Insert the larger end into the charger and plug the charger into an outlet.



- Use only approved chargers with your phone. Incompatible chargers or tampering with the charging port could damage your phone and void the warranty.



## Removing the battery

- 1 Turn the phone off.
- 2 With the phone facing down, insert your fingernail into the cutout located on the bottom of the back cover and gently lift the cover.
- 3 Use the fingertip opening near the bottom of the battery compartment to lift the battery out.

## Charging with USB

You can use your computer to charge your phone. To be able to charge with the USB cable, you may need to have the necessary USB Driver installed on your PC first. Connect one end of the USB cable to the Accessory/Charger Port on your phone and the other end to the USB port on your PC.



- Low-power USB ports are not supported, such as the USB ports on your keyboard or bus-powered USB hub.

## Powering your phone on/off

	Press and hold <b>End/Power key</b> until the screen lights up.
	Press and hold <b>End/Power key</b> until the display turns off.

## Making calls


Open the flip and enter the phone number using the keypad.

	Press <b>Send key</b> to dial the number.
	Press <b>End/Power key</b> to end the call.

## Correcting dialing mistakes




While entering a phone number, press **Clear key / Voice commands key** once to erase the last digit entered.

## Redialing calls

With the phone open, press **Send key**  twice to redial the latest number recorded in the call log.



## Quick access to convenient features

### Vibration mode

You can set the phone to vibrate instead of ringing ( is displayed). To set Vibration Mode, press and hold **Vibration Mode key** . To return to the standard mode, press and hold **Vibration Mode key**  again.

### Sounds off

Quickly deactivate your phone's sounds when you're in a place where phone sounds would be disruptive.

From the Home screen press and hold **Volume down key** . To return to the standard sound mode, press and hold **Volume up key** .



### Quick volume adjustment

Quickly adjust ringer and earpiece volumes by pressing **Volume key**  on the left side of the phone. Press **Volume up key**  to increase the volume and **Volume down key**  to decrease the volume.





- The earpiece volume can only be adjusted during a call and keypad sound can only be adjusted through the Sound & notifications menu.





## Capturing a screenshot

Press and hold **Volume down key**  and **End/Power key**  at the same time for 2 seconds to capture a screenshot of the current screen.


To view the captured image, press **OK key**  [**Menu**], then press **3 key**  [**Gallery**].

## Recent apps



Quickly reopen apps using the Recent apps screen. From the Home screen, press **Down Navigation key**  to open the Recent apps screen which lists all of the apps you've opened. From this screen, use **Navigation key**  to highlight an app.

- Press **OK key**  [**Open**] to reopen the app.
- Press **Left soft key**  [**Remove**] to remove the app from the list.
- Press **Right soft key**  [**Options**], then press **1 key**  [**Clear all**] to remove all apps from the list.








- To use this feature, **Recent apps** needs to be designated as one of your shortcuts (the **Key shortcuts** setting in the Phone settings menu). Set it as **Up**, **Down**, **Left** or **Right Navigation key**  or designate it as one of the choices in your Shortcut menu.

## Call waiting

During a call, one beep indicates another incoming call. Press **Send key**  to answer it and put the first call on hold. Press **Send key**  again to return to the first call.

## Conference call


You can talk with up to six people at the same time in a conference call on your wireless phone. Airtime and other charges, which may include toll or long distance charges, will apply for all simultaneous calls until you end one call.

- 1 While on the first call, press **Right soft key**  **[Options]**, select **New call** and then **Dialer** and dial the 10-digit number of the second person.
- 2 Press **Send key** . The first person is automatically put on hold while the call is made.
- 3 When the second person answers, press **Right soft key**  **[Options]**, then press **2 key**  **[Merge calls]** to create a conference call.
- 4 To end both conversations completely, press **End/Power key** .

## Caller ID

Caller ID displays the number and/or name and picture (if applicable) of the person calling when your phone rings.

## Voice commands

Voice Commands allow you to do things by verbal command (e.g., make calls, check Voice mail, etc.). From the Home screen, press **Clear key / Voice commands key**  on the keypad .

- 1 **Call** Say "Call" and then call someone simply by saying the name or phone number.
- 2 **Send message** Say "Send message" and the command will prompt you for the type of message.
- 3 **Redial** Say "Redial" and the phone will redial the last phone number.
- 4 **Open App** Say "Open" and then the name of the app you want to launch.
- 5 **Play music** Say "Play music" to listen to music on your phone.
- 6 **Check** This allows you to check out a wide range of items such as **Status, Voicemail, Messages, Missed Calls, Time, Signal Strength, Network, Battery, My Phone Number** and **Volume**.










- Voice Commands can also be started with the designated key on your Bluetooth® device. Please check the user manual of the Bluetooth® device for further instructions.

# Entering and editing information

## Text input

The following key functions are available to help with text entry:

-  **Left soft key:** Press to change the text input mode.
-  **Shift:** Press to change capitalization (initial cap, caps lock, lowercase).
-  **Next:** Press to display other matching words in the database in T9 word mode.
-  **Space:** Press to insert a space.
-  **Right soft key:** Press to select one of the following options: **Attach/ Save as draft/ Quick reply/ Add subject/ Priority/ Discard.**
-  **Clear key / Voice commands key:** Press to delete a single space or character. Press and hold to delete entire words or sentences.
-  **Punctuation:** Press to insert punctuation symbols when using Abc text input mode.

## Text input modes

In a text field, press **Left soft key**  to select a text input mode:

**T9 Word/ Abc/ ABC/ 123/ T9 Palabra/ Symbols/ Emojis/ Copy/ Paste/ T9 dictionary.**



- T9 Palabra is the Spanish counterpart of T9 Word which utilizes accents, tildas, etc. for correct Spanish word spelling.









02

## Useful Apps




## Recent calls

The Recent calls menu is a list of the last phone numbers or contact entries for calls you placed, accepted, or missed. It's continually updated as new numbers are added to the beginning of the list and the oldest entries are removed from the bottom of the list.







- 1 From the Home screen, press **Send key**  to view your call logs.
- 2 Use **Navigation key**  to scroll left/right to display your call records by call type:
  - **All calls:** All calls that you missed, received, and dialed.
  - **Missed calls:** Calls you did not answer.
  - **Dialed calls:** Outgoing calls.
  - **Received calls:** Answered calls and rejected calls.
- 3 Calls display the date, time and contact or phone number. If the number is saved as a contact, the call record includes icons to indicate the type of number.
- 4 Use **Navigation key**  to highlight a call, then choose from these options:
  - Press **Left soft key**  [**Message**] to send a message.
  - Press **OK key**  [**View**] to view additional call details.
  - Press **Right soft key**  [**Options**] for these options:
    - **Add to Contacts:** Save the caller's phone number as a new contact.
    - **View contact info:** Displays the contact's information.
    - **Delete recent call:** Delete the highlighted call record.
    - **Block/Unblock number:** Block or unblock calls from the highlighted phone number.
    - **Select calls:** Select the call records you want to delete.








## Making calls using call logs

- 1 From the Home screen, press **Send key**  to view the call logs screen.
- 2 Find a call from **All calls**, **Missed calls**, **Dialed calls**, or **Received calls**.
- 3 Use **Navigation key**  to highlight a call record, and then press **Send key** .








## Creating or updating contacts using call logs

- 1 From the Home screen, press **Send key**  to view your call logs.
- 2 Use **Navigation key**  to find and highlight a call record (from **All calls**, **Missed calls**, **Dialed calls**, or **Received calls**), press **Right soft key**  [**Options**], then press **1 key**  [**Add to Contacts**].
- 3 Use **Navigation key**  to highlight **Create contact** or **Update contact**, then press **OK key**  [**Select**].
- 4 Save the number to a contact entry, as necessary.

## Deleting recent calls records

- 1 From the Home screen, press **Send key**  to view your call logs.
- 2 Use **Navigation key**  to find and highlight a call record (from **All calls**, **Missed calls**, **Dialed calls**, **Received calls**), press **Right soft key**  [**Options**], then press **2 key**  [**Delete recent call**].
- 3 At the **Delete this recent call?** prompt, press **1 key**  [**Delete**].




## Deleting all recent call records

- 1 From the Home screen, press **Send key**  to view your call logs.
- 2 Press **Right soft key**  [Options], then press **4 key**  [Select calls].
- 3 Press **Right soft key**  [Options], then press **1 key**  [Select all].
- 4 Press **Left soft key**  [Delete].
- 5 At the **Delete the selected recent calls?** prompt, press **1 key**  [Delete].











## Messaging

Allows you to send messages (text, image, video, and audio). Depending on the type of message you choose to send, you can also attach files to your messages, including images, videos, audio, voice recordings, contact cards, and calendar events.



- Use **Navigation key**  to highlight a conversation thread, and you can call the sender directly by pressing **Send key** .
- From the Home screen, pressing **Right soft key**  is a shortcut to Messaging.

## Creating and sending messages

- 1 From the Home screen, press **OK key**  [**Menu**], then press **1 key**  [**Messaging** ].  
**OR**  
From the Home screen, press **Right soft key**  [**Message**].
- 2 Press **Left soft key**  [**Compose**] to start a new message period.
- 3 Enter the recipient(s) in the To box.
  - Press **Right soft key**  [**Contacts**], select one or more entries from your contacts list, then press **Left soft key**  [**Done**].
  - Enter a name (or a partial number), select a suggestion displayed from your contacts list.
  - Enter a number manually for phone numbers not in your contacts list.
- 4 Use **Navigation key**  to highlight the message box, then enter your message.
  - **Attach:** Press **Right soft key**  [**Options**] to add images, audio, and more to your message.
- 5 Press **OK key**  [**Send**] to send the message.
  - Your message is displayed and responses appear in the same window.

## Viewing new messages

When you receive a new message, the New message icon (☰) appears on the Status bar.

### To view the message:

- From the Home screen, press **OK key** (○) [**Menu**], then press **1 key** (1) [**Messaging**] and select the new message.
- From the Home screen, press **Right soft key** (≡) [**Message**] and select the new message.

## Deleting messages

To delete messages, follow these steps:

- 1 From the conversation threads view, press **Right soft key** (≡) [**Options**].
- 2 Press **3 key** (≡) [**Select conversation**] to select messages you want to delete.



- If you want to delete a message, select a message and then press **Right soft key** (≡) [**Options**] > **2 key** (2) [**Delete**].

- 3 Select messages you want to delete and then press **Right soft key** (≡) [**Options**].
- 4 Press **1 key** (1) [**Delete**] and confirm when prompted.











# Contacts

## Adding a new contact








Allows you to add a new contact to your contacts list.



- Using this method, the number is saved as a new contact, not into an existing contact.







- 1 From the Home screen,
  - Press **OK key**  [**Menu**] and then press **2 key**  [**Contacts** ].**OR**
  - Press **Left soft key**  [**Contacts**].
- 2 Press **Right soft key**  [**Options**].
- 3 Press **1 key**  [**New contact**].
- 4 Enter the contact's name.
- 5 Press **Down Navigation key**  to scroll to the phone number type field, then scroll horizontally to select the one you want.
- 6 Press **Down Navigation key**  to scroll the phone number field, then enter the number.
- 7 Use **Navigation key**  to scroll to other fields and enter additional contact information as necessary, then press **OK key**  [**Save**] to save the entry.

## Adding a new contact from recent calls

- 1 From the Home screen, press **Send key**  to display your recent calls.
- 2 Use **Navigation key**  to highlight a recent call entry.
- 3 Press **Right soft key**  [**Options**].
- 4 Press **1 key**  [**Add to Contacts**], then press **1 key**  [**Create contact**].
- 5 Enter the name and use **Navigation key**  to scroll and enter the contact's information as necessary.
- 6 When the entry is complete, press **OK key**  [**Save**] to save the entry.










## Editing a contact

To make changes to an existing contact.






- 1 From the Home screen, press **Left soft key**  [**Contacts**].
- 2 Use **Navigation key**  to highlight a contact entry, then press **OK key**  [**View**].
- 3 Press **OK key**  [**Edit**] to make changes.
- 4 Use **Navigation key**  to highlight the field you want to change.
- 5 Make the changes, then press **OK key**  [**Save**] to update your contact entry.

## Storing a number with pauses

Pauses allow you to enter additional series of numbers to access automated systems such as voicemail or credit billing numbers. Pause types are:

- **Wait (;)** The phone dials the phone number, but does not advance to the next series of digits until the user releases the pause. When the prompt, "**Send the following tones?**" appears, use **Navigation key**  to highlight **Yes**, then press **OK key**  [**OK**].
  - **2-sec pause (,)** The phone waits two seconds before dialing the next series of digits.
- 1 From the Home screen, enter the phone number, then press **Right soft key**  [**Options**].
  - 2 Use **Navigation key**  to highlight **Add 2-sec pause** or **Add wait**, then press **OK key**  [**Select**].
  - 3 Enter the additional number(s) (e.g., pin number, credit card number, etc.).
  - 4 When you're finished, press **Right soft key**  [**Options**].
  - 5 Press **1 key**  [**Add to Contacts**].
  - 6 Choose **Create contact** or **Update contact**.
  - 7 Use **Navigation key**  to scroll and enter the contact's information as necessary.
  - 8 When the entry is complete, press **OK key**  [**Save**] to save the entry.

## Deleting a contact

- 1 From the Home screen, press **Left soft key**  [**Contacts**].
- 2 Use **Navigation key**  to highlight an entry.
- 3 Press **Right soft key**  [**Options**].
- 4 Press **2 key**  [**Delete**].
- 5 Press **1 key**  [**Delete**].












## Speed dialing

Allows you to make phone calls quickly and easily to numbers stored in your contacts.











- Speed Dial 1 is reserved for voicemail.

### Assigning a speed dial

- 1 From the Home screen, press **Left soft key**  [**Contacts**], use **Navigation key**  to highlight an entry, then press **OK key**  [**View**].
- 2 Press **OK key**  [**Edit**].
- 3 Use **Navigation key**  to highlight a phone number, then press **Right soft key**  [**Options**].
- 4 Use **Navigation key**  to highlight **Set speed dial**, then press **OK key**  [**Select**].
- 5 Set the speed dial digit using **Navigation key**  to highlight it, then press **OK key**  [**Select**].
- 6 Press **OK key**  [**Save**] to update your contact entry.

### Removing a speed dial



- 1 From the Home screen, press **Left soft key**  [**Contacts**].
- 2 Use **Navigation key**  to highlight a contact entry, press **Right soft key**  [**Options**].
- 3 Press **4 key**  [**Speed dial**] to open the speed dial list.
- 4 Use **Navigation key**  to highlight a set speed dial, then press **Right soft key**  [**Options**].
- 5 Press **2 key**  [**Remove**].  
**OR**  
Press **3 key**  [**Remove all**].




## Single digit speed dials

Press and hold the speed dial digit. Your phone recalls the phone number from your contacts, displays it, and dials it for you.

## Multiple digit speed dials











When you press and hold a number key, it signals the phone to call a speed dial. To dial speed dials with multiple digits, press the first digit(s), then press and hold the last digit. For example, to call speed dial 25, press **2 key** , then press and hold **5 key** .



• You can also enter the speed dial digit(s) and press **Send key** .

## Favorites

Allows you to add contact entries to your list of favorites to easily view, call, or send messages.

- 1 From the Home screen, press **Left soft key**  [**Contacts**].
- 2 Use **Navigation key**  to highlight **Favorites** and then press **OK key**  [**View**].
- 3 Press **OK key**  [**Add**].
- 4 Use **Navigation key**  to scroll through your contacts alphabetically and press **OK key**  [**Select**] for each of the entries you want to add.
- 5 Press **Left soft key**  [**Add**]. Once you have added contacts to your favorites list, the following options will become available in the Favorites menu:
  - **OK key** : **View**
  - **Left soft key** : **Message**
  - **Right soft key** : **Options** to access **Add favorites/ Remove/ Remove all**

## Groups

Allows you to view your grouped contacts, add a new group, change the name of a group, or delete a group.

- 1 From the Home screen, press **Left soft key** [Contacts].
- 2 Use **Navigation key** to highlight **Groups**, then press **OK key** [View].
- 3 **View a Group**  
Use **Navigation key** to highlight a group, then press **OK key** [View].

### Add a New Group

Press **Left soft key** [New] to add a new group to the list. Enter a name and press **OK key** [Save].

### Options when viewing a group

Press **Right soft key** [Options] to select one of the following: **Message/ Remove contacts/ Rename group/ Delete group**.









## Adding contacts to a group

- 1 Open your contacts list, select **Groups**, then use **Navigation key** to highlight the group name.
  - Press **OK key** [View], then press **Left soft key** [Add].**OR**
  - Press **Right soft key** [Options], then press **1 key** [Add contacts].
- 2 Highlight the desired contact(s), then press **OK key** [Select].
- 3 Press **Left soft key** [Add] to add the contact(s) to the group.







## In case of emergency (ICE)

In Case of Emergency contacts is displayed above your list of contacts. Add up to 5 emergency entries from your contacts list. These are entries that someone can contact on your behalf in the event of an emergency, whether or not the phone is locked.








## Assigning emergency contacts

- 1 From the Home screen, press **Left soft key**  [**Contacts**].
- 2 Use **Navigation key**  to highlight **In Case of Emergency**, then press **OK key**  [**View**].
- 3 Use **Navigation key**  to highlight **Add contacts**, then press **OK key**  [**View**].
- 4 Use **Navigation key**  to highlight each desired contact, then press **OK key**  [**Select**].
- 5 Press **Left soft key**  [**Add**].

## To unassign an ICE contact






- 1 From the ICE Contacts screen, press **Right soft key**  [**Options**], then press **2 key**  [**Remove**].
- 2 Use **Navigation key**  to highlight the contact, then press **OK key**  [**Select**].
- 3 Press **Left soft key**  [**Remove**], then press **1 key**  [**Remove**].

## Entering your emergency info

- 1 From the Home screen, press **Left soft key**  [**Contacts**].
- 2 Use **Navigation key**  to highlight **In Case of Emergency**, then press **OK key**  [**View**].
- 3 Use **Navigation key**  to highlight **Emergency info**, then press **OK key**  [**View**].
- 4 Press **OK key**  [**Add**].
- 5 Enter information that would be helpful in an emergency (e.g., your medical record number), then press **OK key**  [**Save**].








## Name card

Allows you to create, edit, and view your own personal contact information including name, phone numbers, and email address in one entry.

- 1 From the Home screen, press **Left soft key**  [**Contacts**].
- 2 Use **Navigation key**  to highlight **My profile**, then press **OK key**  [**Setup**] to enter your personal contact information.
- 3 Use **Navigation key**  to scroll to the information you want to enter.
- 4 Enter your information as necessary, then press **OK key**  [**Save**].









## Gallery

The Gallery app presents all of the pictures and videos stored in your phone, including those you've taken with the Camera app and those you downloaded from the web or other locations. When another app saves a picture, it automatically creates an album in the File Manager app to contain the picture (e.g., capturing a screen shot creates the Screenshots album).

- 1 From the Home screen, press **OK key**  [**Menu**].
- 2 Press **3 key**  [**Gallery** ].
  - Use **Navigation key**  to highlight one of the thumbnail images, then press **OK key**  [**View**] to open the picture or video.
  - Press **Right soft key**  [**Options**] to access **Share, Delete, Select files, Edit, Set image as, Slideshow, Rename, and Details**.
  - Press **Left soft key**  [**Camera**] to access to the Camera app.











## Sharing content

You can select one (or more) photos and/or videos to share. After selecting the file(s), select **Share** to open the available sharing options (such as Messaging, Email, or Bluetooth), then complete as necessary.

- 1 From the Home screen, press **OK key**  [**Menu**].
- 2 Press **3 key**  [**Gallery** ].
- 3 Use **Navigation key**  to highlight a desired photo or video.
- 4 Press **Right soft key**  [**Options**], then press **1 key**  [**Share**].
- 5 Use **Navigation key**  to select a sharing option.
- 6 Press **OK key**  [**Select**] then complete the step as necessary.








## Assigning pictures

After taking a picture, assign it as a picture ID for a contact entry or as the background image (wallpaper) for your Home screen.


- 1 From the Home screen, press **OK key**  [**Menu**].
- 2 Press **3 key**  [**Gallery** ].
- 3 Use **Navigation key**  to highlight a desired photo or video.
- 4 Press **Right soft key**  [**Options**], then press **5 key**  [**Set image as**].
- 5 Use **Navigation key**  to select **Contact photo** or **Wallpaper**, press **OK key**  [**Select**].
  - **Contact photo**: Assigns the picture to a Contact entry as a picture ID. Crop the image as necessary.
  - **Wallpaper**: Assigns the picture as the background image. Crop the image as necessary.
- 6 Use **Navigation key**  to adjust the crop box, then press **OK key**  [**Save**].

# Camera





You can use the Camera app to take and share pictures and videos. Access the camera options to switch between taking pictures and recording video. The Options menu also allows you to change the settings.

- 1 From the Home screen, press **OK key**  [**Menu**].
- 2 Press **4 key**  [**Camera** ].
  - Use **Up** and **Down Navigation key**  to zoom in and out.
  - Use **Left** and **Right Navigation key**  to adjust the brightness.
  - Press **Right soft key**  [**Options**] to access **Record video, Storage, Shutter sound, Timer, Resolution** and **Preview mode**.
    - In the video mode, available options are: **Take photo, Storage, Video Length, Resolution, and Preview mode**.
  - Press **Left soft key**  [**Gallery**] to open the Gallery app.




- From the Home screen, press **Camera key**  on the right side of the phone to open the Camera app.










## Taking a photo

- 1 From the Home screen, press **OK key**  [**Menu**].
- 2 Press **4 key**  [**Camera** ].
- 3 Hold the phone and point the lens towards the subject of the photo.
- 4 Press **OK key**  [**Take**] to take a photo. Your picture will be automatically saved to the Gallery.




- You can also press **Camera key**  on the right side of the phone to take a photo.

## Recording a video

- 1 From the Home screen, press **OK key**  [**Menu**].
- 2 Press **4 key**  [**Camera** ].
- 3 Press **Right soft key**  [**Options**], then press **1 key**  [**Record video**] to activate video mode.
- 4 Point the lens towards the subject of the video and press **OK key**  [**REC**] to start recording.
  - Press **Left soft key**  [**Pause**] to pause your video recording. Then, resume your recording by pressing **Left soft key**  [**Resume**].
- 5 Press **OK key**  [**Stop**] to stop recording and your video will be automatically saved to the Gallery.







- Press **Camera key**  on the right side of the phone to record a video.



## Music

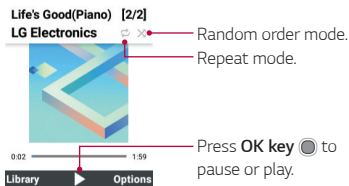
Your phone has a music player that lets you play all of your favorite tracks.

Use the USB cable that came with your phone to transfer music files to your phone or download music files directly to your phone.







### Playing a song

- 1 From the Home screen, press **OK key**  [**Menu**], then press **5 key**  [**Music** ].
- 2 Use **Navigation key**  to select a song in the Music library.
  - Scroll vertically through lists.
  - Scroll horizontally through categories.

- 3 Press **OK key**  [**Select**] (if necessary), then press **OK key**  [**Play**] to play the song.






## Music options







- 1 From the Home screen, press **OK key**  [**Menu**], then press **5 key**  [**Music** ].
- 2 Use **Navigation key**  to highlight a song, then tap **OK key**  [**Play**] to play the song.
- 3 Press **Right soft key**  [**Options**] for these options:
  - **Repeat**: Set the repeat mode (Off, One song, or All songs).
  - **Shuffle On**: Set the shuffle mode (toggle it on or off).
  - **Add to playlist**: Create or update playlists to organize your music files into sets of songs, which you can play in the order you set or in a shuffle.
  - **Share**: Share the selected song using Messaging or Email. You can also transfer a selected song using Bluetooth.
  - **Set as ringtone**: Set the selected song as your phone ringtone.
  - **Delete**: Delete the selected song.
  - **Details**: View information about the selected song.




# Internet


The Internet app allows you to access news, sports, weather, and email from your device. Accessibility and selections within this feature are dependent upon your service provider. For specific information on Internet access through your phone, contact your service provider.







From the Home screen, press **OK key**  [**Menu**], then press **6 key**  [**Internet** ].

- Press **Left soft key**  [**Tabs**] to view your open tabs and allow you to switch between them.
- Press **OK key**  [**Go**] to go to the web address.
- Press **Clear key / Voice commands key**  to go back to the previous page in your browsing history.
- Press **Right soft key**  [**Options**] for these options:
  - **Refresh**: Reload the current web page.
  - **Search/enter address**: Enter keywords or a URL address to search the web.
  - **New tab**: Create a new tab.
  - **Home**: Go to your home URL.
  - **Bookmarks**: Quickly and easily access saved bookmarks or create a favorite bookmark page.
  - **Bookmark page**: Save the URL of the current page as a bookmark.
  - **History**: View recently-viewed pages.
  - **Forward**: Go to the next page in your browsing history.
  - **Zoom**: Adjust the zoom ratio of the page by pressing **Left soft key**  and **Right soft key** .
  - **Reset zoom**: Return to the original size of the page.
  - **Find on page**: Find text in the current web page.
  - **Request desktop/mobile site**: Select the mobile view or full view.

- **Share:** The current URL is copied allowing you to share it using Message, Email or Bluetooth, or you can save it to your clipboard.
- **Downloads:** Access downloaded files stored in your internal storage or microSD card.
- **Settings:** Customize the Internet app settings to your preferences. Press **4 key**  **[Keypad shortcuts]** from the Settings screen, you can see the shortcut description for each key.

## Entering a URL



Manually enter a URL (web address) to go directly to the web page you want. Or you can use **Navigation key**  to select one of the suggestions that appear as you begin to type.

- 1 From the Home screen, press **OK key**  **[Menu]**, then press **6 key**  **[Internet]** .
- 2 Press **Up Navigation key**  to move the cursor  to the URL Address field, and enter the web address.
- 3 Press **OK key**  **[Go]** to go to the web address.

## Navigating through the Internet

On-screen items appear in one of the following ways:


### Links embedded in content

You can act on options or links on a web page by moving the cursor  over it, then pressing **OK key** .

### Scrolling

Use **Navigation key**  to scroll in any direction on the page.



- When you press and hold **OK key**  on a web page, you can conveniently use the scroll page function to scroll.

## Fast scrolling



Press and hold **Navigation key**  to quickly move the cursor up and down on the current screen.

## Soft keys


Use the Soft keys (just below the display screen) to access special functions that apply to the current selection (when available). They may change depending on the page and/or selection.

## Entering Text, Numbers, or Symbols





When prompted to enter text, you can enter the necessary characters from your phone's keypad using the text mode of your choice (abc, Abc, ABC, 1 2 3, or symbols).

- To enter an uppercase character, press **Shift key** .
- To insert a space or the hashtag symbol, press **Hashtag key** .




## Deleting Text/Number Entered

When entering text or numbers, press **Clear key / Voice commands key**  to clear the last number, letter, or symbol.





## Initiating a phone call from the internet

You can make a phone call from the Internet if the site you're using supports the feature. Using **Navigation key** , place the cursor  over the phone number you want to call, press **OK key**  [**Go**] to go to the call screen, then press **OK key**  [**Call**] to make a call.

## Changing between tabs













- 1 While viewing a web page, press **Left soft key**  [**Tabs**].
- 2 Use **Navigation key**  to highlight an open tab (indicated by a blue border), then press **OK key**  [**Select**].

## Closing tabs

- 1 While viewing a web page, press **Left soft key**  [Tabs].
- 2 Press **Right soft key**  [Options].
  - Press **1 key**  [Close tab] to close only the current tab.
  - Press **2 key**  [Close all tabs] to close all open tabs.

## Calendar




Allows you to store and access your agenda(s). Simply enter your appointments in the Calendar, and your phone can (depending on your settings) alert you with a reminder.





- 1 Open the flip and press **OK key**  [Menu].
- 2 Press **7 key**  [Calendar ].
- 3 Use **Navigation key**  to highlight a day.
  - Left Navigation key**  Moves to the previous day.
  - Right Navigation key**  Moves to the next day.
  - Up Navigation key**  Moves to the previous week.
  - Down Navigation key**  Moves to the next week.
- 4 To create a new event, press **Left soft key**  [New].
- 5 Enter the event name.
- 6 Use **Navigation key**  to move to the **Location** field and enter the location. Check the date and enter the time you wish your event to start and finish.
- 7 Enable the **All day** option, if applicable.
- 8 Use **Navigation key**  to enter additional options, such as Date and time, Time zone, Repeat, Reminders, Reminder sound, Description, as necessary.
- 9 Press **OK key**  [Save] to save the event in the calendar.

# Tools

Your phone's tools include: Voice command, Voice recorder, Email, Alarm, World clock, Timer, Stopwatch, Calculator, Notepad, File manager, and FM radio.


## Voice command




The Voice command app provides you with a variety of command options equipped with AVR (Advanced Voice Recognition) technology. Each command option has help information on the phone that you can check out by pressing **Right soft key**  [**Options**], then pressing **2 key**  [**Help**]. Highlight a Voice command, then press **OK key**  [**Select**].

- 1 From the Home screen, press **OK key**  [**Menu**].
- 2 Press **8 key**  [**Tools** ].
- 3 Press **1 key**  [**Voice command**].
- 4 Say the voice command you want to use.

## Using voice command



- From the Home screen, press **Clear key / Voice commands key**  on the keypad.

You can set the language the Voice command feature uses. Access Voice command, press **Right soft key**  [**Options**], then press **1 key**  [**Select language**]. Highlight a desired language, then press **OK key**  [**Select**].

## Using the call command

Say "Call" and then call someone simply by saying the contact name or phone number. Speak clearly and say the name exactly as it is entered in your contacts list. When an entry has more than one contact number, you can state the name and number type of the contact (for example, 'Call John Work').

## Sending a message with voice command

Say “Send message” and you’ll be prompted for the contact name or a phone number. If you say a full-sentence command, such as ‘Send Message to Bob’, it will automatically start a text message with Bob as the recipient. Speak clearly and say the name exactly as it is entered in your contacts list.

## Redial

Say “Redial” and the phone will redial the last phone number.

## Open App

Say “Open” and the app you want use to automatically launch applications.

## Play music

Say “Play music” and the phone will automatically begin playing the last selected music file.


## Check <Item>

The “Check” command allows you to check out a wide range of items such as **Status, Voicemail, Messages, Missed Calls, Time, Signal Strength, Network, Battery, My Phone Number** and **Volume**.








## Voice recorder

The Voice recorder app records audible files. Use them to simply remind you about something you don’t want to forget (like a grocery list) or record sound effects that you can attach to a message.












- From the Home screen, press and hold **Clear key / Voice commands key**  on the keypad to open the Voice recorder app.

## Record a voice memo

- 1 From the Home screen, press **OK key**  [**Menu**].
- 2 Press **8 key**  [**Tools** ].
- 3 Press **2 key**  [**Voice recorder**].
- 4 Press **OK key**  [**Record**] to start recording, then speak into the microphone.
  - Press **Left soft key**  [**Pause (Resume)**] to pause or resume your recording.
- 5 When you're finished, press **OK key**  [**Stop**]. The recording is automatically saved to your recordings list.







## Play a voice memo

- 1 From the Home screen, press **OK key**  [**Menu**].
- 2 Press **8 key**  [**Tools** ].
- 3 Press **2 key**  [**Voice recorder**].
- 4 Press **Left soft key**  [**List**].
- 5 Use **Navigation key**  to highlight a recording, press **OK key**  [**Play**], then use the following options while listening to a voice memo.
  - Press **Left soft key**  [**Pause (Resume)**] to pause or resume the recording.
  - Press **OK key**  [**Stop**] to end the playback and return to your recordings list.









## Managing your voice memos

From your recordings list you can delete, share, rename and view the details of a recording. You can also select multiple recordings to delete or share at the same time.

### Single file

- 1 From the Recordings list, use **Navigation key**  to highlight a file.
- 2 Press **Right soft key**  [**Options**].
  - Press **1 key**  [**Delete**] to delete the file.
  - Press **2 key**  [**Share**] to share the file.
  - Press **3 key**  [**Rename**] to rename the file.
  - Press **5 key**  [**Details**] to view the file information.
- 3 Follow the prompts for the selected option as necessary.





### Multiple files

- 1 From the Recordings list, press **Right soft key**  [**Options**], then press **4 key**  [**Select recordings**].
- 2 Use **Navigation key**  to highlight a file, then press **OK key**  [**Select**] to select each file of your choice.
- 3 Press **Right soft key**  [**Options**].
  - Press **1 key**  [**Delete**] to delete the files.
  - Press **2 key**  [**Share**] to share the files.
  - Press **4 key**  [**Deselect all**] to deselect all files.
- 4 Follow the prompts for the selected option as necessary.









## Email

The following account types are supported: Microsoft Exchange, Outlook, Yahoo! Mail, AOL Mail, and other accounts.









- 1 From the Home screen, press **OK key**  [**Menu**].
- 2 Press **8 key**  [**Tools** ].
- 3 Press **3 key**  [**Email**].

## Setting up your Email


After the initial setup, the Email app displays the contents of your Inbox. It's quick and simple to set up a POP3 or IMAP4 email account.









- 1 From the Home screen, press **OK key**  [**Menu**].
- 2 Press **8 key**  [**Tools** ].
- 3 Press **3 key**  [**Email**].
- 4 The first time you open the Email app, you need to setup an email account.
- 5 Enter the necessary information using **Navigation key** , the keypad and **OK key** .

## Using your Email




- 1 From the Home screen, press **OK key**  [**Menu**].
- 2 Press **8 key**  [**Tools** ].
- 3 Press **3 key**  [**Email**].
  - Press **Left soft key**  [**Compose**] to compose a new message.
  - Use **Navigation key**  to scroll through your Inbox list.
  - Press **OK key**  [**View**] to open a highlighted message.
  - Press **Right soft key**  [**Options**] to access **Sync now, Delete, Search, Mark as read/unread, Move, Select emails, Sort by, Folders, Accounts, and Settings**.

## Alarm



The Alarm app allows your phone to function as an alarm clock. At the alarm time, your alarm will be displayed on the screen and the alarm will sound. To stop the alarm sound, open the flip, then press **OK key**  [**Dismiss**] or **Left soft key**  [**Snooze**].

- 1 From the Home screen, press **OK key**  [**Menu**].
- 2 Press **8 key**  [**Tools** ].
- 3 Press **4 key**  [**Alarm**].
- 4 Press **OK key**  [**Add**] to add an alarm for the first time.
- 5 Use **Navigation key**  to highlight the information you want to set, then press **Left soft key**  [**Set**] to view your setting choices.
- 6 Enter the alarm information including:
  - Turn On/Off
  - Time
  - Repeat
  - Snooze
  - Type
  - Alarm tone
  - Volume
- 7 Press **OK key**  [**Save**] after setting all of the alarm fields as necessary.

## How to delete alarms









- 1 From the Alarm clock list, press **Right soft key**  [**Options**].
- 2 Press **2 key**  [**Delete**] to delete the highlighted alarm.
- 3 At "Delete this alarm?" prompt, press **1 key**  [**Delete**].

## How to edit alarms

- 1 From the Alarm clock list, use **Navigation key**  to highlight the alarm you want to edit.
- 2 Press **OK key**  [**Edit**] and make your changes as necessary.








## World clock

Allows you to determine the current time in another time zone or country.


- 1 From the Home screen, press **OK key**  [**Menu**].
- 2 Press **8 key**  [**Tools** ].
- 3 Press **5 key**  [**World clock**].
- 4 Press **Left soft key**  [**Add**] or press **OK key**  [**Add**] to add.
- 5 Enter a city or state in the search bar, then use **Navigation key**  to highlight the city or state you want to add.
- 6 Press **OK key**  [**Select**].

## Timer

The Timer app alerts you with an audible signal when a set amount of time has passed.

- 1 From the Home screen, press **OK key**  [**Menu**].
- 2 Press **8 key**  [**Tools** ].
- 3 Press **6 key**  [**Timer**].
- 4 Press **Left soft key**  [**Set**], use **Navigation key**  to enter the amount of time you want set, then press **OK key**  [**OK**].











- You can quickly add additional minutes one at a time by pressing **Right soft key**  [**+1 Min**].

- 5 Press **OK key**  [**Start**] to start the timer.









## Stopwatch

The Stopwatch app allows you to use your phone as a typical stopwatch.



- 1 From the Home screen, press **OK key**  [**Menu**].
- 2 Press **8 key**  [**Tools** ].
- 3 Press **7 key**  [**Stopwatch**].
- 4 Press **OK key**  [**Start**] to initiate the stopwatch.
  - Press **OK key**  [**Lap**] to record lap times.
- 5 Press **Left soft key**  [**Pause**] to stop timing.
- 6 After time has stopped, press **Right soft key**  [**Reset**].





## Calculator

The Calculator app allows you to perform simple mathematical calculations.

- 1 From the Home screen, press **OK key**  [**Menu**].
- 2 Press **8 key**  [**Tools** ].
- 3 Press **8 key**  [**Calculator**].
- 4 Enter the numbers to get the value you want. To clear entered items, press **Left soft key**  [**Clear**].
- 5 Use **Right soft key**  [**Operator**] to add other operators.
- 6 Use **Navigation key**  to enter an operation between numbers and press **OK key**  = for the result.














• To insert a decimal, press **Asterisk key** . To switch between a positive and negative number, press **Hashtag key** .

- Press **Up Navigation key**  for + (addition).
- Press **Down Navigation key**  for - (subtraction).
- Press **Right Navigation key**  for ÷ (division).
- Press **Left Navigation key**  for × (multiplication).











## Notepad

Allows you to add, read, edit, and erase notes to yourself.

- 1 From the Home screen, press **OK key**  [**Menu**].
- 2 Press **8 key**  [**Tools** ].
- 3 Press **9 key**  [**Notepad**].
  - Press **Left soft key**  [**New**] or **OK key**  [**New**] to write a new note, then press **OK key**  [**Save**] when you're finished.
  - Use **Navigation key**  to highlight an existing note, press **OK key**  [**View**], then press **OK key**  [**Edit**].
  - Press **Right soft key**  [**Options**] to access **Edit, Delete, Share, Select notes** and **Details**.





## File manager

Use the File manager app to easily view and manage your folders and files stored in your phone. When you open File manager, all of your phone's internal storage and memory card (if available) file folders are displayed.

- 1 From the Home screen, press **OK key**  [**Menu**].
- 2 Press **8 key**  [**Tools** ].
- 3 Press **0 key**  [**File manager**].
- 4 Use **Navigation key**  to select a folder, then press **OK key**  [**Open**] to open the folder and view its contents.
  - Use **Navigation key**  to select content within a folder, then press **OK key**  [**Open**] to open it. Repeat until you access the content you're looking for.
  - Press **Clear key / Voice commands key**  to back out one level at a time.
- 5 Press **Right soft key**  [**Options**] to access **Share, Sort by, View as grid/list, New folder, Select files, Copy, Move, Delete, Rename, Search,** and **Details**.

## FM radio

You can listen to FM radio.

- 1 From the Home screen, press **OK key**  [Menu].
- 2 Press **8 key**  [Tools ].
- 3 Press **Asterisk key**  [FM radio].



- Plug in your earphones to listen to FM radio.







03





**Settings**

# Wireless & networks









The Wireless & networks menu allows you to configure and manage your device's wireless radio communications.

- 1 From the Home screen, press **OK key**  [**Menu**].
- 2 Press **9 key**  [**Settings** ].
- 3 Press **1 key**  [**Wireless & networks**].









## Airplane mode

- 1 From the Wireless & networks menu screen, press **1 key**  [**Airplane mode**].
- 2 Use **Navigation key**  to highlight **On** or **Off**, then press **OK key**  [**OK**].
- 3 Press **Clear key / Voice commands key**  to exit.









## Wi-Fi

- 1 From the Wireless & networks menu screen, press **2 key**  [**Wi-Fi**].
- 2 Press **Left soft key**  [**Turn on**] to turn on the Wi-Fi.
- 3 Use **Navigation key**  to highlight a Wi-Fi network, then press **OK key**  [**Connect**] to connect to it.
- 4 Press **Right soft key**  [**Options**] to access the following options to manage your Wi-Fi connections.
  - **1 key**  [**Search**] Searches for nearby Wi-Fi networks.
  - **2 key**  [**Forget Wi-Fi**] Allows you to remove specific Wi-Fi network information.
  - **3 key**  [**Modify Wi-Fi**] Allows you to modify specific Wi-Fi network information.








- **4 key**  **[Add Wi-Fi]** Allows you to manually add a Wi-Fi network by entering its name (SSID), security, and password.
- **5 key**  **[Saved Wi-Fi]** Displays your saved Wi-Fi networks allowing you to manage them. This menu will be shown after a Wi-Fi network is added.
- **6 key**  **[Advanced Wi-Fi]** Provides additional specific Wi-Fi connection settings:
  - **1 key**  **[Wi-Fi notification]** Enable this option to be notified if Wi-Fi networks are available nearby.
  - **2 key**  **[Keep Wi-Fi on during sleep]** Allows you to set the Wi-Fi status when the screen is off.
  - **3 key**  **[Connect by WPS button]** Provides information to connect to a secured Wi-Fi network with a WPS button.
  - **4 key**  **[Connect by WPS PIN]** Provides the WPS PIN to connect to a secured Wi-Fi network.
  - **5 key**  **[Install certificates]** Allows you to install certificates from storage.







## Bluetooth

- 1 From the Wireless & networks menu screen, press **3 key**  **[Bluetooth]**.
- 2 Press **Left soft key**  **[Turn on]** to pair and connect with other Bluetooth devices. All Bluetooth devices that are within your phone's range will be listed. Use **Navigation key**  to highlight a device to pair and connect.
- 3 Press **Right soft key**  **[Options]** to access the following options:
  - **1 key**  **[Search]** Searches for nearby Bluetooth devices.
  - **2 key**  **[Rename phone]** Allows you to change your phone name for easy identification when pairing and connecting.
  - **3 key**  **[Received files]** Displays a list of the files received via a Bluetooth device.
  - **4 key**  **[Help]** Displays Bluetooth help information.


## VPN

- 1 From the Wireless & networks menu screen, press **4 key**  **[VPN]** to set up a Virtual Private Network.
- 2 Press **Left soft key**  **[Add]** to create a new VPN.
  - Press **Right soft key**  **[Options]** to access **Edit**, **Delete**, **Always-on VPN** or **Help**.
- 3 Press **OK key**  to connect.
  - Enter the ID and password, then press **OK key**  to save.



## Cellular networks

- 1 From the Wireless & networks menu screen, press **5 key**  [**Cellular networks**] to set various network settings.
- 2 Select an available network setting and set it to your preferences.
  - **1 key**  [**Mobile data**] Enable this option to allow data access over the mobile network.
  - **2 key**  [**Data usage**] Allows you to manage your mobile data usage (e.g., disconnect from the mobile network to stop using mobile data and exclusively use a Wi-Fi network connection for data instead).  
Its options include **Data usage** (viewed on a graph), **Limit data usage**, **Data usage alert** and **Monthly usage cycle**.
  - **3 key**  [**Data roaming access**] Enable this option to allow data roaming.
  - **4 key**  [**Network type and strength**] Displays the current network type and the signal strength.
  - **5 key**  [**Access Point Names**] Allows you to set up APNs for data service.

## Enhanced Calling





From the Wireless & networks menu screen, press **6 key**  [**Enhanced Calling**] to set for VoLTE feature.

## Emergency alerts









- 1 From the Wireless & networks menu screen, press **7 key**  [**Emergency alerts**] to view emergency alerts and customize your emergency alerts settings.
- 2 Press **Right soft key**  [**Settings**] to view and change its settings.

# Accessibility




The Accessibility menu provides settings to make your phone easier for you to use based on your personal capabilities and/or limitations.

- 1 From the Home screen, press **OK key**  [**Menu**].
- 2 Press **9 key**  [**Settings** ].
- 3 Press **2 key**  [**Accessibility**].




## Readout

- 1 From the Accessibility menu screen, press **1 key**  [**Readout**].
- 2 Select a Readout setting and set it to your preference(s) using **Navigation key**  to highlight your choice, then press **OK key**  [**OK**].
  - **1 key**  [**Readout**] Allows you to read the screens out loud for blind and low-vision users or when your eyes are busy.
  - **2 key**  [**Readout shortcut**] Allows you to enable and disable the readout menu by pressing and holding **Asterisk key**  and **Hashtag key**  at the same time from any screen.
  - **3 key**  [**Readout settings**] Allows you to set various readout settings.




## Larger text

- 1 From the Accessibility menu screen, press **2 key**  [**Larger text**].
- 2 Use **Navigation key**  to highlight **On** or **Off**, then press **OK key**  [**OK**].








## Color inversion

- 1 From the Accessibility menu screen, press **3 key**  [**Color inversion**] to allow you to invert the screen colors for higher contrast.
- 2 Use **Navigation key**  to highlight **On** or **Off**, then press **OK key**  [OK].




## Color correction

- 1 From the Accessibility menu screen, press **4 key**  [**Color correction**] to allow you to adjust the screen's hue and contrast.
- 2 Use **Navigation key**  to highlight **Off**, **Protanomaly (red-green)**, **Deuteranomaly (red-green)**, or **Tritanomaly (blue-yellow)**, then press **OK key**  [OK] to apply the setting to your phone.

## Captions




- 1 From the Accessibility menu screen, press **5 key**  [**Captions**].
- 2 Press **Left soft key**  [Turn on].
- 3 Select a captions setting and set it to your preferences. Use **Navigation key**  to highlight your choice, then press **OK key**  [OK] to apply it to your phone.
  - **1 key**  [**Language**] Allows you to set a language for closed captions and subtitles for videos.
  - **2 key**  [**Text size**] Allows you to set the size of the text for closed captions and subtitles for videos.
  - **3 key**  [**Caption style**] Choose a caption style for closed captions and subtitles for videos.

## Mono audio

- 1 From the Accessibility menu screen, press **6 key**  [**Mono audio**] to allow you to set the phone to play the same sounds through both earpieces of a connected device so you can hear everything with just one ear.
- 2 Use **Navigation key**  to highlight **On** or **Off**, then press **OK key**  [**OK**].

## TTY mode




Allows you to attach a TTY device enabling you to communicate with parties also using a TTY device. A phone with TTY support is able to translate typed characters to voice. Voice can also be translated into characters and then displayed on the TTY.

- 1 From the Accessibility menu screen, press **7 key**  [**TTY mode**].
- 2 Use **Navigation key**  to highlight a TTY mode, then press **OK key**  [**OK**] to select it:
  - **TTY Off**: Users send and receive without TTY equipment.
  - **TTY Full**: Users who cannot talk or hear send and receive a text message through TTY equipment.
  - **TTY HCO**: Users who can hear but cannot talk send a text message and receive voice through TTY equipment.





- **TTY VCO:** Users who can talk but cannot hear can receive a text message and send voice through TTY equipment.

Mode	User	Capability	Transmission/ Receiving Mode	When making communications with a non-TTY terminal
TTY Off				
TTY Full	For hearing/ verbally impaired		Text message transmission, text message receiving	Operator required
TTY + HCO	For verbally impaired	Audible	Text message transmission, voice receiving	Operator required
TTY + VCO	For hearing impaired	Able to talk	Voice transmission, text message receiving	Operator required






## Hearing aid

- 1 From the Accessibility menu screen, press **8 key**  [**Hearing aid**].
- 2 Use **Navigation key**  to highlight **On** or **Off**, then press **OK key**  [**OK**].





# Sound & notifications

- 1 From the Home screen, press **OK key**  [**Menu**].
- 2 Press **9 key**  [**Settings** ].
- 3 Press **3 key**  [**Sound & notifications**].







## Volume

- 1 From the Sound & notifications menu screen, press **1 key**  [**Volume**].
- 2 Select a Volume setting and set the level to your preference using **Navigation key** , then press **OK key**  [**OK**].
  - **1 key**  [**Alert sounds**] Allows you to set the default volume level for alerts.
  - **2 key**  [**Media**] Allows you to set the default volume level for media.

## Sound with vibration







- 1 From the Sound & notifications menu screen, press **2 key**  [**Sound with vibration**].
- 2 Use **Navigation key**  to highlight **On** or **Off**, then press **OK key**  [**OK**] to select it.
- 3 Press **Clear key / Voice commands key**  to exit.

## Ringtones





- 1 From the Sound & notifications menu screen, press **3 key**  [**Ringtones**] to set the ringtone for calls.
- 2 Use **Navigation key**  to highlight a desired ringtone, then press **OK key**  [**OK**] to select it.
  - Press **Left soft key**  [**Play**] to listen to a highlighted ringtone.
  - Press **Right soft key**  [**Options**] to add or delete ringtones.
- 3 Press **Clear key / Voice commands key**  to exit.



## Notification sounds

- 1 From the Sound & notifications menu screen, press **4 key**  [**Notification sounds**] to set the sound played for new notifications.
- 2 Use **Navigation key**  to highlight a desired sound, then press **OK key**  [**OK**] to select it.
  - Press **Left soft key**  [**Play**] to listen to a highlighted sound.
  - Press **Right soft key**  [**Options**] to add or delete sound files.
- 3 Press **Clear key / Voice commands key**  to exit.

## Keypad sound

- 1 From the Sound & notifications menu screen, press **5 key**  [**Keypad sound**].
- 2 Use **Navigation key**  to highlight **On** or **Off**, then press **OK key**  [**OK**] to select it.
- 3 Press **Clear key / Voice commands key**  to exit.





## Emergency tone

Allows you to view emergency alerts and customize your emergency alerts settings.




From the Sound & notifications menu screen, press **6 key**  [**Emergency tone**].

- **Alert:** Allows you to set an alert tone same as the volume level on your phone.
- **Vibrate:** Enable this option to emit the vibration instead of providing an alert tone.
- **Off:** Allows you to disable the alert related with emergency dialing.




# Display

- 1 From the Home screen, press **OK key**  [**Menu**].
- 2 Press **9 key**  [**Settings** ].
- 3 Press **4 key**  [**Display**].






## Menu layout

- 1 From the Display menu screen, press **1 key**  [**Menu layout**] to display your Menu screen in a grid or list.
- 2 Use **Navigation key**  to highlight **Grid** or **List**, then press **OK key**  [**OK**] to select it.


## Brightness


- 1 From the Display menu screen, press **2 key**  [**Brightness**].
- 2 Use **Navigation key**  to adjust it, then press **OK key**  [**OK**].

## Wallpaper




- 1 From the Display menu screen, press **3 key**  [**Wallpaper**].
- 2 Select a Wallpaper type and highlight your preference using **Navigation key** , then press **OK key**  [**Select**] (crop and save the image, if necessary).
  - **1 key**  [**Wallpaper gallery**] Allows you to set your Home screen background. Select one of the available wallpaper images.
  - **2 key**  [**Gallery**] Allows you to set your Home screen background. Select an image from your Gallery.

## Display backlight




- 1 From the Display menu screen, press **4 key**  [**Display backlight**] to set the amount of time before the screen times out due to inactivity to conserve your battery power.

- 2 Use **Navigation key**  to highlight your choice, then press **OK key**  [OK].




## Key backlight

- 1 From the Display menu screen, press **5 key**  [**Key backlight**] to set how long the keypad remains lit.
- 2 Use **Navigation key**  to highlight your choice, then press **OK key**  [OK].





## Font type

- 1 From the Display menu screen, press **6 key**  [**Font type**] to set the font used for the phone.
- 2 Use **Navigation key**  to highlight your choice, then press **OK key**  [OK].

## Font size





- 1 From the Display menu screen, press **7 key**  [**Font size**] to set the size of the font used for the phone.
- 2 Use **Navigation key**  to highlight your choice, then press **OK key**  [OK].

## Clock





- 1 From the Display menu screen, press **8 key**  [**Clock**] to set the kind of clock displayed on the Home screen.
- 2 Use **Navigation key**  to highlight your choice, then press **OK key**  [OK].
  - Press **Left soft key**  [**Preview**] to see it first before applying the change.

# Phone settings


The Phone settings menu allows you to designate specific settings to customize how you use your phone.

- 1 From the Home screen, press **OK key**  [**Menu**].
- 2 Press **9 key**  [**Settings** ].
- 3 Press **5 key**  [**Phone settings**].







## Language

- 1 From the Phone settings menu screen, press **1 key**  [**Language**] to set the language for your phone's software.
- 2 Use **Navigation key**  to highlight your choice, then press **OK key**  [**OK**] to select it.
- 3 Press **Clear key / Voice commands key**  to exit.










## Key shortcuts

Shortcuts are available from the Home screen. Simply press **Navigation key**  up, down, right or left to open one. You can change the shortcut for each key and also change the shortcuts provided from the Shortcut menu (the Right Navigation key by default).

## Setting Navigation key shortcuts





- 1 From the Phone settings menu screen, press **2 key**  [**Key shortcuts**].
- 2 Use **Navigation key**  to highlight a shortcut key you want to set.
- 3 Press **Left soft key**  [**Set**] to display the available shortcuts. Use **Navigation key**  to highlight one, then press **OK key**  [**OK**].
- 4 Press **OK key**  [**Save**].

## Setting the shortcut menu shortcuts



- 1 From the Phone settings menu screen, press **2 key**  [Key shortcuts].
- 2 Use **Navigation key**  to highlight the key field set as **Shortcut menu**, then press **Left soft key**  [Set].
- 3 Use **Navigation key**  to highlight **Shortcut 1**, **Shortcut 2**, **Shortcut 3** or **Shortcut 4**, then press **Left soft key**  [Set].
- 4 Use **Navigation key**  to highlight an item, then press **OK key**  [OK] to set the shortcut.
- 5 Press **OK key**  [Save] to save the settings you changed.
- 6 To reset shortcuts to their default settings, press **Right soft key**  [Reset].

## SOS mode


During an emergency, press the SOS mode key 3 times to automatically send a message and call an emergency number. If you activate the mode by mistake, you can cancel it within 5 seconds with your phone.

- 1 From the Phone settings menu screen, press **3 key**  [SOS mode].
- 2 Select the security option you want to activate.
  - **1 key**  [Mode] Allows you to enable or disable the SOS mode.
  - **2 key**  [Emergency number] Allows you to set the emergency number.
  - **3 key**  [Legal info] Allows you to read the legal documents for SOS mode.

## Storage

- 1 From the Phone settings menu screen, press **4 key**  **[Storage]** to view your phone's storage memory information (in text and on a bar graph).
- 2 Press **1 key**  **[Phone]** to view information for used memory, total memory, available memory and the amount of memory used by specific apps. When a microSD card is inserted in the phone, the Storage menu displays additional options.

- **SD card** Allows you to view data saved in your external memory.





From the Storage menu screen, press **Right soft key**  **[Options]**.

- **Eject SD card** Allows you to unmount your microSD card for safe removal from your phone.
- **Mount SD card** Allows you to mount an inserted microSD card.




## USB connection

You can connect your phone to your PC to charge it and transfer items to the PC from the phone (and vice versa).

### Transferring music, photos, and videos

- 1 From the Phone settings menu screen, press **5 key**  **[USB connection]**.
- 2 Use **Navigation key**  to highlight **Charging**, **File transfer**, **Photo transfer**, or **MIDI device**, then press **OK key**  **[OK]**.
- 3 Connect your phone to a PC using the USB cable included with your phone.
- 4 You can now view the mass storage content on your PC and transfer files.
- 5 After transferring files, return to the Phone settings menu, press **5 key**  **[USB connection]** and change the setting back to **Charging** before disconnecting the USB cable.






## Location

- 1 From the Phone settings menu screen, press **6 key**  **[Location]** to set the GPS (Global Positioning System: Satellite assisted information system) mode.
- 2 Use **Navigation key**  to highlight **On** or **Off**, then press **OK key**  **[OK]**.





- GPS satellite signals are not always received by the phone, especially under bad atmospheric and environmental conditions, indoors, etc.
- When in Airplane Mode, services supporting the location functionality will be suspended.

## Security






- 1 From the Phone settings menu screen, press **7 key**  **[Security]** to allow you to secure your phone electronically by PIN, encryption or SIM card lock.
- 2 Select the security option you want to activate.
  - **1 key**  **[Screen lock]** Allows you to set a PIN to secure your phone from unintentional and/or unauthorized use.
  - **2 key**  **[Encrypt phone]** Allows you to encrypt or decrypt your phone data (accounts, settings, media files and other files).
  - **3 key**  **[Encrypt SD card]** Allows you to encrypt or decrypt external microSD card data. Encrypted data is not accessible on other devices.
  - **4 key**  **[Certificate management]** Allows you to manage your secure certificates.
    - **Trusted credentials** Shows system root CA certificates and user added CA certificates.
    - **Install from storage** Allows you to install a secure certificate from storage.

- **Clear credentials** Allows you to delete user added secure certificates and related credentials.

## Accounts

- 1 From the Phone settings menu screen, press **8 key**  [**Accounts**].
- 2 Press **Right soft key**  [**Options**] to access **Add account** or **Auto-sync data**.



## Email

- 1 From the Phone settings menu screen, press **8 key**  [**Accounts**].
- 2 Press **1 key**  [**Email**].
  - Use **Navigation key**  to highlight an account, press **OK key**  [**Select**], then set the Sync settings to **On** or **Off**.
  - Press **Right soft key**  [**Options**] to access **Sync now** or **Remove account**.




- This menu appears after you add an account.

## Reset

- 1 From the Phone settings menu screen, press **9 key**  [**Reset**].
- 2 Select the type of reset you want to perform.
  - Press **1 key**  [**Factory data reset**] Allows you to erase all of the data on the phone, an inserted MicroSD card, or both the phone and the card.







## Date & time

- 1 From the Phone settings menu screen, press **0** key  [**Date & time**].
- 2 Select the date and time options and set them as desired.







- By default the **Auto-date & time** and **Auto-time zone** options are enabled. To activate the manual setting option(s), turn off the Auto option(s), then select **Set date**, **Set time** and/or **Select time zone**.
  - Turn on the **Auto-date & time** option to use the date/time provided by the network, or select **Set date** and/or **Set time** to manually set them.
  - Turn on the **Auto-time zone** option to use the time zone provided by the network, or select **Select time zone** to set it manually.
  - **Time format**: Select the 24-hour option to display the time using the 24-hour format (e.g., 13:00 instead of 1:00 PM).

## Call settings

- 1 From the Home screen, press **OK** key  [**Menu**].
- 2 Press **9** key  [**Settings** ].
- 3 Press **6** key  [**Call settings**].





## Answer options

- 1 From the Call settings menu screen, press **1 key**  [**Answer options**] to set how the phone will answer an incoming call.
- 2 Use **Navigation key**  to select the setting(s) you want to use, then press **OK key**  [**Select**].
- 3 Press **Left soft key**  [**Save**].








- **Auto with handsfree** is available when any external device is connected to your phone or speaker is set to on.






## Decline with message

- 1 From the Call settings menu screen, press **2 key**  [**Decline with message**] to view, edit, add and delete your quick messages that can be used when you want to ignore a call (e.g., during a meeting).
- 2 Select an action.
  - Use **Navigation key**  to highlight a quick message, then press **OK key**  [**Edit**].
  - Press **Right soft key**  [**Options**] to access **Delete** and **New**.




## Speed dial

- 1 From the Call settings menu screen, press **3 key**  [**Speed dial**] to add, view, change, move and remove your speed dial numbers.
- 2 Use **Navigation key**  to highlight a speed dial.
  - Press **OK key**  [**Set**] to set up a new speed dial from numbers in your Contacts list.
  - Press **OK key**  [**Change**] to change an existing speed dial.
  - Press **Right soft key**  [**Options**] to access **Move**, **Remove** and **Remove all**.


## Voicemail

- 1 From the Call settings menu screen, press **4 key**  [**Voicemail**].
- 2 Select a voicemail option.
  - Press **1 key**  [**Voicemail service**] to view the voicemail service carrier.
  - Press **2 key**  [**Setup**] to manually enter the access number for Voicemail Service. This number should be only used when a VMS (Voicemail Service) access number is not provided by the network.
  - Press **3 key**  [**Notification sound**] to set the sound played when new voicemail arrives.
  - Press **4 key**  [**Vibrate**] to set when to vibrate for voicemail notifications.


## Blocked calls

- 1 From the Call settings menu screen, press **5 key**  [**Blocked calls**] to allow you to view and manage your Blocked calls list.
- 2 Select the action you want.
  - Press **OK key**  [**Add**] to add numbers from Contacts, Recent calls or manually enter a number.
  - Press **Right soft key**  [**Options**] to access **Remove** and **Edit**.


## Call restrictions

From the Call settings menu screen, press **6 key**  [**Call restrictions**] to set for call restrictions feature.


## Auto retry

From the Call settings menu screen, press **7 key**  [**Auto retry**] to set for auto retry feature.




## DTMF tones

From the Call settings menu screen, press **8 key**  [DTMF tones] to set for DTMF tones feature.

## Voice privacy





From the Call settings menu screen, press **9 key**  [Voice privacy] to set for voice privacy feature.

## Call duration

- 1 From the Call settings menu screen, press **0 key**  [Call duration] to view call durations for the last call, outgoing calls, incoming calls and all calls.
- 2 Use **Navigation key**  to highlight a call type, then press **OK key**  [Reset] to reset its counter to zero.





## About phone

View information about your phone including **My phone number**, **Status**, **Network**, **Battery level**, **Hardware info**, **Software info**, and **Legal info**.

- 1 From the Home screen, press **OK key**  [Menu].
- 2 Press **9 key**  [Settings ].
- 3 Press **7 key**  [About phone].

## Update center







The Update center menu allows you to check and install the latest version of the app or software provided by LG.

- 1 From the Home screen, press **OK key**  [Menu].
- 2 Press **9 key**  [Settings ].
- 3 Press **8 key**  [Update center].

# LG mobile phone software update via Over the-Air (OTA)

This feature allows you to conveniently update your phone's software to a newer version via OTA, without connecting a USB cable. This feature will only be available if and when LG makes a newer firmware version available for your device.

First check the software version on your mobile phone:

- 1 From the Home screen, press **OK key**  [**Menu**].
- 2 Press **9 key**  [**Settings** ].
- 3 Press **8 key**  [**Update center**] and then press **2 key**  [**Software update**].
- 4 Press **1 key**  [**Check now for update**] to perform the phone software update.




04

## **Appendix**

## Q&A

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 customer service.

<p><b>Q</b> How do I view the list of outgoing calls, incoming calls, and missed calls?</p> <p><b>A</b> Press <b>Send key</b> .</p>	<p><b>Q</b> Why won't the LCD turn on?</p> <p><b>A</b> Remove the battery, and place it back. Then turn on the power. If there is no change, fully charge the battery and try again.</p>
<p><b>Q</b> Why is the connection inconsistent or not audible in certain areas?</p> <p><b>A</b> When the frequency environment is unstable in a certain area, connection may be inconsistent and inaudible. Relocate to another area and try again.</p>	<p><b>Q</b> Why does the phone heat up?</p> <p><b>A</b> 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.</p>
<p><b>Q</b> Why is the connection inconsistent or abruptly disconnects even when established?</p> <p><b>A</b> 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.</p>	<p><b>Q</b> Why does the battery run out so quickly during normal use?</p> <p><b>A</b> This may be due to the user environment, a large number of calls, or a weak signal.</p>
	<p><b>Q</b> Why is no number dialed when an contact list entry is recalled?</p> <p><b>A</b> Check that the number has been stored correctly by using the contact list Search feature. Restore them, if necessary.</p>

# Anti-Theft Guide

You can set up your device to prevent other people from using it if it's been reset to factory settings without your permission. For example, if your device is lost, stolen, or wiped, only someone with your Google account or screen lock information can use the device.

All you need to make sure your device is protected is:

- Set a screen lock: If your device is lost or stolen but you have a screen lock set, the device can't be erased using the Settings menu unless your screen is unlocked.
- Add your Google account on your device: If your device is wiped but you have your Google account on it, the device can't finish the setup process until your Google account information is entered again.

After your device is protected, you'll need to either unlock your screen or enter your Google account password if you need to do a factory reset. This ensures that you or someone you trust is doing the reset.



- Do not forget your Google account and password you had added to your device prior to performing a factory reset. If you can't provide the account information during the setup process, you won't be able to use the device at all after performing the factory reset.



# More information

## Open Source Software Notice Information

To obtain the source code under GPL, LGPL, MPL, and other open source licenses, that is contained in this product, please visit <http://opensource.lge.com>.

In addition to the source code, all referred license terms, warranty disclaimers and copyright notices are available for download.

LG Electronics will also provide open source code to you on CD-ROM for a charge covering the cost of performing such distribution (such as the cost of media, shipping, and handling) upon email request to [opensource@lge.com](mailto:opensource@lge.com).

This offer is valid for a period of three years after our last shipment of this product. This offer is valid to anyone in receipt of this information.

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05

**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



- Never place your phone in a microwave oven as it will cause the battery to explode.



- When riding in a car, do not leave your phone or set up the hands-free kit near the air bag. If wireless equipment is improperly installed and the air bag is deployed, you may be seriously injured.
- Do not dispose of your phone near fire or with hazardous or flammable waste. You should dispose of your phone in accordance with all applicable laws.



- Do not use the phone in areas where its use is prohibited. (For example: aircraft)



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



- Do not use harsh chemicals (such as alcohol, benzene, thinners, etc.) or detergents to clean your phone. This could cause a fire.



- Do not drop, strike, or shake your phone severely. It may harm the internal circuit boards of the phone.



- Do not use your phone in high explosive areas as the phone may generate sparks.



- Do not damage the power cord by bending, twisting, pulling, or heating. Do not use the plug if it is loose as it may cause electric shock or fire.
- Do not place any heavy items on the power cord. Do not allow the power cord to be crimped as it may cause electric shock or fire.
- Do not handle the phone with wet hands while it is being charged. It may cause an electric shock or seriously damage your phone.



- Do not disassemble the phone.
- Do not place or answer calls while charging the phone as it may short-circuit the phone and/or cause electric shock or fire.
- Do not attempt to repair or modify the device yourself.
- You should never attempt to open or disassemble this device yourself and doing so may cause damage that voids your warranty.



- Make sure that no sharp-edged items, such as animal's teeth or nails, come into contact with the battery. This could cause a fire.



- Be careful that children do not swallow any parts (such as earphone, connection parts of the phone, etc.) This could cause asphyxiation or suffocation resulting in serious injury or death.



- Unplug the power cord and charger during lightning storms to avoid electric shock or fire.



- Only use chargers provided by LG. The warranty will not be applied to products provided by other suppliers.
- Only authorized personnel should service the phone and its accessories. Faulty installation or service may result in accidents and consequently invalidate the warranty.



- An emergency call can be made only within a service area. For an emergency call, make sure that you are within a service area and that the phone is turned on.

- Your phone is an electronic device that generates heat during normal operation. Extremely prolonged, direct skin contact in the absence of adequate ventilation may result in discomfort or minor burns. Therefore, use care when handling your phone during or immediately after operation.
- Use and store your phone in temperatures between 0°C/32°F and 40°C/104°F, if possible. Exposing your phone to extremely low or high temperatures may result in damage, malfunction, or even explosion.

## HAC statement

This device 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 device that have not been tested yet for use with hearing aids. It is important to try the different features of this device 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. This mobile phone has a Hearing Aid Mode that, when activated, may reduce interference with some hearing aid models.

## FCC RF Exposure Information

**WARNING! Read this information before operating the phone.**

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

## Body-worn Operation

This device was tested for typical use with the back of the device kept 0.39 inches (1.0 cm) from the body. To comply with FCC RF exposure requirements, a minimum separation distance of 0.39 inches (1.0 cm) must be maintained between the user's body and the back of the device.

Any belt-clips, holsters, and similar accessories containing metallic components may not be used. Avoid the use of accessories that cannot maintain 0.39 inches (1.0 cm) distance between the user's body and the back of the device and have not been tested for compliance with FCC RF exposure limits.

## Consumer Information About Radio Frequency Emissions

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

### Are wireless phones safe?

Scientific research on the subject of wireless phones and radio frequency (“RF”) energy has been conducted worldwide for many years, and continues. In the United States, the Food and Drug Administration (“FDA”) and the Federal Communications Commission (“FCC”) set policies and procedures for wireless phones. The FDA issued a website publication on health issues related to cell phone usage where it states, “The scientific community at large ... believes that the weight of scientific evidence does not show an association between exposure to radiofrequency (RF) from cell phones and adverse health outcomes. Still the scientific community does recommend conducting additional research to address gaps in knowledge. That research is being conducted around the world and FDA continues to monitor developments in this field. You can access the joint FDA/FCC website at <http://www.fda.gov> (under “c” in the subject index, select Cell Phones > Research). You can also contact the FDA toll-free at (888) 463-6332 or (888) INFO-FDA.

In June 2000, the FDA entered into a cooperative research and development agreement through which additional scientific research is being conducted. The FCC issued its own website publication stating that “there is no scientific evidence that proves that wireless phone usage can lead to cancer or a variety of other problems, including headaches, dizziness or memory loss.” This publication is available at <http://www.fcc.gov/cgb/cellular.html> or through the FCC at (888) 225-5322 or (888) CALL-FCC.

### What does “SAR” mean?

In 1996, the FCC, working with the FDA, the U.S. Environmental Protection Agency, and other agencies, established RF exposure safety guidelines for wireless phones in the United States. Before a wireless phone model is available for sale to the public, it must be tested by the manufacturer and certified to the FCC that it does not exceed limits established by the FCC. One of these limits is expressed as a Specific Absorption Rate, or “SAR.” SAR is a

measure of the rate of absorption of RF energy in the body. Tests for SAR are conducted with the phone transmitting at its highest power level in all tested frequency bands. Since 1996, the FCC has required that the SAR of handheld wireless phones not exceed 1.6 watts per kilogram, averaged over one gram of tissue. Although the SAR is determined at the highest power level, the actual SAR value of a wireless phone while operating can be less than the reported SAR value. This is because the SAR value may vary from call to call, depending on factors such as proximity to a cell site, the proximity of the phone to the body while in use, and the use of hands-free devices.

For more information about SARs, visit the FCC website at <https://www.fcc.gov/consumers/guides/specific-absorption-rate-sar-cell-phones-what-it-means-you>. You may also wish to contact the manufacturer of your phone.

### **Can I minimize my RF exposure?**

If you are concerned about RF, there are several simple steps you can take to minimize your RF exposure. You can, of course, reduce your talk time.

You can place more distance between your body and the source of the RF, as the exposure level drops off dramatically with distance. The FDA/FCC website states that "hands-free kits can be used with wireless phones for convenience and comfort. These systems reduce the absorption of RF energy in the head because the phone, which is the source of the RF emissions, will not be placed against the head. On the other hand, if the phone is mounted against the waist or other part of the body during use, then that part of the body will absorb more RF energy. Wireless phones marketed in the U.S. are required to meet safety requirements regardless of whether they are used against the head or against the body. Either configuration should result in compliance with the safety limit." Also, if you use your wireless phone while in a car, you can use a phone with an antenna on the outside of the vehicle. You should also read and follow your wireless phone manufacturer's instructions for the safe operation of your phone.

### **Do wireless phones pose any special risks to children?**

The FDA/FCC website states that "the scientific evidence does not show a danger to users of wireless communication devices, including children." The FDA/FCC website further states that "some groups sponsored by other national governments have advised that children be discouraged from using wireless phones at all." For example, the Stewart Report from the



United Kingdom [“UK”] made such a recommendation in December 2000. In this report a group of independent experts noted that no evidence exists that using a cell phone causes brain tumors or other ill effects. [The UK’s] recommendation to limit cell phone use by children was strictly precautionary; it was not based on scientific evidence that any health hazard exists. A copy of the UK’s leaflet is available at <http://www.dh.gov.uk> (search “mobile”), or you can write to: NRPB, Chilton, Didcot, Oxon OX11 0RQ, United Kingdom. Copies of the UK’s annual reports on mobile phones and RF are available online at <http://www.hpa.org.uk/radiation/> (search “mobile”). Parents who wish to reduce their children’s RF exposure may choose to restrict their children’s wireless phone use.

### **Where can I get further information about RF emissions?**

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

#### **U.S. Food and Drug Administration**

FDA Consumer magazine

November-December 2000

Telephone: (888) INFO-FDA

<http://www.fda.gov> (Under “c” in the subject index, select Cell Phones > Research.)

#### **U.S. Federal Communications Commission**

445 12th Street, S.W.

Washington, D.C. 20554

Telephone: (888) 225-5322

<http://www.fcc.gov/oet/rfsafety>

#### **Royal Society of Canada Expert Panels on Potential Health Risks of Radio Frequency Fields from Wireless Telecommunication Devices**

283 Sparks Street

Ottawa, Ontario K1R 7X9

Canada

Telephone: (613) 991-6990

[http://www.rsc.ca/index.php?page=Expert\\_Panels\\_RF&Lang\\_id=120](http://www.rsc.ca/index.php?page=Expert_Panels_RF&Lang_id=120)

### **World Health Organization**

Avenue Appia 20

1211 Geneva 27

Switzerland

Telephone: 011 41 22 791 21 11

<http://www.who.int/mediacenter/factsheets/fs193/en/>

### **International Commission on Non-Ionizing Radiation Protection**

c/o Bundesamt für Strahlenschutz

Ingolstaedter Landstr. 1

85764 Oberschleissheim

Germany

Telephone: 011 49 1888 333 2156

<http://www.icnirp.de>

### **American National Standards Institute**

1819 L Street, N.W., 6th Floor

Washington, D.C. 20036

Telephone: (202) 293-8020

<http://www.ansi.org>

### **National Council on Radiation Protection and Measurements**

7910 Woodmont Avenue, Suite 800

Bethesda, MD 20814-3095

Telephone: (301) 657-2652

<http://www.ncrponline.org>

### **Engineering in Medicine and Biology Society, Committee on Man and Radiation (COMAR) of the Institute of Electrical and Electronics Engineers**

<http://ewh.ieee.org/soc/embs/comar/>

## Consumer Information on SAR

### (Specific Absorption Rate)

This model device meets the government's requirements for exposure to radio waves. Your wireless device 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 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 device 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 device while operating can be well below the maximum value. Because the device 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 device 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.

While there may be differences between SAR levels of various devices and at various positions, they all meet the government requirement for safe exposure.

The FCC has granted an Equipment Authorization for this model device with all reported SAR levels evaluated as in compliance with the FCC RF emission guidelines. SAR information on this model device 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 ZNFL125DL.

Additionally, the highest SAR values can also be found on the LG website: <https://www.lg.com/global/support/sar/sar>.

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 hearingaids. The intent of the HAC Act is to ensure reasonable access to telecommunications services for persons with hearing disabilities. While some wireless phones are used near some hearing devices (hearing aids and cochlear implants), users may detect a buzzing, humming, or whining noise. Some hearing devices are more immune than others to this interference noise, and phones also vary in the amount of interference they generate.

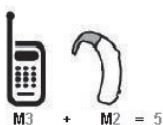
The wireless telephone industry has developed a rating system for wireless phones, to assist hearing device users to find phones that may be compatible with their hearing devices. Not all phones have been rated. Phones that are rated have the rating on their box or a label located on the box.

The ratings are not guarantees. Results will vary depending on the user's hearing device and hearing loss. If your hearing device happens to be vulnerable to interference, you may not be able to use a rated phone successfully. Trying out the phone with your hearing device is the best way to evaluate it for your personal needs.

M-Ratings: Phones rated M3 or M4 meet FCC requirements and are likely to generate less interference to hearing devices than phones that are not labeled. M4 is the better/higher of the two ratings. T-Ratings: Phones rated T3 or T4 meet FCC requirements and are likely to generate less interference to hearing devices than phones that are not labeled. T4 is the better/ higher of the two ratings.

Hearing devices may also be rated. Your hearing device manufacturer or hearing health professional may help you find this rating. Higher ratings mean that the hearing device is relatively immune to interference noise. The hearing aid and wireless phone rating values are then added together.

A sum of 5 is considered acceptable for normal use. A sum of 6 is considered for best use.



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

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

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

## **For information about hearing aids and digital wireless phones**

### **Wireless Phones and Hearing Aid Accessibility**

*<http://www.accesswireless.org/>*

### **Gallaudet University, RERC**

*<http://tap.gallaudet.edu/Voice/>*

### **FCC Hearing Aid Compatibility and Volume Control**

*<https://www.fcc.gov/general/hearing-aid-compatibility-and-volume-control>*

### **The Hearing Aid Compatibility FCC Order**

*[http://hraunfoss.fcc.gov/edocs\\_public/attachmatch/FCC-03-168A1.pdf](http://hraunfoss.fcc.gov/edocs_public/attachmatch/FCC-03-168A1.pdf)*

### **Hearing Loss Association of America [HLAA]**

*<http://hearingloss.org/content/telephones-and-mobile-devices>*

## **Caution:**

### **Avoid potential hearing loss.**

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

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

- Set the volume in a quiet environment and select the lowest volume at which you can hear adequately.
- When using headphones, turn the volume down if you cannot hear the people speaking near you or if the person sitting next to you can hear what you are listening to.
- Do not turn the volume up to block out noisy surroundings. If you choose to listen to your portable device in a noisy environment, use noise-canceling 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.

## TIA Safety Information

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

### Exposure to Radio Frequency Signal

Your wireless handheld portable phone is a low power radio transmitter and receiver. When ON, it receives and sends out Radio Frequency (RF) signals.

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

ANSI C95.1 (1992) \*

NCRP Report 86 (1986)

ICNIRP (1996)

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

Those standards were based on comprehensive and periodic evaluations of the relevant scientific literature. For example, over 120 scientists, engineers, and physicians from universities, government health agencies, and industry reviewed the available body of research to develop the ANSI Standard (C95.1). The design of your phone complies with the FCC guidelines (and those standards).

## Tips on Efficient Operation

For your phone to operate most efficiently:

Don't touch the antenna unnecessarily when the phone is in use. Contact with the antenna affects call quality and may cause the phone to operate at a higher power level than otherwise needed.

## Electronic Devices

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

## Pacemakers

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

Persons with pacemakers:

- Should ALWAYS keep the phone more than six (6) inches from their pacemaker when the phone is turned ON;
- Should not carry the phone in a breast pocket;
- Should use the ear opposite the pacemaker to minimize the potential for interference;
- Should turn the phone OFF immediately if there is any reason to suspect that interference is taking place.

## Hearing Aids

Some digital wireless phones may interfere with some hearing aids. In the event of such interference, you may want to consult your service provider (or call the customer service line to discuss alternatives).

## Other Medical Devices

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



## Health Care Facilities

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

## Vehicles

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

## Posted Facilities

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

## Aircraft

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

## Blasting Areas

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

## Potentially Explosive Atmosphere

Turn your phone OFF when in any area with a potentially explosive atmosphere and obey all signs and instructions. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death. Areas with a potentially explosive atmosphere are often, but not always marked clearly. Potential areas may include: fueling areas (such as gasoline stations); below deck on boats; fuel or chemical transfer or storage facilities; vehicles using liquefied petroleum gas (such as propane or butane); areas where the air contains chemicals or particles (such as grain, dust, or metal powders); and any other area where you would normally be advised to turn off your vehicle engine.

## For Vehicles Equipped with an Air Bag

An air bag inflates with great force. DO NOT place objects, including either installed or portable wireless equipment, in the area over the air bag or in the air bag deployment area. If in-vehicle wireless equipment is improperly installed and the air bag inflates, serious injury could result.

### Part 15.19 statement

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

### Part 15.21 statement

Changes or modifications that are not expressly approved by the manufacturer for compliance could void the user's authority to operate the equipment.

### Part 15.105 statement

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio 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.

## Safety Information

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

### Caution

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

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

## Charger and Adapter Safety

- The charger and adapter are intended for indoor use only.
- Insert the battery charger vertically into the wall power socket.

- Only use the LG-approved battery charger. Otherwise, you may cause serious damage to your phone.
- Use the correct adapter for your phone when using the battery charger abroad.

## Battery Information and Care

- Always unplug the charger from the wall socket after the device is fully charged to save unnecessary power consumption of the charger.
- Please read the manual of specified charger about charging method.
- Do not damage the power cord by bending, twisting, or heating. Do not use the plug if it is loose as it may cause electric shock or fire.
- Do not place any heavy items on the power cord. Do not allow the power cord to be crimped as it may cause electric shock or fire.
- Unplug the power cord prior to cleaning your phone, and clean the power plug pin when it's dirty. When using the power plug, ensure that it's firmly connected. If not, it may cause excessive heat or fire. If you put your phone in a pocket or bag without covering the receptacle of the phone (power plug pin), metallic articles (such as a coin, paperclip or pen) may short-circuit the phone. Always cover the receptacle when not in use.
- Recharge the battery after long periods of non-use to maximize battery life. Battery life will vary due to usage pattern and environmental conditions.
- Improper handling of the charging port, as well as the use of an incompatible charger, may cause damage or defect to your device.
- Charging temperature range is regulated between 0°C/32°F and 40°C/104°F. Do not charge the battery out of recommended temperature range. Charging out of recommended range might cause the generating heat or serious damage of battery. And also, it might cause the deterioration of battery's characteristics and cycle life.
- Do not use or leave the battery under the blazing sun or in heated car by sunshine. The battery may generate heat, smoke or flame. And also, it might cause the deterioration of battery's characteristics or cycle life.
- The battery pack has protection circuit to avoid the danger. Do not use nearby the place where generates static electricity more than 100V which gives damage to the protection circuit. If the protection circuit were broken, the battery would generate smoke, rupture or flame.

- If the skin or clothes are smeared with liquid from the battery, wash with fresh water. It may cause the skin inflammation.
- Please take your phone to an authorized service center immediately if this occurs.
- Do not handle the phone with wet hands while it is being charged. It may cause an electric shock or seriously damage your phone.
- Do not place or answer calls while charging the phone as it may short-circuit the phone and/or cause electric shock or fire.
- The charger and adapter are intended for indoor use only.
- Talking on your phone for a long period of time may reduce call quality due to heat generated during use.

## Explosion, Shock, and Fire Hazards

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

## General Notice

- 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 immerse your phone in water, liquid, or expose to high humidity.

Immediately, take it to an LG Authorized Service Center.

- Do not paint your phone.
- The data saved in your phone might be deleted due to careless use, repair of the phone, or upgrade of the software. Please backup your important phone numbers. (Ringtones, text messages, voice messages, pictures, and videos could also be deleted.) The manufacturer is not liable for damage due to the loss of data.
- When you use the phone in public places, set the ringtone to vibration so you don't disturb others.
- Do not turn your phone on or off when putting it to your ear.
- Use accessories, such as earphones and headsets, with caution. Ensure that cables are tucked away safely and do not touch the antenna unnecessarily.

## FDA Consumer Update



The U.S. Food and Drug Administration's Center for Devices and Radiological Health Consumer Update on Mobile Phones:

### 1. Do wireless phones pose a health hazard?

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

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

Under the law, the FDA does not review the safety of radiation-emitting consumer products such as wireless phones before they can be sold, as it does with new drugs or medical devices. However, the agency has authority to take action if wireless phones are shown to emit Radio Frequency (RF) energy at a level that is hazardous to the user. In such a case, the FDA could require the manufacturers of wireless phones to notify users of the health hazard and to repair, replace, or recall the phones so that the hazard no longer exists. Although the existing scientific data 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 Radio Frequency (RF) energy because of the short distance between the phone and the user’s head. These RF exposures are limited by FCC safety guidelines that were developed with the advice of the FDA and other federal health and safety agencies. When the phone is located at greater distances from the user, the exposure to RF is drastically lower because a person’s RF exposure decreases rapidly with increasing distance from the source. The so-called “cordless phones,” which have a base unit connected to the telephone wiring in a house, typically operate at far lower power levels, and thus produce RF exposures far below the FCC safety limits.

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

The research done thus far has produced conflicting results, and many studies have suffered from flaws in their research methods. Animal experiments investigating the effects of Radio Frequency (RF) energy exposures characteristic of wireless phones have yielded conflicting results that often cannot be repeated in other laboratories. A few animal studies, however, have suggested that low levels of RF could accelerate the development of cancer in laboratory animals. However, many of the studies that showed increased tumor development used animals that had been genetically engineered or treated with cancer-causing chemicals so as to be pre-disposed to develop cancer in the absence of RF exposure. Other studies exposed the animals to RF for up to 22 hours per day. These conditions are not similar to the conditions under which people use wireless phones, so we do not know with certainty what the results of such studies mean for human health. Three large epidemiology studies have been published since December 2000. Between them, the studies investigated any possible association between the use of wireless phones and primary brain cancer, glioma, meningioma, or acoustic neuroma, tumors of the brain or salivary gland, leukemia, or other cancers. None of the studies demonstrated the existence of any harmful health effects from wireless phone RF exposures. However, none of the studies can answer



questions about long-term exposures, since the average period of phone use in these studies was around three years.

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

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

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

The FDA is working with the U.S. National Toxicology Program and with groups of investigators around the world to ensure that high priority animal studies are conducted to address important questions about the effects of exposure to Radio Frequency (RF) energy.

The FDA has been a leading participant in the World Health Organization International Electro Magnetic Fields (EMF) Project since its inception in 1996. An influential result of this work has been the development of a detailed agenda of research needs that has driven the establishment of new research programs around the world. The project has also helped develop a series of public information documents on EMF issues. The FDA and the Cellular Telecommunications & Internet Association (CTIA) have a formal Cooperative Research And Development Agreement (CRADA) to do research on wireless phone safety. The FDA provides the scientific oversight, obtaining input from experts in government, industry, and academic organizations. CTIA-funded research is conducted through contracts with independent investigators. The initial research will include both laboratory studies and studies of wireless phone users. The CRADA will also include a broad assessment of additional research needs in the context of the latest research developments around the world.

## **7. How can I find out how much Radio Frequency energy exposure I can get by using my wireless phone?**

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

## **8. What has the FDA done to measure the Radio Frequency energy coming from wireless phones?**

The Institute of Electrical and Electronic Engineers (IEEE) is developing a technical standard for measuring the Radio Frequency (RF) energy exposure from wireless phones and other wireless handsets with the participation and leadership of FDA scientists and engineers. The standard, "Recommended Practice for Determining the Spatial-Peak Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices: Experimental Techniques", sets forth the first consistent test methodology for measuring the rate at which RF is deposited in the heads of wireless phone users. The test method uses a tissue-simulating model of the human head.

Standardized SAR test methodology is expected to greatly improve the consistency of measurements made at different laboratories on the same phone. SAR is the measurement of the amount of energy absorbed in tissue, either by the whole body or a small part of the body. It is measured in watts/kg (or milliwatts/g) of matter. This measurement is used to determine whether a wireless phone complies with safety guidelines.

## **9. What steps can I take to reduce my exposure to Radio Frequency energy from my wireless phone?**

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

## **10. What about children using wireless phones?**

The scientific evidence does not show a danger to users of wireless phones, including children and teenagers. If you want to take steps to lower exposure to Radio Frequency (RF) energy, the measures described above would apply to children and teenagers using wireless phones. Reducing the time of wireless phone use and increasing the distance between the user and the RF source will reduce RF exposure. Some groups sponsored by other national governments have advised that children be discouraged from using wireless phones at all. For example, the government in the United Kingdom distributed leaflets containing such a recommendation in December 2000.

They noted that no evidence exists that using a wireless phone causes brain tumors or other ill effects. Their recommendation to limit wireless phone use by children was strictly precautionary; it was not based on scientific evidence that any health hazard exists.

## **11. What about wireless phone interference with medical equipment?**

Radio Frequency (RF) energy from wireless phones can interact with some electronic devices. For this reason, the FDA helped develop a detailed test method to measure Electro Magnetic Interference (EMI) of implanted cardiac pacemakers and defibrillators from wireless telephones. This test method is

now part of a standard sponsored by the Association for the Advancement of Medical Instrumentation (AAMI). The final draft, a joint effort by the FDA, medical device manufacturers, and many other groups, was completed in late 2000. This standard will allow manufacturers to ensure that cardiac pacemakers and defibrillators are safe from wireless phone EMI.

The FDA has tested hearing aids for interference from handheld wireless phones and helped develop a voluntary standard sponsored by the Institute of Electrical and Electronic Engineers (IEEE). This standard specifies test methods and performance requirements for hearing aids and wireless phones so that no interference occurs when a person uses a "compatible" phone and a "compatible" hearing aid at the same time. This standard was approved by the IEEE in 2000.

The FDA continues to monitor the use of wireless phones for possible interactions with other medical devices. Should harmful interference be found to occur, the FDA will conduct testing to assess the interference and work to resolve the problem.

## 12. Where can I find additional information?

For additional information, please refer to the following resources: FDA web page on wireless phones

(<http://www.fda.gov/Radiation-EmittingProducts/RadiationEmittingProductsandProcedures/HomeBusinessandEntertainment/CellPhones/default.htm>)

Federal Communications Commission (FCC) RF Safety Program

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

International Commission on Non-Ionizing Radiation Protection

(<http://www.icnirp.de>)

World Health Organization (WHO) International EMF Project

(<http://www.who.int/emf>)

National Radiological Protection Board (UK)

(<http://www.hpa.org.uk/radiation/>)

## Driving

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

- Give full attention to driving -- driving safely is your first responsibility;

- Use hands-free operation, if available;
- Pull off the road and park before making or answering a call if driving conditions or the law require it.

## 10 Driver Safety Tips

Your wireless phone gives you the powerful ability to communicate by voice almost anywhere, anytime. An important responsibility accompanies the benefits of wireless phones, one that every user must uphold. When operating a car, driving is your first responsibility. When using your wireless phone behind the wheel of a car, practice good common sense and remember the following tips:

1. Get to know your wireless phone and its features such as speed dial and redial. Carefully read your instruction manual and learn to take advantage of valuable features most phones offer, including automatic redial and memory. Also, work to memorize the phone keypad so you can use the speed dial function without taking your attention off the road.
2. When available, use a hands-free device. A number of hands-free wireless phone accessories are readily available today. Whether you choose an installed mounted device for your wireless phone or a speaker phone accessory, take advantage of these devices if available to you.
3. Make sure you place your wireless phone within easy reach and where you can reach it without removing your eyes from the road. If you get an incoming call at an inconvenient time, if possible, let your voicemail answer it for you.
4. Suspend conversations during hazardous driving conditions or situations. Let the person you are speaking with know you are driving; if necessary, suspend the call in heavy traffic or hazardous weather conditions. Rain, sleet, snow, and ice can be hazardous, but so is heavy traffic. As a driver, your first responsibility is to pay attention to the road.
5. Don't take notes or look up phone numbers while driving. If you are reading an address book or business card, or writing a "to-do" list while driving a car, you are not watching where you are going. It is common sense. Do not get caught in a dangerous situation because you are reading or writing and not paying attention to the road or nearby vehicles.
6. Dial sensibly and assess the traffic; if possible, place calls when you are not moving or before pulling into traffic. Try to plan your calls before you begin your trip or attempt to coincide your calls with times you may be stopped at a stop

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

7. Do not engage in stressful or emotional conversations that may be distracting. Stressful or emotional conversations and driving do not mix; they are distracting and even dangerous when you are behind the wheel of a car. Make people you are talking with aware you are driving and if necessary, suspend conversations which have the potential to divert your attention from the road.
8. Use your wireless phone to call for help. Your wireless phone is one of the greatest tools you can own to protect yourself and your family in dangerous situations -- with your phone at your side, help is only three numbers away. Dial 911 or other local emergency number in the case of fire, traffic accident, road hazard, or medical emergency. Remember, it's a free call on your wireless phone!
9. Use your wireless phone to help others in emergencies. Your wireless phone provides you a perfect opportunity to be a "Good Samaritan" in your community. If you see an auto accident, crime in progress or other serious emergency where lives are in danger, call 911 or other local emergency number, as you would want others to do for you.
10. Call roadside assistance or a special wireless non-emergency assistance number when necessary. Certain situations you encounter while driving may require attention, but are not urgent enough to merit a call for emergency services. But you can still use your wireless phone to lend a hand. If you see a broken-down vehicle posing no serious hazard, a broken traffic signal, a minor traffic accident where no one appears injured or a vehicle you know to be stolen, call roadside assistance or other special non-emergency wireless number.

The above tips are meant as general guidelines. Before deciding to use your mobile device while operating a vehicle, it is recommended that you consult your applicable jurisdiction's local laws or other regulations regarding such use. Such laws or other regulations may prohibit or otherwise restrict the manner in which a driver may use his or her phone while operating a vehicle.



06

**LIMITED  
WARRANTY - USA**

## Limited Warranty – USA

ARBITRATION NOTICE: THIS LIMITED WARRANTY CONTAINS AN ARBITRATION PROVISION THAT REQUIRES YOU AND LG (as defined hereinafter in the Definitions) TO RESOLVE DISPUTES BY BINDING ARBITRATION INSTEAD OF IN COURT, UNLESS YOU CHOOSE TO OPT OUT. IN ARBITRATION, CLASS ACTIONS AND JURY TRIALS ARE NOT PERMITTED. PLEASE SEE THE SECTION TITLED “PROCEDURE FOR RESOLVING DISPUTES” BELOW.

Should your LG Mobile Phone (“Product”) fail due to a defect in materials or workmanship under normal and proper use, during the warranty period set forth below, LG will, at its option, repair or replace the Product. This limited warranty is valid only to the original retail purchaser of the Product and applies only when purchased and used within the United States including U.S. Territories.

Warranty Period	Scope of Warranty
Twelve (12) months from date of original retail purchase (or absent valid proof of purchase, fifteen (15) months from manufacture date)	Parts and Labor (internal/ functional parts only)

- Replacement products and parts are warranted for the remaining portion of the original warranty period or ninety (90) days, whichever is greater.
- Replacement products and parts may be new, reconditioned, refurbished, or otherwise factory remanufactured.
- Replaced Products and parts will become the property of LG.

**EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THE PRODUCT IS LIMITED IN DURATION TO THE DURATION OF THE ABOVE LIMITED WARRANTY. UNDER NO CIRCUMSTANCES SHALL LG OR ITS U.S. DISTRIBUTORS/DEALERS BE LIABLE FOR ANY INDIRECT, INCIDENTAL, CONSEQUENTIAL, SPECIAL, OR PUNITIVE DAMAGES, INCLUDING, WITHOUT LIMITATION, LOST GOODWILL, LOST REVENUES OR PROFITS, WORK STOPPAGE, IMPAIRMENT OF OTHER GOODS, COST OF REMOVAL AND REINSTALLATION OF THE PRODUCT, LOSS OF USE, OR ANY OTHER**



**DAMAGES WHETHER BASED IN CONTRACT, TORT, OR OTHERWISE. LG'S TOTAL LIABILITY, IF ANY, SHALL NOT EXCEED THE PURCHASE PRICE PAID BY YOU FOR THE PRODUCT. Some states do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above exclusions or limitations may not apply to you. This limited warranty gives you specific legal rights and you may also have other rights that vary from state to state.**

## **HOW SERVICE IS HANDLED:**

The original sales receipt specifying the Product and date of purchase is required to obtain warranty service.

LG will not re-install or back-up any data, applications, or software that you have added to your Product. It is therefore recommended that you back-up any such data or information prior to sending the Product to LG to avoid permanent loss of such information

You shall bear the cost of shipping the Product to LG Customer Service. LG shall bear the cost of shipping the Product back to you after completion of service under this limited warranty.

## **THIS LIMITED WARRANTY DOES NOT COVER:**

- (1) Damage or defects of the Product resulting from use of the Product in other than its normal and customary manner.
- (2) Damage or defects of the Product resulting from abnormal use, abnormal conditions, improper storage, exposure to moisture or dampness, unauthorized modifications/connection/repair, misuse, neglect, abuse, accident, alteration, improper installation, or other acts which are not the fault of LG, including damage or defects of the Product caused by shipping, blown fuses, spills of food or liquid.
- (3) Damage or defects of the Product caused by transportation and/or handling, including scratches, dents, chips, and/or other damage to the finish of your Product including the external housing and cosmetic parts, unless such damage results from defects in materials or workmanship and is reported within one (1) week of delivery (Call: 1-800-793-8896).
- (4) Damage or defects to antennas unless caused directly by defects in material or workmanship.

- (5) Damage or defects of the Product resulting from operating the Product contrary to the instructions outlined in the Product owner's manual.
- (6) That LG Customer Service was not notified by you of the alleged defect or malfunction of the Product during the applicable limited warranty period.
- (7) Products with original serial numbers that have been removed, altered, or cannot be readily determined.
- (8) Damage or defects of the Product or missing items to any Product sold "As Is", "With all Faults" or similar disclaimer.
- (9) Damage or defect of the Product caused by the use of accessories, parts, consumable cleaning products, or service not provided or approved by LG.
- (10) All plastic surfaces and all other externally exposed parts that are scratched or damaged.
- (11) Products operated outside published maximum ratings.
- (12) Replacement of any consumable parts (such as fuses).

**The cost of repair or replacement under the above excluded circumstances shall be borne by you.**

**TO OBTAIN WARRANTY SERVICE AND ADDITIONAL INFORMATION:**

Call 1-800-793-8896 and select the appropriate option from the menu.

Or visit our website at <http://www.lg.com>.

Or by mail: LG Electronics Customer Service P.O. Box 240007 Huntsville, AL 35813 ATTN: CIC – Mobile Handsets

**DO NOT RETURN YOUR PRODUCT TO THE ABOVE ADDRESS.** Please call or write for procedures for obtaining warranty service.

## PROCEDURE FOR RESOLVING DISPUTES:

ALL DISPUTES BETWEEN YOU AND LG ARISING OUT OF OR RELATING IN ANY WAY TO THIS LIMITED WARRANTY OR THE PRODUCT SHALL BE RESOLVED EXCLUSIVELY THROUGH BINDING ARBITRATION, AND NOT IN A COURT OF GENERAL JURISDICTION. BINDING ARBITRATION MEANS THAT YOU AND LG ARE EACH WAIVING THE RIGHT TO A JURY TRIAL AND TO BRING OR PARTICIPATE IN A CLASS ACTION.

Definitions. For the purposes of this section, references to “LG” mean LG Electronics U.S.A., Inc., its parents, subsidiaries and affiliates, and each of their officers, directors, employees, agents, beneficiaries, predecessors in interest, successors, assigns and suppliers; references to “dispute” or “claim” shall include any dispute, claim or controversy of any kind whatsoever (whether based in contract, tort, statute, regulation, ordinance, fraud, misrepresentation or any other legal or equitable theory) arising out of or relating in any way to the sale, condition or performance of the product or this Limited Warranty.

Notice of Dispute. In the event you intend to commence an arbitration proceeding, you must first notify LG in writing at least 30 days in advance of initiating the arbitration by sending a letter to LG at LG Electronics U.S.A., Inc. Attn: Legal Department- Arbitration 1000 Sylvan Ave, Englewood Cliffs NJ 07632. You and LG agree to engage in good faith discussions in an attempt to amicably resolve your claim. The notice must provide your name, address, and telephone number; identify the product that is the subject of the claim; and describe the nature of the claim and the relief being sought. If you and LG are unable to resolve the dispute within 30 days, either party may proceed to file a claim for arbitration.

Agreement to Binding Arbitration and Class Action Waiver. Upon failure to resolve the dispute during the 30 day period after sending written notice to LG, you and LG agree to resolve any claims between us only by binding arbitration on an individual basis, unless you opt out as provided below. Any dispute between you and LG shall not be combined or consolidated with a dispute involving any other person’s or entity’s product or claim. More specifically, without limitation of the foregoing, any dispute between you and LG shall not under any circumstances proceed as part of a class or representative action. Instead of arbitration, either party may bring an individual action in small claims court, but that small claims court action may not be brought on a class or representative basis.

Arbitration Rules and Procedures. To begin arbitration of a claim, either you or LG must make a written demand for arbitration. The arbitration will be administered by the American Arbitration Association (“AAA”) and will be conducted before a single arbitrator under the AAA’s Consumer Arbitration Rules that are in effect at the time the arbitration is initiated (referred to as the “AAA Rules”) and under the procedures set forth in this section. The AAA Rules are available online at [www.adr.org/consumer](http://www.adr.org/consumer). Send a copy of your written demand for arbitration, as well as a copy of this provision, to the AAA in the manner described in the AAA Rules. You must also send a copy of your written demand to LG at LG Electronics, U.S.A., Inc. Attn: Legal Department-Arbitration 1000 Sylvan Avenue Englewood Cliffs, NJ 07632. If there is a conflict between the AAA Rules and the rules set forth in this section, the rules set forth in this section will govern. This arbitration provision is governed by the Federal Arbitration Act. Judgment may be entered on the arbitrator’s award in any court of competent jurisdiction. All issues are for the arbitrator to decide, except that issues relating to the scope and enforceability of the arbitration provision and to the arbitrability of the dispute are for the court to decide. The arbitrator is bound by the terms of this provision.

Governing Law. The law of the state of your residence shall govern this Limited Warranty and any disputes between us except to the extent that such law is preempted by or inconsistent with applicable federal law.

Fees/Costs. You do not need to pay any fee to begin an arbitration. Upon receipt of your written demand for arbitration, LG will promptly pay all arbitration filing fees to the AAA unless you seek more than \$25,000 in damages, in which case the payment of these fees will be governed by the AAA Rules. Except as otherwise provided for herein, LG will pay all AAA filing, administration and arbitrator fees for any arbitration initiated in accordance with the AAA Rules and this arbitration provision. If you prevail in the arbitration, LG will pay your attorneys’ fees and expenses as long as they are reasonable, by considering factors including, but not limited to, the purchase amount and claim amount. Notwithstanding the foregoing, if applicable law allows for an award of reasonable attorneys’ fees and expenses, an arbitrator can award them to the same extent that a court would. If the arbitrator finds either the substance of your claim or the relief sought in the demand is frivolous or brought for an improper purpose (as measured by the standards set forth in Federal Rule of Civil Procedure 11(b)), then the payment of all arbitration fees will be governed by the AAA Rules. In such a situation, you agree to reimburse LG for all monies previously disbursed by it that are otherwise your obligation to pay under the AAA Rules. Except as otherwise

provided for, LG waives any rights it may have to seek attorneys' fees and expenses from you if LG prevails in the arbitration.

Hearings and Location. If your claim is for \$25,000 or less, you may choose to have the arbitration conducted solely on the basis of (1) documents submitted to the arbitrator, (2) through a telephonic hearing, or (3) by an in-person hearing as established by the AAA Rules. If your claim exceeds \$25,000, the right to a hearing will be determined by the AAA Rules. Any in-person arbitration hearings will be held at a location within the federal judicial district in which you reside unless we both agree to another location or we agree to a telephonic arbitration.

Opt Out. You may opt out of this dispute resolution procedure. If you opt out, neither you nor LG can require the other to participate in an arbitration proceeding. To opt out, you must send notice to LG no later than 30 calendar days from the date of the first consumer purchaser's purchase of the product by either: (i) sending an e-mail to [optout@lge.com](mailto:optout@lge.com), with the subject line: "Arbitration Opt Out" or (ii) calling 1-800-980-2973. You must include in the opt out e-mail or provide by telephone: (a) your name and address; (b) the date on which the product was purchased; (c) the product model name or model number; and (d) the IMEI or MEID or Serial Number, as applicable (the IMEI or MEID or Serial Number can be found (i) on the product box; (ii) on a label on the back of the product beneath the battery, if the battery is removable; or (iii) from the settings menu via the following path: **Settings > About phone > Status**).

You may only opt out of the dispute resolution procedure in the manner described above (that is, by e-mail or telephone); no other form of notice will be effective to opt out of this dispute resolution procedure. Opting out of this dispute resolution procedure will not affect the coverage of the Limited Warranty in any way, and you will continue to enjoy the full benefits of the Limited Warranty. If you keep this product and do not opt out, then you accept all terms and conditions of the arbitration provision described above.

