




ENGLISH

User Guide

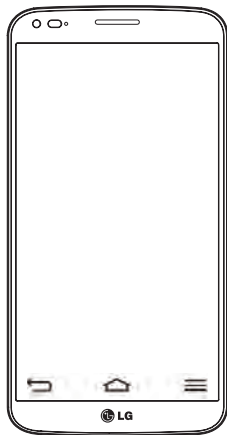
LG **G** *Flex*

MFL68160701 (1.0) 

www.lg.com

LG G Flex User Guide

- Screen displays and illustrations may differ from those you see on actual phone.
- Some of the contents of this guide may not apply to your phone, depending on the software and your service provider. All information in this document is subject to change without notice.
- This handset is not suitable for people who have a visual impairment due to the touch screen keyboard.
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SERVICE ACTIVATION

If you are a new T-Mobile® customer and your service has not been activated, simply call Customer Care at **1-800-937-8997** from your landline phone and a T-Mobile Activations representative will assist you. You will need the following information when activating service:

- Service Agreement and agent code on your Agreement.
- Your name, home address, home phone, and billing address.

NOTE: For business and government accounts, please provide the name of your company or government agency, address, and tax ID.

- Your Social Security number, current driver's license number, and date of birth for credit check purposes.
- Your choice of T-Mobile rate plan and services (see <http://www.t-mobile.com/> for the latest plan information).
- SIM serial number and IMEI number (located on the box bar code label).

By activating service, you acknowledge that you have read, understand, and agree to be bound by each of T-Mobile's Terms and Conditions and your Service Agreement.

About this user guide

Please read this user guide carefully before you use your phone and keep it handy for future reference.

Should your phone fails to operate correctly, refer to the FAQ section.

- Some features and service may vary by area, phone, carrier, plan and version of phone software.
- Screen displays and illustrations on this user manual may differ from those you see on the actual phone.
- Designs and specifications of the phone and other accessories are subject to change without any notice.

Table of contents

SERVICE ACTIVATION	2	Using the Clip Tray	45
Important notice	6	Text Link	45
Getting to know your phone	13	Dual Window	47
Installing the micro SIM card	16	Setting up Dual Window.....	47
Charging your phone	17	Using Dual Window	47
Switching between and exiting applications.....	19	Plug & Pop	48
Your Home screen	20	Google account setup	49
Touch screen tips	20	Creating your Google account.....	49
Proximity sensor	21	Signing into your Google account...	49
Quick Switch to Silent/Vibrate Mode	22	Calls	51
Home Screen Overview	23	Making a call	51
Navigating Through the Home Screen		Calling your contacts.....	51
Canvases	24	Answering and rejecting a call	51
Edit canvases.....	24	When the screen is locked.....	51
Unlocking the Screen	25	When the screen is unlocked	51
QuickTheater.....	26	Adjusting the in-call volume.....	52
KnockON	26	Making a second call	52
Navigating Through the Sub-Menus.	27	Viewing your call logs.....	52
Customizing your Home screen	28	Call settings.....	53
Customizing application icons on the Home screen.....	29	Contacts	54
Creating Folders on the Home screen	30	Searching for a contact	54
Customizing the Apps screen.....	31	Adding a new contact.....	54
Home screen clean view	32	Favorite Contacts.....	55
Notifications.....	33	Messaging/Email	56
Accessing notifications.....	33	Messaging.....	56
Quick Settings.....	33	Conversation view	56
Notification icons on the Status Bar	34	Sending a message.....	56
Entering Text.....	36	Using smilies and emojis.....	57
LG Keyboard.....	37	Changing the conversation theme ...	57
QWERTY Keyboard.....	38	Changing your message settings.....	57
Phone Keyboard.....	40	Email.....	58
Handwriting.....	42	To open the Email application.....	58
Additional Keyboard Features.....	43	Microsoft Exchange Email Account	58
Tips for Editing Text.....	44	Other (POP3 & IMAP4) Email Account	58
		Account	58
		Incoming server settings.....	58

Table of contents

Outgoing server settings.....	59	Multimedia	82
To open your Combined inbox	59	Gallery	82
Composing and Sending Email	59	Music	82
Working with Account Folders	60	How to save music/video files to the phone	82
Adding and Editing Email Accounts	60	How to play music/video files on the phone	83
Social Networking	62	Playing a song.....	83
Adding an account to your phone	62	Working with Playlists.....	83
Syncing accounts on your phone	62	To create a playlist.....	83
Life Square	63	To add a song to a playlist.....	84
Camera	64	To remove a song from a playlist	84
Getting to know the viewfinder.....	64	To rename a playlist.....	84
Taking a photo	65	To delete a playlist	84
Once you've taken the photo.....	65	Utilities	85
Using the advanced settings	65	QSlide	85
Viewing your saved photos	67	QuickMemo	86
Setting a photo as the wallpaper	68	QuickRemote	87
Multi-point Auto Focus.....	68	Universal remote	88
Shot & Clear.....	69	QuickTranslator	89
Super zooming	70	VuTalk	90
Camcorder.....	71	Voice Mate	93
Getting to know the viewfinder.....	71	Notebook.....	94
Recording a video	72	Creating a note	94
Using the advanced settings	72	SmartShare.....	96
After recording a video.....	73	Enjoy the Content Via a Variety of Devices	96
Watching your saved videos.....	74	Enjoy the Content from Nearby Devices.....	97
Adjusting the volume when viewing a video	74	Using Content from the Cloud.....	98
Dual recording	75	Setting an alarm.....	98
Tracking zoom.....	76	Using the calculator	99
Audio zoom	77	Adding an event to your calendar ...	99
Tracking focus.....	78	Task Manager	100
Zoom to Track.....	79	Tasks.....	100
Live Zooming	80	POLARIS Viewer 5	100
Dual Play.....	81		

The Web	101		
Browser	101		Smart screen
Using options	101		Smart video
Adding bookmarks	102		Notification LED
Changing the Browser settings	102		Auto-adjust screen tone
			Screen capture area
			Aspect ratio correction
Settings	103	General tab	120
Networks tab	103	Gestures	120
Airplane mode	103	One-handed operation	121
Wi-Fi	104	Storage	121
Bluetooth	105	Battery	121
Mobile data	108	Apps	122
Call	108	Multitasking	122
Share & connect	110	Accounts & sync	124
Tethering & networks	112	Cloud	124
Sound tab	115	Guest mode	124
Sound profile	115	Location access	125
Volumes	115	Security	126
Vibrate strength	115	Language & input	127
Quiet mode	115	Backup & reset	127
Phone ringtone	115	Date & time	128
Smart ringtone	115	Accessibility	128
Incoming call vibration	116	PC connection	129
Gentle vibration	116	Accessory	129
Ringtone with vibration	116	About phone	130
Voice notifications	116		
Notification sound	116	LG On-Screen Phone	131
Touch feedback & system	116	LG PC Suite	134
Display tab	117	Phone software update	136
Home screen	117	Trademarks	138
Lock screen	117	Accessories	140
Front touch buttons	118	Troubleshooting	141
Brightness	118	For Your Safety	145
Screen timeout	118		
Screen-off effect	118		
Auto-rotate screen	118		
Screen mode	118		
Daydream	119		
Font type	119		
Font size	119		


Important notice

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

1. Phone Memory

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

Managing Applications


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

2. Optimizing Battery Life


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

To extend the life of your battery


- Turn off radio communications that you aren't using, such as Wi-Fi, Bluetooth, or GPS. Wi-Fi will be set to On the first time you use your newly purchased phone.
- Lower screen brightness and set a shorter screen timeout.
- Turn off automatic syncing for Gmail, Calendar, Contacts, and other applications.
- Some applications you have downloaded may cause your battery power to be reduced.
- While using downloaded applications, check the battery charge level.

NOTE: If you accidentally press the **Power/Lock Key**  while the device is in your pocket, the screen will turn off automatically in order to save battery power.

To view the battery charge level

- 1 From the Home screen, tap the **Menu Key**  and tap **System settings** > **General** tab > **Battery**.
- 2 The battery status (charging or discharging) and level are displayed on the screen.

To monitor and control what uses the battery

- 1 From the Home screen, tap the **Menu Key**  and tap **System settings** > **General** tab > **Battery**.
- 2 Tap the battery icon.
- 3 A list all of the applications or services using battery power from the greatest amount of energy used to the least amount. You can also use it to turn off applications or services, if they are consuming too much power. Tap any of the listed items for more options.

3. Installing an Open Source Operating System

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


Warning!

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

Important notice

4. Using a Screen Lock

Set a screen lock to secure your phone. To set the screen lock, follow the process below.

From the Home screen, tap the **Menu Key** , tap **Lock screen settings** > **Select screen lock** and select a desired screen lock from **None**, **Swipe**, **Face Unlock**, **Pattern**, **PIN** and **Password**.

NOTE: In case that you have trouble with Face Unlock, you can unlock the screen a Backup Pattern or PIN.

Warning!

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

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

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









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

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

Caution

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


Read ALL steps before attempting.

- 1 Turn the phone off.
- 2 Press and hold **Volume Down Key**  + **Power/Lock Key**  at the same time.
- 3 Release the **Power/Lock Key**  only when the LG logo is displayed, then immediately press and hold the **Power/Lock Key**  again.
- 4 Release all keys when the Factory hard reset screen is displayed.
- 5 Press the **Volume Down Key**  to scroll to **Yes**, then press the **Power/Lock Key**  to confirm.
- 6 Press the **Volume Down Key**  to scroll to **Yes** once more, then press the **Power/Lock Key**  to confirm.
- 7 Your device will perform a hard reset.


5. Using Safe Mode


Using Safe mode

To recover your phone when malfunctioning.

- 1 Turn off your phone and reboot. When you see the T-Mobile booting animation press and hold the **Volume Down Key**  until you see the Home screen.

OR

While the phone is on, press and hold the **Power/Lock Key**  until the Phone options menu is displayed. Then press and hold **Power off** and tap **OK**. Your Home screen will then be displayed with the words "Safe mode" in lower left corner.

- 2 From the Home screen, tap the **Menu Key**  and tap **System settings** > **General** tab > **Apps**.
- 3 Tap one of the available tabs at the top of the screen and select the application you wish to uninstall.
- 4 Tap **Uninstall** and **OK** to confirm.

Important notice

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



NOTE: Please note that safe mode will disable all third party applications you have installed. They will be restored when you reboot again.

6. Connecting your phone to a computer via USB

- 1 Use the USB cable that was provided with your phone to connect the phone to a USB port on your computer. You'll receive a notification that the USB is connected and can see USB connection mode screen.
- 2 Tap **Media sync (MTP)** or **Send images (PTP)** to confirm that you want to transfer files between your phone and the computer.
- When the phone is connected as USB storage, you receive a notification. Your phone is recognized as a device on your computer. You can now copy files to and from the phone.

TIP! You can access your phone's storages while connected as USB storage. So you cannot use applications that rely on the storages, such as Music.

7. Unlock screen when using data connection


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

8. Internal antenna

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

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

9. When the screen freezes












If the phone does not respond to user input or the screen freezes:
Press and hold the **Power/Lock Key**  for 10 seconds to reboot it.

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

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

11. Hardware key control mode


If your phone display is damaged or broken, you can answer an incoming call, end a call, or turn off an alarm using the hardware keys.

- 1 Turn your phone off.
- 2 Press and hold the **Power/Lock Key**  and the **Volume Keys**   at the same time for more than 6 seconds to enter the Hardware key control mode.
- 3 Press the **Volume Keys**   to scroll to the desired option, then press the **Power/Lock Key**  to confirm.
 - **Answer a call:** Press the **Volume Keys**   at the same time.
 - **End a call:** Press the **Power/Lock Key**  during a call.
 - **Stop an alarm:** When an alarm rings, press and hold the **Volume Up Key**  or **Volume Down Key**  to stop the alarm.

Important notice

NOTE: If you use your phone with a broken display glass, your phone can break even more or you can be injured. Make sure to visit the LG authorized service center to get your phone repaired.

Getting to know your phone

To turn on the phone, press and hold the **Power/Lock Key**  on the back side of the phone for 3 seconds.

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

Front view



Getting to know your phone

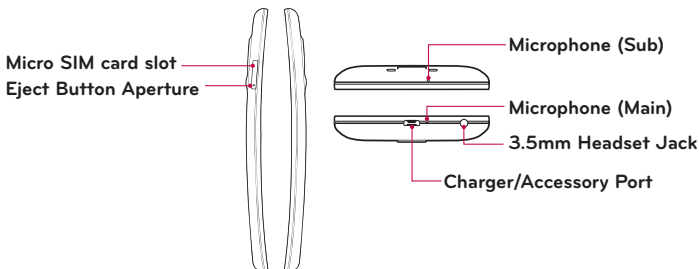
NOTE: The back cover of this product applies a "self-healing" technology, which self-repairs minor scratches in just a few minutes. Minor scratches are those caused by ordinary and normal use of the phone. Scratches caused by abrasive surface, misuse, including but not limited to intentional scratches, and damages caused by a fall or dropping the product, may not disappear. The "self-healing" results may vary depending on the extent of the damage as well as other conditions. Any warranty on the "self-healing" is hereby expressly excluded.

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

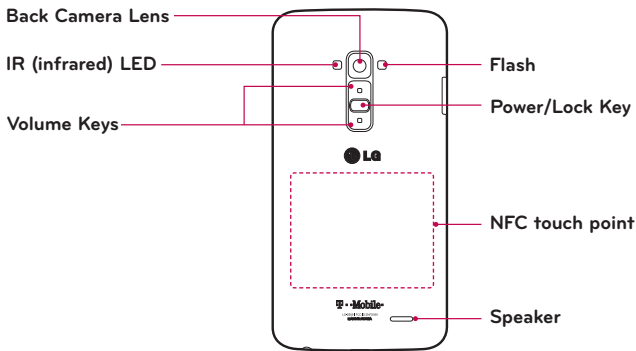
TIP!

Tap the **Menu Key** (≡) whenever you open an application to check what options are available.

Side view



Rear view



Notice

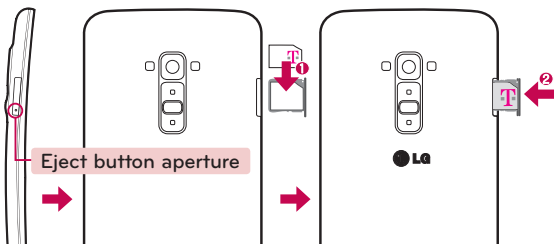
The NFC antenna for this model is on the back cover.

Getting to know your phone

Installing the micro SIM card

Before you can start exploring your new phone, you'll need to set it up. The micro SIM card tray eject button is a small round aperture on the tray door. To install a new micro SIM card:

- 1 Insert the micro SIM ejector tool that comes with the phone (or a thin pin) into the eject button aperture and push gently but firmly until the tray pops out.



- 2 Remove the tray and place the micro SIM card inside it (see image above). There is only one possible way to fit the card snugly into the tray.
- 3 Carefully reposition the tray in the slot and push it gently back into the phone.

NOTE: Turn the phone off before inserting or removing the SIM card.

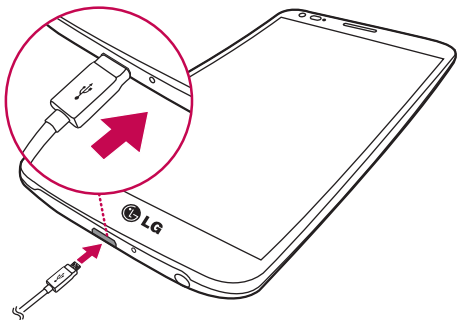
Warning! Always be careful. The ejection tool is a very sharp.

Charging your phone

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



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



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

Getting to know your phone

NOTE:

- The battery must be fully charged initially to improve battery lifetime.
- Your phone has an internal antenna. Be careful not to scratch or damage this rear area, as that will cause loss of performance.

Warning!

- Use only LG-approved chargers, batteries and cables. When using unapproved chargers or cables, it may cause battery slow charging the message regarding charging delay. Or, unapproved chargers or cables can cause the battery to explode or damage the device, which are not covered by the warranty.
- Charging may be interrupted when you use a USB hub, which is not retained rated voltage.


NOTE: Non-Removable Battery

Your phone has an internal, rechargeable battery that should be replaced only by LG or an authorized LG repair center. You should never try to open or take apart this phone yourself. Opening the phone can cause damage that will void your warranty.


Switching between and exiting applications

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

Switching between applications

- Touch and hold the **Home Key** . A list of recently used applications will be displayed. Then tap the application you want to access.
- To remove an application from the list, swipe the app preview to the left or right.

To stop/exit an application

- 1 From the Home screen, tap the **Menu Key**  and tap **System settings** > **General** tab > **Apps**.
- 2 Tap one of the tabs at the top of the screen, choose the desired application and tap **Force stop** (or **Stop**) to stop the application.

Your Home screen

Touch screen tips

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

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

Touch and hold - Touch and hold an item on the screen by touching it and not lifting your finger until an action occurs. For example, to open a contact's available options, touch and hold the contact in the Contacts list until the context menu opens.

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

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

Double-tap - Double-tap to zoom on a Web page or a map. For example, quickly double-tap a section of a Web page to adjust that section to fit the width of the screen. You can also double-tap to zoom in and out when using Maps.

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

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

NOTE:

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


Proximity sensor


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

NOTE: When turning the screen on, make sure you do not cover the proximity sensor. Doing so will not allow you to turn the screen on.


Your Home screen

Lock your phone




When you are not using the phone, press the **Power/Lock Key**  to lock your phone. This helps prevent accidental presses and saves battery power. Also, if you do not use the phone for a while, the Home screen, or other screen you are viewing, is automatically replaced with the lock screen after 30 seconds (depending on the screen timeout settings) of inactivity to conserve the battery and prevent pocket dialing.

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


NOTE:

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

Quick Switch to Silent/Vibrate Mode

To quickly set your phone to silent or vibrate mode, slide the Status Bar down and tap  until  or  appears.

Home Screen Overview

The main Home screen is the starting point for many applications and functions, and it allows you to add items like application icons, shortcuts, folders or widgets to give you instant access to information and applications. This is the default page and accessible from any menu by tapping the **Home Key** .

On your Home screen, you can view menu icons at the bottom of the screen. Menu icons provide easy and one-touch access to the functions you use the most.




Your Home screen


Navigating Through the Home Screen Canvases

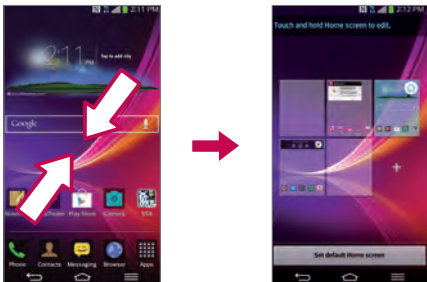
Your phone has several Home screen canvases. If you like, you can place different applications on each of the Home screen canvases.

From the main Home screen canvas, swipe the screen with your finger in either direction. The main Home screen canvas is located in the middle.

Edit canvases

To add more canvases, pinch in on the Home screen and tap .

To move a panel to another location, touch and hold it, then drag and drop it at the desired location. To set a canvas as the default canvas, tap **Set default Home screen**, then tap the desired canvas. To return to the Home screen, pinch out or tap the **Back Key** .




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

NOTE:

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

Unlocking the Screen

- 1 Press the **Power/Lock Key**  to turn on your screen. Your Lock Screen will appear.

NOTE:

Avoid covering the proximity sensor when turning the screen on. Doing so immediately turns the screen off.

- 2 From the center of the screen, swipe in any direction to unlock it.
 - Shortcuts can be added for quick access to your favorite apps. To add shortcuts, access the **Settings** menu, tap the **Display** tab > **Lock screen** > **Shortcuts**.
 - To use a shortcut, swipe the shortcut icon at the bottom of the screen in any direction. The screen will unlock and open the application.



Your Home screen

QuickTheater

QuickTheater allows you to see the slideshow for photos, videos, and YouTube.



- 1 From the lock screen, hold the phone horizontally.
- 2 Use both thumbs and slide them apart.
- 3 Choose the desired option.

NOTE:

The screen lock mode should be set as Swipe in order to use the QuickTheater function.

KnockON

The KnockON feature allows you to double-tap the screen to easily turn it on or off. You can enable/disable this feature in the Gestures settings.

To enable or disable KnockON

- 1 From the Home screen, tap the **Menu Key** (☰) > **System settings** > **General** tab > **Gestures**.
- 2 Tap the check box next to the **Screen on/off** option to enable or disable KnockON.

To turn the screen on

Quickly double-tap the center of the Lock screen to turn the screen on.

To turn the screen off

Quickly double-tap an empty area of the Home screen, Lock screen, or the Status Bar.

NOTE:

Tap on the center area of the screen. If you tap on the bottom or the top area, the recognition rate may decrease.



Navigating Through the Sub-Menus

Sub-menus are available when you are at any Home screen or have selected a feature or application such as Phone, Contacts, Messaging or Browser.

- 1 Touch the **Menu Key** (≡). A sub-menu displays at the bottom of the phone screen.
- 2 Tap an option.

Your Home screen

Customizing your Home screen

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

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

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

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






TIP!

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

To remove an item from the Home screen:


If there is no available space on a particular Home screen panel, you must delete or remove an item before you can add another item. In this case, you have the option of switching to another Home screen panel.

To delete an application icon from the Home screen, touch and hold the shortcut icon or widget you want to delete and drag to **Remove**  at the top of the screen. When  changes to  lift your finger.

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

Customizing application icons on the Home screen

You can customize each application icon with images from your Gallery.

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

NOTE:

If an icon you placed can be resized, you will see a blue box around the icon after you touch, hold and release it. Drag the edges of the box to resize it.

- 2 Tap the application icon.
- 3 Tap the icon design you want from the available **Theme icon** choices and change the size (if desired), then tap **OK**.

OR

Tap **Photo icon**, then tap **Add new**. Set the size for the icon, then tap **OK**. Select the image want to use for the application. Crop the image if necessary, then tap **OK**.

Your Home screen



NOTE:

- Your customized application icon(s) are only applied to icons on your Home screen. The Applications screen is not affected.
- Your custom photo icons are saved so you can easily select them for any of your icon images.



Creating Folders on the Home screen

You can create application folders to hold similar applications if you wish.

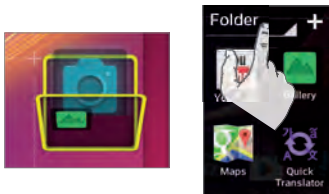
On the Home screen

- 1 Touch and hold an icon to unlock it from its positions. Then drag it over another icon and release it.
- 2 A folder will be created.

On the Apps screen



- 1 From the Home screen, tap the **Apps Key**  to open the Apps screen.
- 2 Touch the **Apps** tab (if necessary), touch  then touch and hold the desired icon to release it from its position.

- 3 Drag the icon over another icon and release it to create a folder.




NOTE: To rename a folder or change its color, touch the desired folder. Touch the drop-down menu to change the name or select a folder color.

Customizing the Apps screen

- 1 From the Home screen, tap the **Apps Key** .
- 2 Tap the **Apps** tab at the top of the screen to go to the Apps screen, if it is not already selected.
- 3 Touch the **Menu Key**  to access the following options:
 - **View apps by:** Tap to sort your applications either in alphabetical order, by downloaded date, or user customized.
 - **Show small/large icons:** Tap to change the application icons to either small or large, then tap **Yes** to set your choice.
 - **Apps wallpaper:** Tap to change the wallpaper background. Scroll horizontally to view all of your choices, tap the one you want, then tap **Apply**.
 - **Hide/Show apps:** Tap to set which application icons will be displayed in your Applications screen. Checkmark the icons you want to hide, then tap **OK**.

Your Home screen

Home screen clean view

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



Quick access

To view the quick access items, touch anywhere in the front key area and drag up. The following options are available: Voice Mate, Google Search, and QuickMemo.

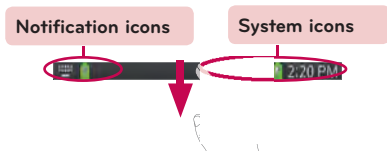


Notifications

Notifications alert you to the arrival of new messages, calendar events, and alarms, as well as to ongoing events, such as video downloads. From the Notifications panel, you can view your phone's current status and pending notifications.

When a notification arrives, its icon appears at the top of the screen. Icons for pending notifications appear on the left, and system icons showing things like Wi-Fi or battery strength on the right.

NOTE: The available options may vary depending on the region or service provider.



Accessing notifications

Swipe the Status Bar down to open the Notifications panel to access notifications. To close the Notifications panel, swipe the bar at the bottom of the screen upwards.



Quick Settings

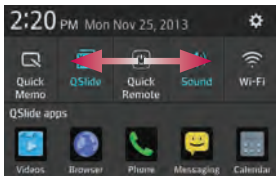
Use the Quick Settings to easily toggle function settings like Wi-Fi, manage display brightness and more. To access the Quick Settings, swipe the Status Bar down to open the Notifications panel and select any of the available Quick Setting apps at the top of the screen.

Your Home screen

NOTE: Touch and hold an icon on the Quick Settings menu to go directly to that setting's menu screen.

To rearrange Quick Setting items on the Notification panel

Open the Notifications panel, swipe the Quick Settings to the left, and tap . To rearrange items, drag  to the desired location. To add more icons, checkmark the desired functions.









Notification icons on the Status Bar













Notification icons appear on the Status Bar at the top of the screen to report missed calls, new messages, calendar events, device status and more.














The icons listed in the table below are some of the most common ones.

Icon	Description
	No Micro SIM card inserted
	No network signal
	Airplane mode is on

Icon	Description
	Vibrate mode is on
	Battery fully charged
	Battery is charging

	Connected to a Wi-Fi network
	Wired headset connected
	Call in progress
	Call hold
	Missed call
	Bluetooth is on
	NFC is on
	System warning
	Alarm is set
	New voicemail message
	Mobile HotSpot active or USB tethering active
	DLNA music playing

	Downloading data
	Uploading data
	GPS is acquiring location
	Receiving location data from GPS
	Data is syncing
	New Gmail message
	New Hangouts message
	New text/multimedia message
	Song is playing
	Phone is connected to PC via USB cable
	DLNA content share

Your Home screen

Entering Text


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

There are following types of keyboards that you can use: Google voice typing and LG Keyboard.

To select the default keyboard type

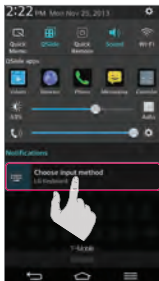
- 1 From the Home screen, tap the **Menu Key** (≡) > **System settings** > **General** tab > **Language & input** > **Default** (Under Keyboard & Input Methods).
- 2 Select the default keyboard.

To select the keyboard type while using the On-screen Keyboard

While entering text, you will see  on the Status Bar.


To change the input method:

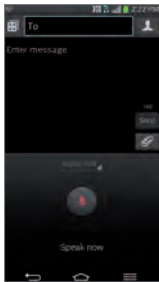
- 1 Pull down the Status Bar to open the Notifications Panel.
- 2 Tap **Choose input method** and select the desired input method.



Google Voice Typing

Google voice typing uses Google voice recognition to convert speech to text.





- 1 Pull down the Status Bar and tap **Choose input method > Google voice typing**.
- OR
- Tap  on the keyboard.
- 2 Speak into the phone's microphone and watch your text being entered on screen.
- 3 If the text is incorrect, tap the word and correct it.





LG Keyboard

The LG Keyboard allows you to choose from a QWERTY keyboard, Phone keyboard, and Handwriting input modes.

To change the keyboard:

- 1 While entering text, touch and hold , then tap .
- 2 Tap **Input language and type**, then tap  next to the desired language.
- 3 Tap the desired keyboard type and tap the **Back Key**  repeatedly to go back to the entry screen.

Your Home screen

NOTE: To use the Handwriting feature, touch and hold  on the keyboard, then tap .

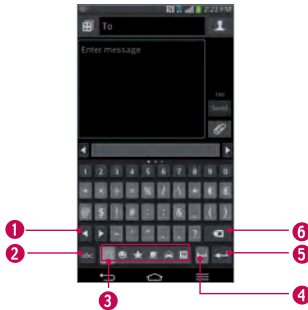
QWERTY Keyboard

Letters Entry Keyboard



- 1 Shift Key** - Tap once to capitalize the next letter you type. Tap again to turn on CAPS lock. Tap again to turn off CAPS lock.
- 2 Symbols Key** - Tap to change the input mode to symbol entry.
- 3 Keyboard Style/Language Key** - Tap to change the keyboard layout (one-handed operation) and input language.
- 4 Voice input/Handwriting/Clip Tray/Settings Key** - Tap to enter text by voice. Touch and hold to enter text by handwriting, enter items copied to the Clip Tray, or access the keyboard settings. The default icon displayed is Voice input.
- 5 Space Key** - Tap to enter a space.
- 6 Enter Key** - Tap to move the cursor to the next line.
- 7 Delete Key** - Tap to delete characters to the left of the cursor.


Symbols Entry Keyboard



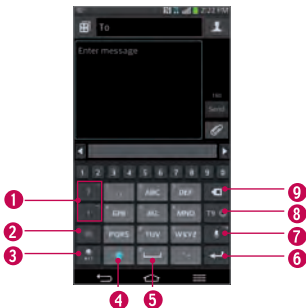
- ❶ **More Symbols Key** - Tap to access additional symbols.
- ❷ **Letters Key** - Tap to change the input mode to letters entry.
- ❸ **Emoji Mode** - Tap to enter emoji characters.
- ❹ **Space Key** - Tap to enter a space.
- ❺ **Enter Key** - Tap to move the a new line of text.
- ❻ **Delete Key** - Tap to delete characters to the left of the cursor.

Your Home screen

Phone Keyboard

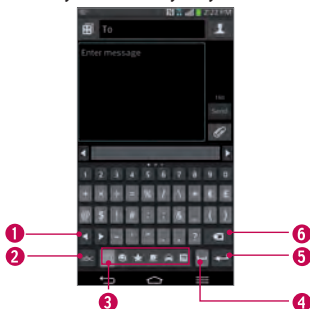
To enter text, tap the key labeled with the desired letter until it appears on the screen. For example, tap  once for "a", twice for "b", or three times for "c".

Letters Entry Keyboard



- 1 Favorite Symbol Key** - Touch and hold to access symbol entry and tap to set the frequently used symbol as the default entry.
- 2 Keyboard Style/Language Key** - Tap to change the keyboard layout (one-handed operation) and input language.
- 3 Symbols Key** - Tap to insert symbols.
- 4 Shift Key** - Tap once to capitalize the next letter you type. Tap again to turn on CAPS lock. Tap again to turn off CAPS lock.
- 5 Space Key** - Tap to enter a space.
- 6 Enter Key** - Tap to move the cursor to the next line.
- 7 Voice input/Handwriting/Clip Tray/Settings Key** - Tap to enter text by voice. Touch and hold to enter text by handwriting, enter items copied to the Clip Tray, or access the keyboard settings. The default icon displayed is Voice input.
- 8 T9 Key** - Tap to change the input mode to T9.
- 9 Delete Key** - Tap to delete characters to the left of the cursor.

Symbols Entry Keyboard



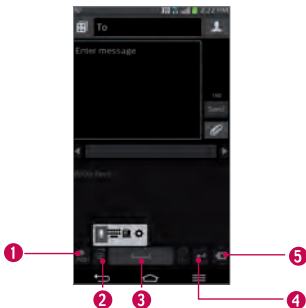
- ❶ **More Symbols Key** - Tap to access additional symbols.
- ❷ **Letters Key** - Tap to change the input mode to letters entry.
- ❸ **Emoji Mode** - Tap to enter emoji characters.
- ❹ **Space Key** - Tap to enter a space.
- ❺ **Enter Key** - Tap to move the a new line of text.
- ❻ **Delete Key** - Tap to delete characters to the left of the cursor.

Your Home screen

Handwriting

Write the text with your fingertip. The touchscreen converts your movements into characters.

Letters Entry Keyboard



- 1 Numbers/Symbols Key** - Tap to change the input mode to numbers and symbols entry.
- 2 Keyboard/Voice input/Clip Tray/Settings Key** - Tap to enter text using the keyboard. Touch and hold to enter text by voice input, enter items copied to the Clip Tray, or access the keyboard settings. The default icon displayed is keyboard entry.
- 3 Space Key** - Tap to enter a space.
- 4 Enter Key** - Tap to move the a new line of text.
- 5 Delete Key** - Tap to delete characters to the left of the cursor.

Additional Keyboard Features

You can enjoy various additional keyboard features.

Path input

To enter a word, draw a path through the letters of the word you are trying to spell. A space will be inserted automatically after each word.



Gesture control - Show/Hide keyboard

To hide the keyboard, swipe down on the keyboard.



Your Home screen

Gesture control - Split keyboard

Split the keyboard in two using your fingers in the landscape mode. Each half withdraws to left and right of the screen.



Tips for Editing Text

Your phone gives you many options to make entering text easier, including copying, cutting, and pasting text, using voice-to-text input, customizing the user dictionary, using predictive text, and more.

To cut/copy and paste:

- 1 Touch and hold a word to highlight it.
- 2 Drag the blue highlight markers to highlight the text you want.

OR



To select all the text, tap **Select all** in the context menu.

- To cancel the selection, simply tap unselected text or empty area.


- 3 Tap **Cut** or **Copy** in the context menu.
- 4 Place the cursor on the location where you want to paste the text.
- 5 Tap the cursor and tap **Paste**. The text that you pasted also remains in the phone's memory (temporarily), so you can paste that same text in another location.

Using the Clip Tray

Easily access the contents you stored in the Clip Tray whenever and wherever you want. You can copy images or texts and keep them in the Clip Tray. Then you can paste them whenever you want.

- 1 Touch and hold text and images while editing them and tap **Clip Tray**.
- 2 Touch and hold the text input field and select **Clip Tray**. You can also access the Clip Tray by touching and holding  > .

NOTE:

- This function may not be supported in downloaded apps.
- You can save up to 20 items in the Clip Tray.
- Touch and hold an item in the Clip Tray, then tap  to delete it.

Text Link



Text Link recommends apps related to text in messages or other text you've selected. It connects directly to Calendar, Contacts, Phone, Messaging, Email, Browser, Maps, YouTube, Calculator, and more.

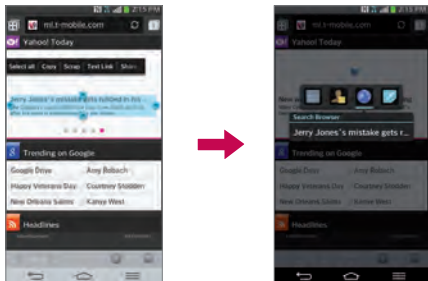
NOTE:

- If your phone is set to English or Korean, Text Link performs more functions than in other language settings.
- Overly long sentences are subject to limitations.
- Arithmetic operators (such as +, -, * and /) start the Calculator.
- If Text Link is not linked to an app, the Browser can be used for searching.

Your Home screen

To use Text Link:

- Tap a message bubble with the  icon.
- Highlight text on a webpage or emails and select **Text Link**.
- Tap **Share** and select **Text Link** .




Dual Window

This feature allows you to use two apps at the same time.

Setting up Dual Window

Dual Window should be set before using the feature.

- 1 From the Home screen, tap the **Menu Key**  > **System settings** > **General** tab > **Multitasking**.
- 2 Tap the **Dual Window** checkbox to enable/disable this feature.




Using Dual Window

- 1 Touch and hold the **Back Key**  to split the screen.



- 2 Touch or drag an app icon to the desired space.



-  (Switch icon) : Switch two screens.
-  (Drag icon) : Drag to resize the split screens.
-  (Menu icon) : Tap to view the app list, change to full screen or close the current app.



Your Home screen

Plug & Pop

Plug & Pop allows you to quickly choose apps to use when plugging in an earphone or On-the-Go device, such as a mouse or keyboard.

- 1 Plug in an earphone or OTG (On-the-Go) device (i.e., mouse, keyboard, etc.).
- 2 The applications panel will display at the bottom of the screen and you can select an app to run.

NOTE: You can edit the applications to display on the panel and set not to show the applications panel.




Tap  >  > **System settings** > **General** tab > **Accessory** > **USB storage** or **Earphone**. Select the desired options on the Edit app panel menu.






Google account setup

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

Creating your Google account

- 1 From the Home screen, tap the **Apps Key** .
- 2 Tap **Settings**  > **General** tab > **Accounts & sync** > **Add account** > **Google** > **New**.
- 3 Enter your username and tap . Your phone will communicate with Google servers and check for username availability.
- 4 Enter and re-enter your password. Then follow the instructions and enter the required and optional information about the account. Wait while the server creates your account.

Signing into your Google account

- 1 From the Home screen, tap the **Apps Key** .
- 2 Tap **Settings**  > **General** tab > **Accounts & sync** > **Add account** > **Google** > **Existing**.
- 3 Enter your email and password and tap .
- 4 Read the disclaimer about signing in and checkmark if you want to keep updated with news and offers from Google Play. Then tap **OK**.
- 5 After signing in, you can use Gmail and take advantage of Google services on your phone.
- 6 Once you have set up your Google account, your phone will be automatically synchronized with your Google account on the web. (Depending on your synchronization settings.)

Google account setup





After signing in, your phone will sync with your Google services, such as Gmail, Contacts, Calendar, and Google+ photo albums. You can also use Maps, download applications from Play Store, back up your settings to Google servers, and take advantage of other Google services on your phone.

IMPORTANT


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

Calls


Making a call

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

TIP!


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


Calling your contacts

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



Answering and rejecting a call

When the screen is locked


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

Swipe the **Decline** icon  in any direction to reject an incoming call.

When the screen is unlocked

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





Calls

NOTE: Tap or swipe the **Decline with message Key**  if you want to send a message to the caller. If the caller is unknown, the **Decline with message Key** is not available.

Adjusting the in-call volume

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

Making a second call


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

NOTE: You will be charged for each call you make.

Viewing your call logs


From the Home screen, tap the **Phone Key**  and the **Call logs** tab.
You can view a complete list of all dialed, received, and missed voice calls.

TIP!

- Tap any single call log entry to view the date, time, and duration of the call.
- Tap the **Menu Key** , then tap **Clear all** to delete all the recorded items or **Clear** to delete individual or groups of entries.

Call settings

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

- 1 From the Home screen, tap the **Menu Key**  and tap **System settings**.
- 2 Tap the **Networks** tab (if necessary) > **Call**.
- 3 Set any of the available options.

Contacts

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

Searching for a contact




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

OR



From the Home screen, tap the **Phone Key**  > **Contacts** tab.

- 2 Tap the **Search contacts** field and enter the contact name using the keypad. You can also tap the letters at the right side of the screen.

Adding a new contact

- 1 From the Home screen, tap the **Phone Key**  and enter the new contact's number.
- 2 Tap the **Menu Key**  > **Add to Contacts** > **New contact**.
- 3 Tap  and select the account where you want to add the new contact. Locations depend on the type of accounts you have added to your device.



NOTE: The entry fields varies depending on the account.

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



Favorite Contacts

You can classify frequently called contacts as favorites.

To add a contact to your favorites




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

To remove a contact from your favorites list

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

Joining and Separating Contacts

When you have two or more entries for the same contact, you can join them into a single entry. You can also separate contacts that were joined.

- 1 From the Home screen, tap the **Apps Key**  and then **Contacts** .
- 2 Tap the **Menu Key**  > **Join contacts**.
- 3 Select a tab at the top of the screen.
 - Tap **Join suggestion** to select entries to merge.
 - Tap **Joined contacts** to select entries to separate.
- 4 Checkmark the entry (or entries) you want to join or separate, then tap the **Join** or **Separate** button.



Messaging

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


Conversation view

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

Sending a message

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

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

- 3 Tap the text field and start entering your message.
- 4 Tap the **Menu Key**  to open the options menu. Choose from any of the available options.
- 5 Tap **Send** to send your message.

Warning!

- The 160-character limit may vary from country to country depending on how the text message is coded and the language used in the message.
- If an image, video, or audio file is added to a text message, it will be automatically converted into a multimedia message and you will be charged accordingly.

NOTE: When you get a text message during a call, there will be an audible notification.

Using smilies and emojis

Liven up your messages using smilies and emojis.

When writing a new message, tap the **Menu Key** (≡) > **Insert smiley**. To access emojis, tap (👉) on the LG keyboard and choose an emoji category to view the available emojis.

Changing the conversation theme

Sets how your conversations are displayed.

- 1 Open the **Messaging** app and tap the **Menu Key** (≡) > **Settings** > **Conversation theme**.
- 2 Tap the **Wallpaper** tab to choose the conversation background. Choose from the 6 options provided, a photo from your Gallery, or take a picture to use.
- 3 Tap the **Bubble** tab to choose the conversation style. Choose from the 6 options provided.

Changing your message settings

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

- From the Home screen, tap **Messaging** (📧) > **Menu Key** (≡) > **Settings**.

Email

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

To open the Email application

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

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

Microsoft Exchange Email Account

Email address – Enter the account email address.

Password – Enter the account password.

Server address – Enter the server address.

Domain – Enter the account domain (optional).

Username – Enter the account username.

Use secure connection (SSL) – Choose whether or not to use SSL for Microsoft Exchange.

Client certificate – If you check mark this, you accept all SSL certificates regardless public or private.

Other (POP3 & IMAP4) Email Account

Email address – Enter the account email address.

Password – Enter the account password.

Incoming server settings

POP/IMAP server – Select the protocol type, either POP or IMAP.

Security type – Choose from Off, SSL, SSL(Accept all certificates) , TLS, TLS(Accept all certificates)

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

Outgoing server settings


SMTP server – Enter the outgoing email server address.

Security type – Choose from Off, SSL, SSL(Accept all certificates) , TLS, TLS(Accept all certificates)

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

To open your Combined inbox





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



- Open the **Email** application and touch . Then touch **Combined inbox**.

Messages in the Combined inbox are color coded on the left, by account.


When a new email arrives in the Inbox, there will be sound and/or vibration notification (depending on your current sound and vibrate settings).

Composing and Sending Email

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

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

Messaging/Email

Tap the **Menu Key**  > **Discard** to abandon and delete a message, including any saved drafts. If you are not connected to a network, for example if you're working in airplane mode, the messages you send are stored in your **Outbox** folder until you're connected to a network. If it contains any pending messages, the Outbox will be displayed on the Accounts screen.



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

Working with Account Folders

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

Adding and Editing Email Accounts


To add an email account

- 1 From the Home screen, tap the **Apps Key**  > **Email** .
- 2 Select the desired email provider.


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

In this case, tap the **Menu Key**  > **Settings** > .

To change account settings

- 1 Open the **Email** application.
- 2 Tap the **Menu Key**  > **Settings**.
- 3 Tap **General settings** to adjust the settings that affect all accounts. Or tap an individual account to adjust settings only for that account.

To delete an email account

- 1 Open the **Email** application.
- 2 Tap the **Menu Key**  > **Settings**.
- 3 Select the account(s) you want to delete and tap **Remove account**.
- 4 Tap **Yes** to confirm.


Social Networking

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

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


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

Adding an account to your phone



- 1 From the Home screen, tap the **Menu Key**  > **System settings** > **General** tab > **Accounts & sync**.
- 2 Tap **Add account**.
- 3 Tap any social networking service you want to use.
- 4 Enter your email address and password that you set up for your social networking account, then tap **Log in**.

Syncing accounts on your phone

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

- 1 From the Home screen, tap the **Menu Key**  > **System settings** > **General** tab > **Accounts & sync**.
- 2 Checkmark **Auto-sync data** to activate automatic synchronization.
- 3 Tap the account you want to sync.
- 4 Check the desired options, such as Contacts.
A checkmark indicates that synchronization has been enabled.


Removing accounts on your phone

- 1 From the Home screen, tap the **Menu Key**  > **System settings** > **General** tab > **Accounts & sync**.
- 2 Tap the account(s) you want to delete, then **Menu Key**  > **Remove account** > **OK**.

Life Square

The Life Square app allows you to collect and save call logs, messages, photos, videos, voice recordings, your posts on social networking sites.

To select what events are logged

- 1 Open **Life Square** and tap the **Menu Key**  > **Settings**.
- 2 Under the Types of Content section, tap the check box next to the items you want to log. Choose from **Calls, Messages, Photos, Videos, Voice recordings, Facebook**, and **Twitter**.

Camera

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


Getting to know the viewfinder




- ❶ **Flash** – Tap to turn the flash **On**, **Off** or set it to **Auto**.
- ❷ **Swap camera** – Switch between the rear-facing camera lens and the front-facing camera lens.
- ❸ **Shot mode** – Allows you select the shot mode from **Normal**, **Shot & Clear**, **Dynamic tone(HDR)**, **Panorama**, **VR panorama**, **Burst shot**, **Portrait +**, **Dual camera**, **Time catch shot**, **Intelligent auto**, **Sports** and **Night**.
- ❹ **Settings** – Touch this icon to open the settings menu. See **Using the advanced settings** on the following page.
- ❺ **Mode switch** – Touch and slide down this icon to switch to video mode.
- ❻ **Capture** – Touch to capture a picture.
- ❼ **Gallery** – Touch to view the last photo you captured. This enables you to access your Gallery and view saved photos while in camera mode.

NOTE: Please ensure the camera lens is clean before taking pictures.

Taking a photo

- 1 From the Home screen, tap **Camera** .
- 2 Holding the phone horizontally, point the lens towards the subject you want to photograph.


NOTE: To zoom in use the pinch-to-zoom method.

- 3 A focus box will appear in the center of the viewfinder screen. You can also tap anywhere on the screen to focus on that spot.
- 4 When the focus box turns green, the camera has focused on your subject.
- 5 Tap **Capture**  to take a picture.

Once you've taken the photo

Tap the image preview at the bottom of the screen to view the picture.

Using the advanced settings

In the viewfinder, tap  to open the advanced options.

Voice shutter - Allows you to take a picture by voice.

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

Focus - Tap to select the focus mode.

Auto: Allows the camera to focus automatically. (The camera continuously focuses on the objects in the photo).

Manual: Allows you to set the focus mode manually before taking a photo.

Face tracking: The camera detects and focuses on human faces automatically.

Camera

Image size - Tap to set the size (in pixels) of the picture you take. Select a pixel value from the following options: **13M 4160x3120 (4:3)**, **W10M 4160x2340 (16:9)**, **8M 3264x2448 (4:3)**, **1M 1280x960 (4:3)**.


ISO - Control the camera's sensitivity to light. Choose from **Auto**, **100**, **200**, **400** and **800**.

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

Color effect - Allows you to set a color effect for the photo. Choose from **None**, **Mono**, **Sepia**, and **Negative**.

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

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

NOTE: This function uses wireless networks. You need to activate Google's location service. From the Home screen, tap the **Menu Key**  > **System settings** > **General** tab > **Location access** > **GPS satellites** and **Wi-Fi & mobile network location**.

Shutter sound - Adjust the sound the shutter makes when taking a picture.

Volume key - Set how to use the Volume Keys for certain actions. Choose from **Capture** or **Zoom**.

Help - Touch this whenever you want to know how a function works. This icon will provide you with a quick guide.

Reset - Restore all camera default settings.

NOTE:

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

Viewing your saved photos

You can access your saved photos from within the camera mode. Just tap the image preview at the bottom of the camera screen.

TIP!

Flick left or right to view other photos or videos. Tap the screen to display other options menus.



– Tap to share the photo using SmartShare (turn on Wi-Fi if it's not already on).



– Tap to take a new photo.



– Tap to share the photo.



– Tap to delete the photo.


Menu Key (≡) – Tap to access **Set image as, Move, Copy, Copy to Clip Tray, Rename, Rotate left, Rotate right, Crop, Edit, Slideshow, Add location, Print** and **Details**.

TIP!

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

NOTE: Additional charges may apply when multimedia messages are downloaded while roaming.

Setting a photo as the wallpaper

- 1 Tap the photo you want to set as wallpaper to open it.
- 2 Tap the **Menu Key**  > **Set image as** > **Home screen wallpaper**.
- 3 Crop the image as desired and tap **Crop**, then select **Yes**.

Multi-point Auto Focus



When you take a picture, the Multi-point Auto Focus (AF) function operates automatically and will allow you to see a clear image.



NOTE: When Multi-point AF is active, the focus box will change to a green color.

Shot & Clear

The Shot & Clear feature allows you to remove interfering objects from pictures.

- 1 Open the **Camera** application.
- 2 Tap **MODE** > **Shot & Clear**.
- 3 Tap  to take the picture.
- 4 Tap the outlined objects you want to remove.
- 5 Tap  to save the picture.



NOTE:

- Please take a picture without moving the camera.
- This function may not be supported if the moving object's color and the background color are similar.
- This function may not be supported if the moving object's size is too small or too big.
- This function may not be supported if the object's movement is small.
- When there are too many moving objects, only a part of the movement can be detected.



Super zooming

You can use a zoom up to 8 times while taking pictures.

NOTE:

- This function operates automatically while zooming in and out.
- Use a steady hand. This feature does not work with some functions.
- Objects can be overlapped when taking a picture of fast-moving subjects.

Camcorder

To open the Video Camera application, tap **Camera**  on the Home screen and slide  down.






Getting to know the viewfinder





- 1 **Flash** – Tap to turn the flash **On**, **Off** or set it to **Auto**.
- 2 **Swap camera** – Allows you to swap between the rear camera lens and the front camera lens.
- 3 **Recording mode** – Allows you to change the recording mode to **Normal**, **Live effect**, **Dual recording** or **Tracking zoom**.
- 4 **Settings** – Touch this icon to open the settings menu. See **Using the advanced settings** on the following page.
- 5 **Camera mode** – Touch and slide up this icon to switch to camera mode.
- 6 **Record** – Touch to start recording a video.
- 7 **Gallery** – Touch to view the last video you recorded. This enables you to access your Gallery and view your saved videos while in video mode.

TIP! When recording a video, place two fingers on the screen and pinch to use the Zoom function.

Recording a video

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

NOTE:

- Tap  on the screen to take a capture while you're recording.
- Tap  on the screen to pause while you're recording.

Using the advanced settings

Using the viewfinder, tap  to open the advanced options.

Audio zoom – Increases sound sensitivity in zooming area and decreases noise when recording.

Video size – Allows you to change the video resolution to **UHD(3840x2160)**, **FHD₆₀ 1920x1080(60fps)**, **FHD 1920x1080(30fps)**, **HD 1280x720**, **QVGA 320x240(MMS)**, and **QCIF 176x144(MMS)**.

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

Anti-shaking – Allows you to reduces image blur due to the movement of the subject of the video or hand movement.

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

Color effect – Allows you to set a color effect for the photo. Choose from **None**, **Mono**, **Sepia**, and **Negative**.

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

Volume key – Set how to use the Volume Keys for certain actions. Choose from **Record** or **Zoom**.

Help – Touch this if you want to know how this function works. This icon will provide you with a quick guide.

Reset – Restore all video camera default settings.

After recording a video

Touch the image preview at the bottom of the screen to view the last video you recorded.



– Tap to share your video using the SmartShare function.



– Tap to record another video immediately.



– Tap to share the video.



– Tap to delete the video.

Menu Key  – Tap to access **Move**, **Copy**, **Trim**, **Rename**, and **Details**.

While playing a video, the following options are available.



– Increases the volume in the selected area during video playback.



– Plays a video while keeping the zoom locked in on a specific object.



– Enables an overlay on your phone's display for easy multi-tasking.



– Tap to share your video using the SmartShare function.



– Locks the touch keys to prevent unintentional touches.



– Allows you to adjust the screen ratio.

Camcorder



- Captures a screen shot while playing a video.

Menu Key  - Tap to access **Subtitles, Play speed, Share, Trim, Delete, Settings, Details, and Help.**

NOTE:

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

Watching your saved videos

- 1 In the viewfinder, tap the image preview at the bottom of the camera screen.
- 2 Your Gallery will appear on the screen.
- 3 Tap a video to play it automatically.

NOTE:

- While a video is playing, slide the left side of the screen up or down to adjust the screen brightness.
- While a video is playing, slide the right side of the screen up or down to adjust the volume.
- While playing a video, slide the screen left or right to rewind or fast-forward.

Adjusting the volume when viewing a video

To adjust the volume of a video while it is playing, use the Volume Keys on the back side of the phone.

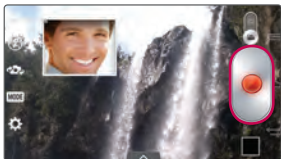
Dual recording

The **Dual recording** feature allows you to record videos with the front and rear cameras at the same time.



- 1 Open the **Camera** application.
- 2 Change to video mode and tap **MODE** > **Dual recording**.



- 3 Tap **Record** to start dual recording.



NOTE:

- Drag the small screen to move it to your desired location.
- Touch and hold the small screen to resize it.
- Tap on the small screen to switch screens.
- Tap  to change small window's frame.
- Tap  on the screen to pause while you're recording.

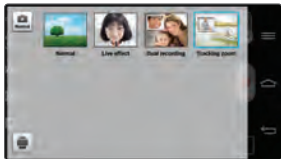
- 4 Tap  to stop recording.

Camcorder

Tracking zoom

Defines the focus area to enlarge before recording a video. Touch and hold the small screen to resize or move it.

- 1 Open the **Camera** application.
- 2 Change to video mode and tap **MODE** > **Tracking zoom**.



- 3 Set the magnifying glass image to the area you want to zoom in on and track.
- 4 Tap **Record** to start recording.





- 5 Tap to stop recording.

NOTE:

- Drag the small screen to move it to your desired location.
- Touch and hold the small screen to resize it.
- Tracking zoom is only available when using the rear camera, not the front camera.

Audio zoom

Increase sound sensitivity in the area you zoom in on and decrease noise when recording.

- 1 Open the **Camera** application.
- 2 Change to video mode, tap  > **Audio zoom** > **On**.
- 3 Tap **Record**  to start recording.
- 4 Zoom in a certain area to increase sound sensitivity and decrease noise.





NOTE:

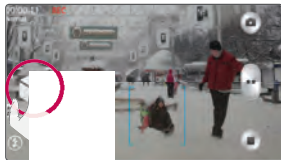
Available only in landscape view.

- 5 Tap  to stop recording.

Tracking focus

Tracks the subject that you've focused on while recording a video.

- 1 Open the **Camera** application.
- 2 Change to video mode and tap **Record**  to start recording.
- 3 Tap on the subject in the preview screen to track it while you record.
- 4 Tap  to refine the focus.




NOTE:

Depending on the selected object and settings, this function may not work.

Zoom to Track

When you play a video, you can enlarge an object while tracking it.

- 1 When you play a video, tap .
- 2 Touch the magnifying glass and drag it to the object to track.



NOTE:

- Do not press too hard; the touch screen is sensitive enough to pick up a light, but firm tap.
- Zoom to Track may not be available if the object moves too fast or off from the screen.

Live Zooming

Live Zooming allows you to zoom in or zoom out on a portion of a video that is being played to make the desired section appear larger or smaller.

When viewing a video, use your index finger and thumb in a pinching or spreading motion to zoom in or out.




NOTE:

Do not press too hard; the touch screen is sensitive enough to pick up a light, but firm touch.

Dual Play

Dual Play (connected wired or wirelessly to two displays) can be run on a different screen.


NOTE:

- Connect two devices using wired (Slimport-HDMI) cable or a wirelessly (Miracast).
- The connectable device can be a TV or a monitor supported by an HDMI cable or Miracast.
- The Gallery, Videos, POLARIS Viewer 5 is supported on Dual Play.
- Tap . Once when two displays are a different status (i.e. the monitor is playing a video and your phone's video app is displaying empty screen), then Dual Play will start.
- Some video contents may not be supported by Dual Play.
- Dual Play operates at 1280X720 or higher display resolution.



Multimedia

You can store multimedia files to a internal memory to have easy access to all your image and video files.

Gallery

From the Home screen, tap the **Apps Key**  > **Gallery** .

Music

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

How to save music/video files to the phone

Connect your phone to the PC using the USB cable.

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

Save music or video files from the PC to the phone.







- You may copy or move files from the PC to the phone's removable storage using a card reader.
- If there is a video file with a subtitle file (.smi file with the same name as the video file), place them in the same folder to display the subtitle automatically when playing the video file.
- When downloading music or video files, copyright must be secured. Please note that a corrupted file or file with a wrong extension may cause damage to the phone.

How to play music/video files on the phone

Playing music/video files

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

Playing a song

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


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

Touch and hold a song to access the following options: **Play**, **Add to playlist**, **Share**, **Set as ringtone**, **Delete**, **Details**, and **Search**.


Working with Playlists

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

To create a playlist

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

To add a song to a playlist

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

To remove a song from a playlist

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

To rename a playlist

- 1 Open the **Playlists** library.
- 2 Touch and hold the playlist to display the options menu, then tap **Rename**.
- 3 Enter the desired name and tap **OK**.

To delete a playlist

- 1 Open the **Playlists** library.
- 2 Touch and hold the playlist to display the options menu, then tap **Delete**.
- 3 Tap **Yes** to confirm.

NOTE:

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

Utilities

QSlide



The QSlide function enables an overlay on your phone's display for easy multi-tasking.

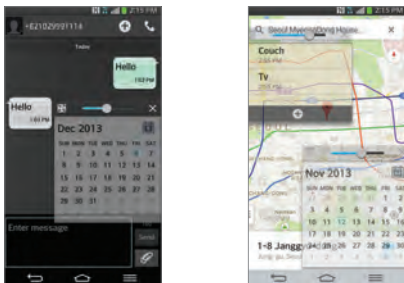
- 1 While using an app that supports QSlide, tap  to access QSlide.

OR

Open the Notifications Panel and touch an app from the **QSlide apps** section.



- 2 Use the slider  to adjust the transparency of the overlay.
- 3 You can make a call, or choose other phone options.
- 4 Tap  to exit the QSlide function.
 - Drag the bottom right corner to increase or to decrease the window size.
 - Drag the title bar to move the window on screen.




NOTE:












The QSlide function can support up to two windows at the same time.

QuickMemo

The QuickMemo feature allows you to create memos and capture screen shots. You can use QuickMemo to easily and efficiently create memos during a call, with a saved picture or on the current phone screen.

- 1 Touch and drag the Status Bar down and tap . You can also access it by swiping upwards from the main keys area at the bottom of the screen.



- 2 Create a memo using the following options:
 -  - Tap to keep the memo on top and and continue using the phone. Tap  to exit the overlay mode.
 -  - Tap to select what type of background to use.
 -  - Tap to undo the most recent action.
 -  - Tap to redo the most recently deleted action.
 -  - Tap to select the pen type and color or to crop the image.
 -  - Tap to use the eraser to erase the memo that you created.
 -  - Tap to share the memo with others via any of the available applications.
 -  - Tap to save the memo you've created.
 -   - Tap to hide or display the toolbar.

NOTE:

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

- 3 Tap  to save the current memo to the **Notebook** or **Gallery**.

Discard QuickMemos:

- Tap the **Back Key** .

View the Saved Memo

From the Home screen tap the **Apps Key**  > **Gallery**  or **Notebook**  and select the **QuickMemo** album.

QuickRemote

QuickRemote turns your phone into a Universal Remote for your home TV, cable box, audio system, DVD/Blu-ray players, air conditioner and projector.

- 1 From the Home screen, tap the **Apps Key**  > **QuickRemote**  > .
- OR**


Touch and slide the Status Bar downwards and touch  > **ADD REMOTE.**




- 2 Select the type of device and its manufacturer, then follow the on-screen instructions to configure the device(s).



Utilities

TIP! To quickly use the QuickRemote feature, touch and slide the Status Bar downward and tap  on the Quick Settings bar to activate it.






Touch the **Menu Key**  to select **Magic Remote setting, Edit remote name, Learn remote, Move remote, Delete remote, Edit room, Settings, and Help.**

NOTE:

QuickRemote features an ordinary remote control and infrared (IR) signals to operate the same way. Therefore, be careful not to cover the infrared sensor when you use QuickRemote. This function may not be supported depending on the model, the manufacturer or service company.

Universal remote

You can create your own personalized universal remote and choose where to place all of the buttons.

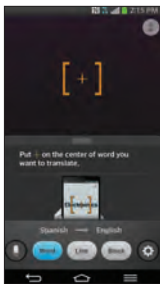
- 1 From the Home screen, tap the **Apps Key**  > **QuickRemote** .
- 2 Tap  > **Universal remote.**
- 3 Enter the remote name and touch **OK.**
- 4 Place the buttons you want on the remote at the desired location and tap **Next.**
- 5 Tap the button to be learned.
- 6 Point the original remote 4 inches away from the IR receiver on back of phone.

- 7 Press and hold the button on the original remote for 2 seconds.



QuickTranslator

Simply aim the camera of your smart phone at the foreign sentence you want to understand. You can get the real-time translation anywhere and anytime. You can buy additional dictionaries for offline translation from the Google Play Store.



- 1 From the Home screen tap the **Apps Key**  > **QuickTranslator** .

Utilities

2 Tap , **Word**, **Line** or **Block**.

3 Hold the phone toward the subject you want to translate for a few seconds.

NOTE:

- Only one dictionary is provided free of charge. Additional dictionaries must be purchased. Please select the dictionary you would like to install as your complimentary dictionary.
- There may be a difference in the rate of recognition depending on the size, font, color, brightness and angle of the letters that need to be translated.

VuTalk

With the VuTalk feature, you can make an interactive and more creative notes with the other party. Visual communication is possible while sharing a photo, a map or camera preview.

NOTE:

- Only available with a phone that supports this feature as well.
- You can also use the VuTalk feature during a call.
- The screen will lock if there is no input.
- Requires data connection. Data charge will apply to both phones.

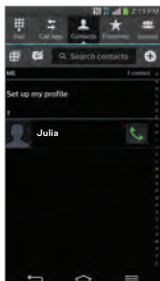
Register VuTalk Before Use

1 From the Home screen, tap the **Apps Key**  > **Contacts** .

2 Tap .

NOTE:




You can also register VuTalk service while you are in a call.






NOTE:

If you have not agreed to the LG app terms and conditions and privacy policy yet, you will be prompted to accept.

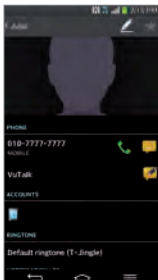
VuTalk Settings





- 1 From the Home screen, tap the **Apps Key**  > **Contacts** .
- 2 Tap the **Menu Key**  > **VuTalk settings**.
- 3 Set the following options as your preferences.
 - **Notification sound:** Select the desired notification sound.
 - **Vibrate:** Select the desired vibrate type.
 - **Show request popup:** Checkmark this option to display a pop-up when a VuTalk request is received.
 - **Contact sync:** Checkmark this option to sync contacts.

Communicate Visually with VuTalk



- 1 From the Home screen, tap the **Apps Key**  > **Contacts** .
- 2 Tap  to display only the contacts who use the VuTalk feature.
- 3 Tap a contact to start VuTalk with.

Utilities




- 4 In the contact's details screen, tap .
- After the other party accepts your VuTalk request, you can start VuTalk with him/her.
- 5 Use the VuTalk screen to chat and visually communicate with your friend.
- Tap  to attach a photo, take a new photo, map view, or a sticker.
 - Tap  and  to edit the images you attach.



- 6 When you finish VuTalk, tap  or the **Back Key**  to exit the VuTalk feature. The created VuTalk screen is stored in the **Notebook** app.

NOTE:

If you tap the **Home Key**  and go back to the Home screen, the VuTalk feature still runs in the background.




Voice Mate

Voice Mate allows you hands-free interaction with your devices. You can ask Voice Mate to perform phone functions using your voice, such as calling a contact, setting alarms or searching the web. When you access this feature for the first time, it displays help information to assist you in learning how to use this function.

NOTE:




- You can use the Voice Mate after agreeing both of End User License Agreement and Privacy policy.
- You can view examples of various commands by swiping the Voice Mate main screen to the left.
- You can also launch Voice Mate by swiping upwards from the main keys area at the bottom of the screen.

Use Voice Mate

- 1 From the Home screen, tap the **Apps Key**  > **Voice Mate** .
- 2 Tap the **Speak** icon  to turn it on. Say what you want it to do for you.

TIP! Use Voice Mate in a quiet environment so it can accurately recognize your commands.

Voice Mate Settings

- 1 From the Home screen, tap the **Apps Key**  > **Voice Mate** .
- 2 Tap the **Menu Key**  > **Settings**.
 - **Skip confirmation** - Activate to make a call without confirmation when the exact name or number searched for is found.



Utilities

- **Voice feedback** - Tap to activate voice feedback even when no headset is connected.
- **User name** - If a user name is set, Voice Mate will recognize the user name.
- **Save events to** - Allows you to save events to your phone or Google Account.
- **Voice activation** - Tap to activate the Speak button by saying a voice launch command.
- **Button vibration** - Activate to allow the device to vibrate when the Speak button is tapped.
- **Voice launch command** - Set the voice launch command to LG Mobile or Hello Genie.
- **Voice launch when charging** - Activate to allow you to open Voice Mate while charging with the screen on.
- **Voice launch on Lock screen** - Activate to allow you to open Voice Mate on the Lock screen.
- **Skip Lock screen** - Activate to allow the device to skip Face Unlock, Pattern, PIN or Password when opening Voice Mate via a voice launch command on the Lock screen.
- **Facebook** - Set the Facebook account.
- **Twitter** - Set the Twitter account.

Notebook

You can use the Notebook app to make your own notes using handwriting tools or attaching preferred multimedia files. With the Notebook application, you can manage and personalize a wide variety of information.

Creating a note

- 1 From the Home screen, tap the **Apps Key**  > **Notebook** .
- 2 Tap **New note** to create note.

3 Create a note using the available tools.



- / **Read only/Edit mode:** Tap to view the note in read-only mode and prevent any unintentional drawings. To go back to the Edit mode, tap .
 - / **Undo/Redo:** Undo and redo the previous actions.
 - **Text:** Tap to select the font type, size and color. Then, tap any place where you want to enter text on the white paper. Then, the keyboard will show up.
 - **Pen:** Tap to select the pen type, thickness, opacity and color. Then draw a picture.
 - **Eraser:** Tap to select the eraser. Tap **Clear all** to clear up.
 - **Insert:** Tap to attach multimedia files from **Sticker, Image, Take photo, Video, Record video, Audio, Record voice, Location, Date and time, or Schedule.**
 - **Lock/Unlock the Front Keys:** Tap to lock or unlock the front keys (, ,).
 - **Zoom note:** Tap to open the zoom box for a detailed note. To close the zoom box, tap again.
 - **Cover:** Tap to select the desired cover style.
 - Tap to send the note via Gmail, Email, or other apps.
- 4 Tap to save the note.

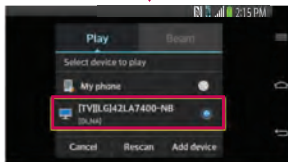
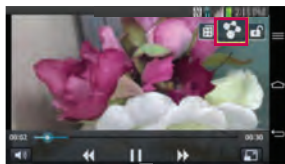
SmartShare

You can use the SmartShare feature easily in the Gallery, Music, Videos app, etc.

Enjoy the Content Via a Variety of Devices

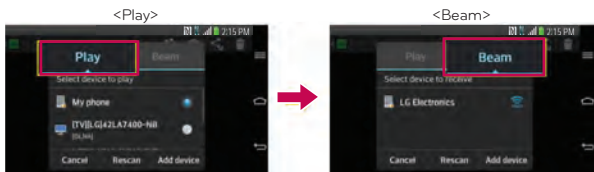
You can share your phone's content with a variety of devices.

Tap  to share the content using various apps, such as the Gallery, Music, Videos app, etc.



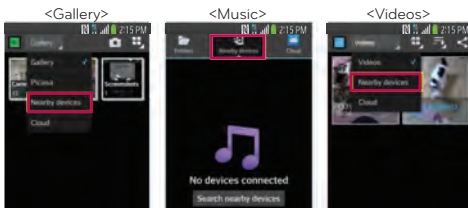
Playing/Sending

- **Play:** You can play the content via a TV or a Bluetooth speaker.
- **Beam:** You can send the content to the device of Bluetooth and SmartShare Beam supported.
 - **SmartShare Beam:** Transferring the content feature fast via Wi-Fi Direct.



Enjoy the Content from Nearby Devices

You can enjoy your phone's content with a variety of devices (i.e., PC, NAS, Mobile) in the Gallery, Music, Videos app.



Connecting Devices

Connect your device and other devices supported by DLNA in the same Wi-Fi network.

Utilities

Searching Other Devices

- 1 Tap **Nearby devices**, then you can see the DLNA-supported devices.
- 2 Connect to the device to view the content.


Using Content from the Cloud

You can use content from the cloud (i.e., Dropbox) in the Gallery, Music, Videos app, etc.





Using the Cloud

NOTE:


The supported features may vary depending on the cloud. Retrieving data may take some time depending on the cloud.

- 1 Select **Cloud**  in the Gallery, Music, Videos app, etc.
- 2 Select the cloud what you want to use and log in.
- 3 You can use the contents of the cloud after logging in.
- 4 Set the cloud settings to select the app to use the cloud.





Setting an alarm

- 1 From the Home screen, tap the **Apps Key**  and tap **Alarm/Clock** .
- 2 To add a new alarm, tap the **Alarms** tab  tab (if necessary).
- 3 Tap  and set the alarm time.
- 4 Set any desired options and tap **Save**.


NOTE:

When viewing the alarms screen, tap the **Menu Key**  > **Delete all** to delete all of the alarms or tap **Settings** to adjust the alarm settings.




Using the calculator

- 1 From the Home screen, tap the **Apps Key**  and tap **Calculator** .
- 2 Tap the number keys to enter numbers.
- 3 For simple calculations, tap the function you want , followed by .




NOTE:

For more complex calculations, tap the **Menu Key** , tap **Scientific calculator**.

Adding an event to your calendar

- 1 From the Home screen, tap the **Apps Key**  and tap **Calendar** .
- 2 To view an event, tap the date. The events occurring on that date are displayed below the Calendar in Month view. Tap the event to view its details. If you want to add an event, tap  at the top right corner of the Calendar.
- 3 Tap the **Event name** field and enter the event name. Check the date and enter the start and end time you want your event to begin and finish.
- 4 Tap the **Location** field to enter the location.
- 5 To add a note to your event, tap the **Description** field and enter the details.
- 6 To repeat the event, set **REPEAT** and **REMINDERS**, if necessary.
- 7 Tap **Save** to save the event in the calendar. An alarm will sound at the event start time if you set it.

Changing your calendar view

- 1 From the Home screen, tap the **Apps Key**  and tap **Calendar** .
- 2 At the top of the Calendar, tap  and choose from **Day**, **Week**, **Month**, **Year**, **Agenda**, or **Life Square**.



Task Manager

You can manage your applications using Task Manager. You can easily check the number of applications that are currently running and shut down certain applications.

Tasks

This task can be synchronized with MS Exchange account. You can create task, revise it and delete it in MS Outlook or MS Office Outlook Web Access.

To Synchronize MS Exchange

- 1 From the Home screen, tap the **Apps Key**  > **Settings**  > **General** tab.
- 2 Tap **Accounts & sync** > **Add account**.
- 3 Tap **Microsoft Exchange** to add your MS Exchange account.
- 4 Make sure you checkmark **Tasks**.

POLARIS Viewer 5

POLARIS Viewer 5 is a professional mobile office solution that lets users conveniently view various types of office documents, including Word, Excel and PowerPoint files, anywhere or anytime, using their mobile devices.

From the Home screen, tap **Apps Key**  > **POLARIS Viewer 5** .

Viewing files

Mobile users can now easily view a wide variety of file types, including Microsoft Office documents and Adobe PDF, right on their mobile devices. When viewing documents using POLARIS Viewer 5, the objects and layout remain the same as in the original documents.

- 1 Open the **POLARIS Viewer 5** app and select the type of document you are searching for from the top of the screen.
- 2 Choose the document you want to view.

The Web

Browser

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

NOTE:


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

Using options

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

Refresh - Allows you to reload the current web page. When the page is currently loading, the option displayed is **Stop**.

Back - Allows you to go to the back web page.

Forward - Allows you to go to the web page you visited before choosing the Back option or tapping the **Back Key** .

New tab - Opens a new tab.

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

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

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

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

Desktop view - Allows you to change the current mobile page to a desktop page.


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

Capture plus - Allow you to capture the current web page from top to bottom without cutting.


Print - Allows you to print the screen.

Settings - Opens the Browser settings.

Adding bookmarks

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

Changing the Browser settings

- 1 Open the Browser and tap the **Menu Key**  > **Settings**.
- 2 Set any of the available options.

Settings

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



To open the Settings application

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



Networks tab

Airplane mode

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

- 1 From the Home screen, tap the **Menu Key**  > **System settings**.
- 2 Select the **Networks** tab.
- 3 Tap the **Airplane mode** switch  to turn it on.
- 4 Tap the switch again to turn it off.

OR



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

Settings

Wi-Fi

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

Turn on Wi-Fi





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

OR

From the Home screen, tap the **Menu Key**  and tap **System settings** > **Networks** tab. Then tap the **Wi-Fi** switch  to turn it on.

To connect to a Wi-Fi Network

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

- 1 From the Home screen, tap the **Menu Key**  and tap **System settings** > **Networks** tab > **Wi-Fi**.
- 2 Tap the **Wi-Fi** switch  to turn it on and begin scanning for available Wi-Fi networks.
 - A list of available Wi-Fi networks will be displayed. Secured networks are indicated by a lock icon .
- 3 Tap a network to connect to it.
 - If the network is open, you are prompted to confirm that you want to connect to that network by tapping **Connect**.
 - If the network is secured, you are prompted to enter a password or other credentials. (Ask your network administrator for details).
 - Tap the **Menu Key**  to access additional options.
- 4 The Status Bar at the top of your screen will display an icon that indicates your Wi-Fi status.

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


NOTE:

- Access to the Internet and a wireless router required. As an added convenience, T-Mobile has shipped certain smartphones with Wi-Fi enabled as a default setting. Leaving Wi-Fi enabled when not connected to a Wi-Fi network may affect battery charge. Qualifying data plan required.
- This device supports WEP, WPA/WPA2-PSK and 802.1x EAP. (Some EAP methods are not supported.) If your Wi-Fi service provider or network administrator sets encryption for network security, enter the key in the pop-up window. If encryption is not set, this pop-up window will not be shown. You can obtain the key from your Wi-Fi service provider or network administrator.


Bluetooth

Bluetooth is a short-range communications technology that allows you to connect wirelessly to a number of Bluetooth devices, such as headsets and hands-free car kits, and Bluetooth-enabled handhelds, computers, printers, and wireless devices. The Bluetooth communication range is usually up to approximately 30 feet.

Turn on Bluetooth


From the Home screen, tap the **Menu Key**  > **System settings** > **Networks** tab, then tap the **Bluetooth** switch  to turn on the Bluetooth functionality.

To visible my phone from other devices.

- 1 From the Home screen, tap the **Menu Key**  > **System settings** > **Networks** tab > **Bluetooth**.
- 2 Make sure Bluetooth is turned on.
- 3 Tap the check box next to the device name. Visibility is set to 2 minutes by default.

Settings

NOTE:

To change the visibility time length, tap the **Menu Key**  > **Visibility timeout**. Choose from **2 minutes**, **5 minutes**, **1 hour**, or **Never time out**.

To scan other Bluetooth devices.

- 1 Access the Bluetooth menu and make sure that it is on.
- 2 Tap **Search for devices**.

NOTE:

To find the other devices, make it discoverable mode.

Pairing Bluetooth devices

- 1 Access the Bluetooth menu and make sure that it is on.
- 2 Tap **Search for devices**. Your device will display a list of discovered in-range Bluetooth devices.
- 3 Tap the device you want to pair from the list.
- 4 Depending on the type of device, you will have to enter a matching code, confirm matching codes, or the devices will automatically pair.

NOTE:

Pairing between two Bluetooth devices is a one-time process. Once a pairing has been created, the devices will continue to recognize their partnership and exchange information.

TIP! Please consult documentation included with Bluetooth device for information on pairing mode and passcode (typically 0 0 0 0 – four zeroes).

How to send data from your phone via Bluetooth

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

- * **Sending pictures:** Open the **Gallery** application and tap a picture. Then tap  > **Bluetooth**. Check the devices if Bluetooth is turned on. Then tap the device you want to send data to from the list.
- * **Sending contacts:** Open the Contacts application. Tap the contact you want to share, then tap the **Menu Key**  > **Share** > **Bluetooth**. Check if Bluetooth is turned on and tap **Search for devices**. Then tap the device you want to send data to from the list.

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

- Due to different specifications and features of other Bluetooth-compatible devices, display and operations may be different, and functions such as transfer or exchange may not be possible with all Bluetooth compatible devices.
- Supported profiles are HFP/HSP, A2DP, AVRCP, OPP, FTP(Server), HID, MAP and PBAP.

To switch between a Bluetooth headset and the phone

When a Bluetooth headset is paired and connected to your phone, you can conduct calls on the headset for hands-free conversation. During a call, you can opt to use the Bluetooth headset or just the phone. When using the Bluetooth headset during a call, the Ongoing Call notification icon is blue in the Status Bar (the icon is green when using the phone).

NOTE:

Tap the Bluetooth button to switch the call from the phone to the Bluetooth device, or vice versa.

Settings

Mobile data

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

Mobile data - Tap the switch  to enable mobile data.

Limit mobile data usage - Checkmark to set the mobile data usage limit.

Data usage cycle - Allows you to change the data usage cycle to display in the graph.

NOTE:

Tap an application to view data usage information.

Call

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

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

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

Wi-Fi Calling

Important!

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

About Wi-Fi Calling

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

- To use Wi-Fi Calling, you must first turn on Wi-Fi, connect to a Wi-Fi network, and then turn on Wi-Fi Calling.
- When the Wi-Fi Calling feature is on, your phone displays the Wi-Fi Calling icon on the Status Bar.
- To stay on a Wi-Fi call, you must remain within range of the Wi-Fi network. Your call will drop as you leave the Wi-Fi range. When your Wi-Fi signal weakens, your phone will beep and display a warning message alerting you that your call will drop if the signal gets weaker.

Wi-Fi Calling offers three connection options:

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

Incoming call pop-up – Displays an incoming call pop-up when an app is in use.

Call reject – Allows you to set call rejection and manage the reject list.

Decline with message – When you want to reject a call, you can send a quick message instead. This is useful if you need to reject a call during a meeting. This menu allows you to manage the messages you can send.

Privacy keeper – Hides the caller name and number for an incoming call.

Call forwarding – Allows you to set the call forwarding options.

Auto answer – Automatically answer after the set time, when handsfree is connected.

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

TTY mode – Allows you to activate TTY mode.

Hearing aids – Allows you to turn on hearing aid compatibility.

Voice enhancement – Allows you to suppress background noise during a call.

Settings

Power button ends call – Allows you to end the call by pressing the Power/Lock Key.

Call barring – Tap to lock incoming and/or outgoing international calls.

Call duration – View the duration of calls including Last call, Outgoing calls, Incoming calls and All calls.

Additional settings – Allows you to change the following settings:

Caller ID: Allows you to set the call forwarding options.

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



Share & connect

Allows you to transfer data and media with other devices.

NFC

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



To turn on NFC:

- 1 From the Home screen, tap the **Menu Key**  > **System settings**.
- 2 Tap **Share & connect** and tap the **NFC switch** .

Direct/Android Beam

When this feature is turned on, you can beam app content to another NFC-capable device by holding the devices close together. For example, you can beam Browser pages, YouTube videos, contacts, POLARIS Viewer 5 files, and more. Just bring the devices together (typically back to back) and then touch your screen. The app determines what gets beamed.

To activate Direct/Android Beam:

From the Home screen, tap the **Menu Key**  > **System settings** > **Share & connect** > **Direct/Android Beam** .



NOTE:

You must enable NFC to activate Direct/Android Beam.

SmartShare Beam

Allows you to receive multimedia content from LG phones or tablets.

To activate SmartShare Beam:



From the Home screen, tap the **Menu Key**  > **System settings** > **Share & connect** > **SmartShare Beam**. Then tap the switch  to activate SmartShare Beam and set the desired options.

NOTE:

You must enable Wi-Fi to activate SmartShare Beam.

Miracast

You can mirror phone screen and sound onto LG Miracast dongle or TV wirelessly.


- 1 From the Home screen, tap the **Menu Key**  > **System settings**.
- 2 Tap the **Networks** tab.
- 3 Tap **Share & connect** > **Miracast**.
- 4 Tap the switch  to turn on the feature.
- 5 Turn on the Miracast feature on your TV or connect to the LG Miracast dongle.

TIP! To start the Miracast feature quickly, tap the Miracast icon in the Notification Panel. While mirroring, Mobile Hotspot cannot be used simultaneously.

Settings

Wireless storage

To manage files on your phone in the computer or copy files to the phone from the computer without a USB connection.

- 1 Tap  to activate Wireless storage.
- 2 Make sure that the phone and computer are connected to the same network.
- 3 Enter the URL shown on your phone in the address bar of the browser on your computer.



Tethering & networks

Allows you to configure mobile networks, tethering, and VPNs (Basic VPN, LG VPN).

USB tethering

You can use your phone to provide a data connection to a computer by activating data tethering and connecting them with a USB cable.


To tether your phone with your computer using the USB

- 1 Connect your phone to your computer with a USB cable.
- 2 Tap the **Menu Key**  > **System settings** > **Networks** tab > **Tethering & networks**. Then tap the **USB tethering** switch  to activate the feature.

NOTE:

Data Tethering requires an appropriate data plan. Devices connected by tethering use data from your plan. Plans are not unlimited and significant charges may be incurred if the included data allowance is exceeded. Performance may vary depending on the number of devices connected and other factors.

Mobile HotSpot

You can also use your smartphone to provide a mobile broadband connection for up to 8 other devices. Create a hotspot and share your connection. To create a portable hotspot, from the Home screen, tap the **Menu Key** (≡) > **System settings** > **Networks** tab > **Tethering & networks** > **Mobile HotSpot**. Then tap the **Mobile HotSpot** switch  to activate the feature. Tap **Configure Mobile HotSpot** to change the SSID, password, security type, and other hotspot options.

NOTE:

Mobile HotSpot requires an appropriate data plan. Devices connected to your Mobile HotSpot use data from your plan. Plans are not unlimited and significant charges may be incurred if the included data allowance is exceeded. Performance may vary depending on the number of devices connected and other factors. If you do not use a password, others will be able to use your Mobile HotSpot connection.

Help

Tap to view help information on the Mobile HotSpot and USB tethering functions.

Wi-Fi Calling

Refer to page 108 for Wi-Fi calling.

Mobile networks

This menu allows you to set and view various mobile network information.

Data enabled - Select whether to enable or disable data access.

Data roaming - Select whether to enable or disable data access while roaming.

Network mode - Allows you to choose your preferred network mode.

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

Network operators - Allows you to select a network operator (if necessary).

Settings

VPN

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

Prepare Your Device for VPN Connection

Depending on the type of VPN you are using at work, you may be required to enter your login credentials or install security certificates before you can connect to your company's local network.

You can get this information from your network administrator. Before you can initiate a VPN connection, you must set the screen lock option (Pattern, PIN, or Password only).

Add a Basic VPN Connection

The Basic VPN menu allows you to use the built-in Android VPN client supporting basic features.

- 1 From the Home screen, tap the **Menu Key**  > **System settings**.
- 2 Select the **Networks** tab.
- 3 Tap **Tethering & networks** > **VPN** > **Basic VPN** > **Add Basic VPN network**.


NOTE:

You must change your screen lock before you use credential storage. You can set a pattern, PIN, or password.

- 4 Enter the VPN network according to the security details you have obtained from your network administrator.
- 5 When finished, tap **Save**.

Add a LG VPN Connection

The LG VPN menu allows you to use the advanced LG VPN client supporting full IPSec features and interoperability.

- 1 From the Home screen, tap the **Menu Key**  > **System settings**.
- 2 Select the **Networks** tab.
- 3 Tap **Tethering & networks** > **VPN** > **LG VPN** > **Add LG VPN network**.

NOTE:

You must set the local key store password before you use LG VPN credential storage.

- 4 Enter the VPN network according to the security details you have obtained from your network administrator.
- 5 When finished, tap **Save**.

Sound tab

Sound profile

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


Volumes

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

Vibrate strength

Allows you to set the vibrate strength for calls, notifications, and touch feedback.

Quiet mode

Tap the **Quiet mode** switch  to enable this function. Tap **Quiet mode** to set the days and times to automatically turn off all sounds except for alarms and media and to set allowed calls during the quiet mode.

Phone ringtone

Select the ringtone for incoming calls.

Smart ringtone

Select to automatically increase the volume of the ringtone when outside noise is loud.

Settings

Incoming call vibration

Allows you to choose the type of vibration for incoming calls.

Gentle vibration

Gradually increases vibration up to the currently set strength.

Ringtone with vibration

Checkmark for vibration feedback for calls.

Voice notifications

Read out incoming call and message event automatically.

Notification sound

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

Touch feedback & system

Allows you to set dial pad touch tones, touch sounds, screen lock sound, and vibrate on touch.

Dial pad touch tones

Allows you to play tones when using dial pad.

Touch sounds

Allows you to play sound when making screen selection.

Screen lock sound

Allows you to play sound when locking and unlocking the screen.

Vibrate on touch

Allows you to vibrate when tapping the front key and on certain UI interactions.

Display tab

Home screen

Select Home - Sets the home style for your device. Choose **Home** or **EasyHome**.

Theme - Sets the screen theme for your device. Choose **Flex** or **LG**.

Wallpaper - Allows you to set the wallpaper.

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

Allow Home screen looping - Loops back to the first canvas after scrolling past the last canvas when viewing the Home screen.

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

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

Help - Touch to get information on using the Home screen of your device.

Lock screen

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

None - No lock screen.

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

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

Pattern - Allows you to set a pattern as your screen lock. It's recommended that you enter a backup PIN as well in case you forget the pattern.

PIN - Enter a numeric PIN to unlock the screen.

Password - Enter a password to unlock the screen.

Swing Lock screen - Tilt your phone up or down to move Lock screen naturally in that direction. Tap to view the screen with emotional effect.

Screen swipe effect - Select the screen effect you want to use when unlocking the screen.

Settings

Weather animation - Displays a weather animation for the current location or primary city set in the Weather app based on auto data updates.

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

Shortcuts - Customize shortcuts on the lock screen.

1 From the Home screen, tap the **Menu Key**  > **System settings** > **Display** tab > **Lock screen** > **Shortcuts**.

2 Select one of the shortcut icons that you want to replace. Then select the app you want to replace it with and tap **Save**.

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

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

Power button instantly locks - Checkmark to instantly lock the screen when the

Power/Lock Key  is pressed.

Front touch buttons

Select the front touch button combination, color, background, and set the one-handed and advanced options.

Brightness

Adjust the screen brightness by using the slider. Tap **Auto** to set the brightness to automatically change.

Screen timeout

Set the time delay before the screen automatically turns off.

Screen-off effect

Set the screen off effect used when the screen turns off.

Auto-rotate screen

Set to switch orientation automatically when you rotate the phone.

Screen mode

Set the screen mode. Choose from **Standard**, **Vivid**, or **Natural**.

Daydream

Select the screensaver to display when the phone is sleeping while docked and/or charging.

Font type

Select the desired font type.

Font size

Select the desired font size.

Smart screen

Checkmark this to keep screen on when the phone detects your face looking at the screen.

Smart video

Checkmark this to pause videos while playing automatically when the phone detects you are not looking at the screen.

Notification LED

Select which type of notifications to display the front or back side LEDs for.

Auto-adjust screen tone

Checkmark to save battery power by adjusting screen brightness automatically with analysis of image color.

Screen capture area

Allows you to set the area captured by screen shots. Choose from **Capture full screen** or **Capture part of screen**.

Aspect ratio correction

Change the resolution size of downloaded applications to fit the screen size.

Settings

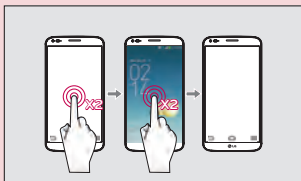
General tab

Gestures

Screen on/off - You can set the phone to turn the screen on by quickly double-tapping the phone. Tap an empty area in the Home screen, Status Bar, and Lock screen to turn the screen off.

NOTE:

Tap on the center area. If you tap on the bottom or the top area, the recognition rate may not be decreased. This feature is also available using the QuickWindow case.



Answer an incoming call - During the incoming call, bring the phone to ear to accept the incoming call.

NOTE:

Do not cover the proximity sensor. Doing so will cause the phone to behave incorrectly.

Fade out ringtone - During the incoming call, pick up the phone from the flat surface to fade out the ringtone.

NOTE:

Do not cover the proximity sensor. Doing so will cause the phone to behave incorrectly.

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

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

Pause video - Flip the device to pause the video.

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

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

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

One-handed operation

Allows you to adjust the position of the dial keypad, LG keyboard, or lock screen left or right side of the screen to easily use it with one hand.

Dial keypad - Checkmark to allow you to adjust the position of the dial keypad to the left or right.

LG keyboard - Checkmark to allow you to adjust the position of the LG keyboard to the left or right.

Gesture control - Checkmark to allow you to swipe the keyboard to the left or right to adjust the position of the LG keyboard.

Lock screen - Checkmark to allow you to adjust the position of the the PIN entry to the left or right.

Swipe front touch buttons - Checkmark to allow you to swipe the front touch buttons left or right to adjust the position of buttons.

Help - Displays help information for each available option.

Storage

You can monitor the used and available internal memory in the device.

Battery

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

Battery percentage on status bar - Displays the battery percentage on the Status Bar.

Settings

Battery saver

Tap the switch  to turn this feature on. Tap the switch again to turn it off.

Tap **Battery saver** for the following options.

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

Auto-sync: Turns off Auto-sync.

Wi-Fi: Turns off Wi-Fi if not in use.

Bluetooth: Turns off Bluetooth if not connected.

Vibrate on touch: Turns off touch feedback.

Brightness: Adjusts the brightness.

Auto-adjust screen tone: Turns on auto-adjust screen tone when Battery saver is activated.

Screen timeout: Adjusts the screen timeout.

Notification LED: Turns off the notification LED.

Help - Touch to access help information for Battery saver.



Apps

You use the Apps settings menu to view details about the applications installed on your phone, manage their data, force them to stop, and to set whether you want to permit installation of applications that you obtain from websites and email. Swipe to the left or right to access the DOWNLOADED, RUNNING or ALL tabs to view information about your installed apps.

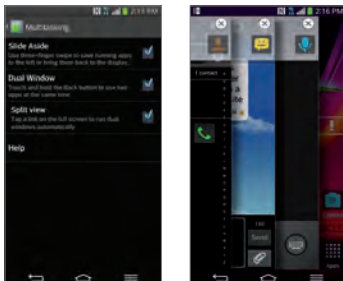
Multitasking

Slide Aside

Slide Aside allows you to quickly switch between three open applications (or tasks) using a three finger gesture.

- 1 From the Home screen, tap the **Menu Key**  > **System settings** > **General** tab > **Multitasking**.
- 2 Tap the **Slide Aside** checkbox to enable/disable the feature.
- 3 Tap the **Home Key**  and open an app.
- 4 Place three fingers on the screen and drag the app off the screen to the left.



- 5 To bring the app back, drag three fingers to the right.



*Some apps may restart when brought back later.

Dual Window

The Dual Window feature splits the screen to enable multi-tasking, drag and drop interaction, auto-linking and recently used apps.

- 1 From the Home screen, tap **Home Key**  > **Menu Key**  > **System settings** > **General** tab > **Multitasking**.
- 2 Tap the **Dual Window** checkbox to enable/disable the feature.

NOTE:

Refer to the Dual window section on page 47 for more information.

Split view

When you select a link on the full screen, the linked contents are displayed on a split screen.

Help

Allows you to view the help information for multitasking features.

Settings

Accounts & sync

Use the Accounts & sync settings menu to add, remove, and manage your Google and other supported accounts. You also use these settings to control how and whether all applications send, receive, and sync data on their own schedules and whether all applications can synchronize user data automatically. Gmail, Calendar, and other applications may also have their own settings to control how they synchronize data; see the sections on those applications for details. Touch **Add account** to add new account.

Cloud

Register and add cloud account to quickly and easily use cloud service on LG apps.

NOTE:

If the mobile network is enabled, additional charges may apply, depending on your plan.


Guest mode



Use Guest mode when you let someone else use your phone. They will only be able to use the applications that you've selected. Once you set it up, you can easily put your phone in Guest mode by drawing the guest pattern on the Lock screen that you set, which is different from your normal unlock pattern.

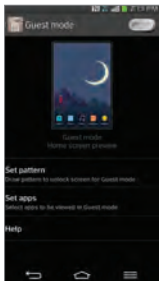
NOTE:

Guests can also use applications that your selected applications link to.

Setting up Guest mode

- 1 From the Home screen, tap the **Menu Key**  > **System settings** > **General** tab > **Guest mode**.
- 2 Tap **Set pattern**, then set the pattern you want to use to put your device in Guest mode.

- 3 Tap **Set apps** to view which apps can be accessed in Guest mode. Tap the **Add** icon  in the upper right corner of the screen to change the Guest apps list.
- 4 Tap the **Use Guest mode** switch  to enable this mode.




Using Guest mode

After you've set up and enabled Guest mode, lock the screen so that you can enter your Guest mode pattern. The Guest mode Home screen is displayed with only the apps you've selected for guest access. To exit Guest mode, enter your normal unlock pattern on the Lock screen.

NOTE:

Guest mode is turned off automatically if your lock sequence is changed from Pattern. Otherwise, manually disable it if you no longer want to allow guest access.

Location access

Use the Location access menu to set your preferences for using and sharing your location when you search for information and use location-based applications, such as Maps. Tap the **Access to my location** switch  to enable the location sources.

Settings

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

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

Security

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

Encrypt phone - Allows you to encrypt data on the phone for security. You will be required to enter a PIN or password to decrypt your phone each time you power it on.

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

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

Phone administrators - Add or remove phone administrators.

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

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

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

Install from storage - Touch to install a secure certificate.

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


Language & input

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

Language - Choose a language to use on your phone.

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

Default - Allows you to select the default keyboard type.

Checkmark the keyboard you want to use from **Google voice typing** and **LG Keyboard**. Tap  to configure each keyboard's settings.

Voice Search - Touch to configure the Voice Search settings.

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

Pointer speed - Adjust the pointer speed (e.g., mouse, trackpad).


Backup & reset

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

Backup account - Displays the account that is currently being used to back up information.

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

Collect diagnostics - Allows you to use the Diagnostics system manager application. Consistent with your carrier's privacy policy, this software collects diagnostics data so that your carrier can better troubleshoot technical issues with your device or service.

LG Backup service - Backup, scheduled backup, restore and quick data transfer are available. Tap **Menu Key**  > **Help** for more information.

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

Settings

Date & time


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

Accessibility

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


NOTE:

Requires additional plug-ins to become selectable.

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

Install web scripts - Allows you to enable (or disable) installation of web scripts.

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




Invert color - Sets the color contrast for better screen viewing. Tap the switch  at the top right corner of the screen to turn it on. Then tap the screen and drag across the screen in any direction until you see the color contrast you want to use.

Magnification gestures - This feature is turned on, you can zoom in and out by triple-tapping the screen.

Shades - Set the brightness to 0% to save power and help with low vision.

Mono audio - Checkmark to allow headset sound to be routed to both the right and left channel. To manually set the audio route, move the slider on the mono audio slide bar.


Touch & hold delay - Sets the touch and hold delay (short, medium, or long).

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

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

Speak passwords - Checkmark so that you can say your log in passwords (instead of typing your passwords).

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

Easy access - Turning this feature on allows you to activate an accessibility feature by tapping the **Home Key**  three (3) times. Select an accessibility option to use with this feature from **Off, Show all, TalkBack, Invert color, Universal touch, and Accessibility settings**.

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

PC connection

Select USB connection method - Opens a dialog box to choose the default connection mode when connecting your phone to a PC via USB. Choose from **Charge phone, Media sync (MTP), LG software, or Send images (PTP)**.

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

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

PC Suite - Allow Wi-Fi connection to transfer music and images between your computer and phone. Refer to page 134 for more information.

On-Screen Phone - Turns the On-Screen Phone function on so that you can receive Wi-Fi connection requests. Refer to page 131 for LG On-Screen Phone.

Help - Displays help information for the PC Suite and the On-Screen Phone function.

Accessory

QuickWindow case - Activate the QuickWindow case which lets you see a small portion of the screen with the cover closed.

Settings

USB storage - Activate to display the app panel automatically when USB storage is connected to the phone via OTG (On-the-Go) USB cable. Tap the apps you want to be displayed.

Earphone - Activate to display the app panel automatically when an earphone is connected to the phone. Tap the apps you want to be displayed.

About phone

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

Regulatory and Safety

Go to **System settings** > **General** tab > **About phone** > **Regulatory and Safety** to get regulatory and safety information.

LG SOFTWARE

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

On-Screen Phone icons



Changes the On-Screen Phone preferences.



Connects your mobile phone to your PC, or disconnects it.



Minimizes the On-Screen Phone window.



Maximizes the On-Screen Phone window.



Exits the On-Screen Phone program.

On-Screen Phone features

- **Real-time transfer and control:** Displays and controls your mobile phone screen when connected to your PC.
- **Mouse control:** Allows you to control your mobile phone by using the mouse to click and drag on your PC screen.
- **Text input with keyboard:** Allows you to compose a text message or note using your computer keyboard.
- **File transfer (mobile phone to PC):** Sends a file from your mobile phone (e.g. Gallery, Video Player, Music and POLARIS Viewer 5) to your PC. Simply right-click on the file and drag it to send it to your PC.
- **File transfer (PC to mobile phone):** Sends files from your PC to your mobile phone. Just select the files you wish to transfer and drag and drop them into the On-Screen Phone window. The sent files are stored in the OSP folder.

LG On-Screen Phone

NOTE: Please make sure that LG Home is the default launcher.

- **Real-time event notifications:**


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

How to install On-Screen Phone on your PC

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

How to connect your mobile phone to your PC

On-Screen Phone provides, USB, and Wi-Fi connection. Please follow the instructions on the Connection Wizard of the On-Screen Phone program.

NOTE: To use On-Screen Phone using Wi-Fi connection, from the Home screen tap the **Menu Key**  > **System settings** > **General** tab > **PC connection** > **On-Screen Phone** checkbox is selected.

Please make sure that the battery may run out more quickly due to the current consumption if On-Screen Phone is connected via Wi-Fi.


When you connect your mobile phone to your PC via Mobile Hotspot and access to the Internet on the PC, additional data charges may be incurred depending on your data plan.

Access to the Internet using Wi-Fi networks may not work well depending on the network's traffic. When you enlarge the On-Screen Phone window, the display on the screen might become slow.

To check the phone-to-PC connection

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

To disconnect your phone from your PC

Click  in the top left of the On-Screen Phone window. Alternatively, drag the Status Bar down and select **On-Screen Phone connected** > **OK**.

LG PC Suite

LG PC Suite helps you manage media contents and applications in your phone by allowing you to connect to your phone to your PC.

With the LG PC Suite software, you can...

- Manage and play your media contents (music, movie, picture) on your PC.
- Send multimedia contents to your device.
- Backup the applications in your device.
- Update your device's software.
- Play multimedia contents of your PC from your device.
- Backup, create, and edit the memos in your device.

NOTE:

You can use the Help menu from the application to find out how to use the LG PC Suite software.

Installing the LG PC Suite Software

To download the LG PC Suite software, please do the following:

- 1 Go to www.lg.com/us.
- 2 Go to **SUPPORT > MOBILE SUPPORT > PC Sync**.
- 3 Select the model information and click **GO**.
- 4 Scroll down, select the **PC Sync** tab and click **DOWNLOAD** to download LG PC Suite.

System Requirements for LG PC Suite software

- OS: Windows XP (Service pack 3) 32bit, Windows Vista, Windows 7, Windows 8
- CPU: 1 GHz or higher processors
- Memory: 512 MB or higher RAMs
- Graphic card: 1024 x 768 resolution, 32 bit color or higher
- HDD: 500 MB or more free hard disk space (More free hard disk space may be needed depending on the volume of data stored.)
- Required software: LG integrated drivers, Windows Media Player 10 or later.

NOTE: LG Integrated USB Driver

The LG integrated USB driver is required to connect an LG device and PC. It is installed automatically when you install the LG PC Suite software application.

Phone software update

Phone software update


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


<http://www.lg.com>

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

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

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

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

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

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

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

Trademarks

Trademarks

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NOTICE: Open Source Software

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

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

Dolby Digital Plus



Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.

Accessories

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

Travel adapter



Data cable

Connect your phone and PC.



User Guide

Learn more about your phone.



Micro SIM ejection tool



NOTE:

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

Troubleshooting

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

Message	Possible causes	Possible corrective measures
Micro SIM error	There is no Micro SIM card in the phone or it is inserted incorrectly.	Make sure that the Micro SIM card is correctly inserted.
No network connection/ Dropped network	Signal is weak or you are outside the carrier network.	Move toward a window or into an open area. Check the network operator coverage map.
	Operator applied new services.	Check whether the Micro SIM card is more than 6~12 months old. If so, change your Micro SIM at your network provider's nearest branch. Contact your service provider.
Codes do not match	To change a security code, you will need to confirm the new code by re-entering it.	If you forget the code, contact your service provider.
	The two codes you have entered do not match.	

Troubleshooting

Message	Possible causes	Possible corrective measures
No applications can be set	Not supported by service provider or registration required.	Contact your service provider.
Calls not available	Dialling error	New network not authorized.
	New Micro SIM card inserted.	Check for new restrictions.
	Pre-paid charge limit reached.	Contact service provider or reset limit with PIN2.
Phone cannot be switched on	Power/Lock Key pressed too briefly.	Press the Power/Lock Key for at least two seconds.
	Battery is not charged.	Charge battery. Check the charging indicator on the display.

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

Troubleshooting

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

For Your Safety

Safety Information

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

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

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

- The flexibility of this product is limited to withstand ordinary and normal use. This phone may be bent flat up to 180 degrees for a limited period of time but should not be bent inward. Damages caused by misuse, including but not limited to intentionally bending or continually exerting force on the product, may lead to permanent damage to the display and/or other parts and functions of the phone.
- For your safety, do not remove the battery incorporated in the product.
- Do not disassemble or open crush, bend or deform, puncture or shred.
- Only use the battery with a charging system that has been approved and qualified with the system per IEEE-Std-1725. Use of an unqualified and non-LG-approved 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.
- Repairs under warranty, at LG's option, may include replacement parts or boards that are either new or reconditioned, provided that they have functionality equal to that of the parts being replaced.
- 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.
- Avoid dropping the phone. If the phone is dropped, especially on a hard surface, and the user suspects damage, take it to a service center for inspection.

For Your Safety

- Improper battery use may result in a fire, explosion or other hazard.
- For those host devices that utilize a USB port as a charging source, the host device's user manual shall include a statement that the phone shall only be connected to products that bear the USB-IF logo or have completed the USB-IF compliance program.

Charger and Adapter Safety

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

Battery Information and Care

- Please read the manual of specified charger about charging method.
- Do not damage the power cord by bending, twisting, or heating. Do not use the plug if it is loose as it may cause electric shock or fire.
Do not place any heavy items on the power cord. Do not allow the power cord to be crimped as it may cause electric shock or fire.
- Unplug the power cord prior to cleaning your phone, and clean the power plug pin when it's dirty. When using the power plug, ensure that it's firmly connected. If not, it may cause excessive heat or fire. If you put your phone in a pocket or bag without covering the receptacle of the phone (power plug pin), metallic articles (such as a coin, paperclip or pen) may short-circuit the phone. Short-circuit of the terminal may damage the battery and cause an explosion. Always cover the receptacle when not in use.
- Never store your phone in temperature less than -4 °F or greater than 122 °F.
- Charging temperature range is between 32 °F and 113 °F. Do not charge the battery out of recommended temperature range. Charging out of recommended range might cause the generating heat or serious damage of battery. And also, it might cause the deterioration of battery's characteristics and cycle life.

- The battery pack has protection circuit to avoid the danger. Do not use near places that can generate static electricity more than 100V which could damage the protection circuit. Damaged protection circuits may generate smoke, rupture or ignite.
- When using the battery for the first time, if it emits a bad smell, you see rust on it, or anything else abnormal, do not use the equipment and bring the battery to the shop which it was bought.
- Do not handle the phone with wet hands while it is being charged. It may cause an electric shock or seriously damage your phone.
- Do not place or answer calls while charging the phone as it may short-circuit the phone and/or cause electric shock or fire.
- Do not use harsh chemicals (such as alcohol, benzene, thinners, etc.) or detergents to clean your phone. This could cause a fire.
- Always unplug the charger from the wall socket after the phone is fully charged to save unnecessary power consumption of the charger.

Care and Maintenance

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

Keep your Mobile Device away from:

Liquids of any kind

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

Do not use the mobile device with a wet hand.

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

For Your Safety

Extreme heat or cold

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

Microwaves

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

Dust and dirt

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

Sunscreen lotion

Do not expose or wear your device to any liquid like sunscreen lotion. Doing so may cause your device to or damage to the mobile device.

Cleaning solutions

Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the mobile device.
Wipe it with a soft cloths lightly dampened in a mild soap-and-water solution.

Shock or vibration

Do not drop, knock, or shake the mobile device.
Rough handling can break internal circuit boards.

Paint

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

General Notice

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

- Do not place items containing magnetic components such as a credit card, phone card, bank book, or subway ticket near your phone. The magnetism of the phone may damage the data stored in the magnetic strip.
- Talking on your phone for a long period of time may reduce call quality due to heat generated during use.
- When the phone is not used for a long period time, store it in a safe place with the power cord unplugged.
- Using the phone in proximity to receiving equipment (i.e., TV or radio) may cause interference to the phone.
- Do not use the phone if the antenna is damaged. If a damaged antenna contacts skin, it may cause a slight burn. Please contact an LG Authorized Service Center to replace the damaged antenna.
- The data saved in your phone might be deleted due to careless use, repair of the phone, or upgrade of the software. Please backup your important phone numbers. (Ringtones, text messages, voice messages, pictures, and videos could also be deleted.) The manufacturer is not liable for damage due to the loss of data.
- When you use the phone in public places, set the ringtone to vibration so you don't disturb others.
- Do not turn your phone on or off when putting it to your ear.
- Your phone is an electronic device that generates heat during normal operation. Extremely prolonged, direct skin contact in the absence of adequate ventilation may result in discomfort or minor burns. Therefore, use care when handling your phone during or immediately after operation.

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

Part 15.19 statement

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

Part 15.21 statement

Any changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

Part 15.105 statement

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

Wi-Fi Caution

This device is capable of operating in 802.11a/n/ac mode. For 802.11a/n/ac devices operating in the frequency range of 5.15 - 5.25 GHz, they are restricted for indoor operations to reduce any potential harmful interference for Mobile Satellite Services (MSS) in the US.

WIFI Access Points that are capable of allowing your device to operate in 802.11a/n/ac mode(5.15 - 5.25 GHz band) are optimized for indoor use only. If your WIFI network is capable of operating in this mode, please restrict your WIFI use indoors to not violate federal regulations to protect Mobile Satellite Services.

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.

Bodily Contact During Operation

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

Caution

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

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

Consumer Information About Radio Frequency Emissions

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

Are wireless phones safe?

Scientific research on the subject of wireless phones and radio frequency ("RF") energy has been conducted worldwide for many years, and continues. In the United States, the Food and Drug Administration ("FDA") and the Federal Communications Commission ("FCC") set policies and procedures for wireless phones. The FDA issued a website publication on health issues related to cell phone usage where it states, "The scientific community at large ... believes that the weight of scientific evidence does not show an association between exposure to radiofrequency (RF) from cell phones and adverse health outcomes. Still the scientific community does recommend conducting additional research to address gaps in knowledge. That research is being conducted around the world and FDA continues to monitor developments in this field. You can access the joint FDA/FCC website at <http://www.fda.gov> (under "C" in the subject index, select Cell Phones > Research). You can also contact the FDA toll-free at (888) 463-6332 or (888) INFO-FDA. In June 2000, the FDA entered into a cooperative research and development agreement through which additional scientific research is being conducted. The FCC issued its own website publication stating that "there is no scientific evidence that proves that wireless phone usage can lead to cancer or a variety of other problems, including headaches, dizziness or memory loss." This publication is available at <http://www.fcc.gov/oet/rfsafety> or through the FCC at (888) 225-5322 or (888) CALL-FCC.

What does "SAR" mean?

In 1996, the FCC, working with the FDA, the U.S. Environmental Protection Agency, and other agencies, established RF exposure safety guidelines for wireless phones in the United States. Before a wireless phone model is available for sale to the public, it must be tested by the manufacturer and

certified to the FCC that it does not exceed limits established by the FCC. One of these limits is expressed as a Specific Absorption Rate, or "SAR." SAR is a measure of the rate of absorption of RF energy in the body. Tests for SAR are conducted with the phone transmitting at its highest power level in all tested frequency bands. Since 1996, the FCC has required that the SAR of handheld wireless phones not exceed 1.6 watts per kilogram, averaged over one gram of tissue.

Although the SAR is determined at the highest power level, the actual SAR value of a wireless phone while operating can be less than the reported SAR value. This is because the SAR value may vary from call to call, depending on factors such as proximity to a cell site, the proximity of the phone to the body while in use, and the use of hands-free devices. Before a phone model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government-adopted requirement for safe exposure. The tests are performed in positions and locations (e.g., at the ear and worn on the body) as required by the FCC for each model.

The highest SAR values are:

- * Head: 0.92 W/kg

- * Body (Body-worn/Hotspot): 1.15 W/kg

(body measurements differ among phone models, depending upon available accessories and FCC requirements).

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

The FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RF emission guidelines. SAR information on this model phone is on file with the FCC and can be found under the Display Grant section of <http://www.fcc.gov/oet/ea/fccid/> after searching on FCC ID ZNFD959.

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

Can I minimize my RF exposure?

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

Do wireless phones pose any special risks to children?

The FDA/FCC website states that "the scientific evidence does not show a danger to users of wireless communication devices, including children." The FDA/FCC website further states that "some groups sponsored by other national governments have advised that children be discouraged from using wireless phones at all". For example, the Stewart Report from the United Kingdom ["UK"] made such a recommendation in December 2000. In this report a group of independent experts noted that no evidence exists that using a cell phone causes brain tumors or other ill effects. [The UK's] recommendation to limit cell phone use by children was strictly precautionary; it was not based on scientific evidence that any health hazard exists. A copy of the UK's leaflet is available at <http://www.dh.gov.uk> (search "mobile"), or you can write to: NRPB, Chilton, Didcot, Oxon OX11 0RQ, United Kingdom. Copies of the UK's annual reports on mobile phones and RF are available online at www.iegmp.org.uk and <http://www.hpa.org.uk/radiation/> (search "mobile"). Parents who wish to reduce their children's RF exposure may choose to restrict their children's wireless phone use.

Where can I get further information about RF emissions?

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

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>

Independent Expert Group on Mobile Phones

<http://www.iegmp.org.uk>

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

World Health Organization

Avenue Appia 20

1211 Geneva 27

Switzerland

Telephone: 011 41 22 791 21 11

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

For Your Safety

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/>

TIA Safety Information

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

Exposure to Radio Frequency Signal

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

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

ANSI C95.1 (1992) *

NCRP Report 86 (1986)

ICNIRP (1996)

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

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

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

Antenna Care

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

Phone Operation

NORMAL POSITION: Hold the phone as you would any other telephone with the antenna pointed up and over your shoulder.

Tips on Efficient Operation

For your phone to operate most efficiently:

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

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.

FDA Consumer Update



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

1. Do wireless phones pose a health hazard?

The available scientific evidence does not show that any health problems are associated with using wireless phones.

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

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

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

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

- Support needed research into possible biological effects of RF of the type emitted by wireless phones;

- Design wireless phones in a way that minimizes any RF exposure to the user that is not necessary for device function; and
- Cooperate in providing users of wireless phones with the best possible information on possible effects of wireless phone use on human health.

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

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

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

The FDA shares regulatory responsibilities for wireless phones with the Federal Communications Commission (FCC). All phones that are sold in the United States must comply with FCC safety guidelines that limit RF exposure. The FCC relies on the FDA and other health agencies for safety 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

For Your Safety

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:

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

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

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

National Radiological Protection Board (UK)
(<http://www.hpa.org.uk/radiation/>)

Driving

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

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

HAC statement

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

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

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

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

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

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

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

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

The ratings are not guarantees.

For Your Safety

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.

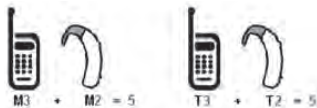
Trying out the phone with your hearing device is the best way to evaluate it for your personal needs.

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 or WLAN components must be disabled during a call.

For information about hearing aids and digital wireless phones

Wireless Phones and Hearing Aid Accessibility

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

FCC Hearing Aid Compatibility and Volume Control

http://www.fcc.gov/cgb/consumerfacts/hac_wireless.html

Limited Warranty Statement

1. WHAT THIS WARRANTY COVERS:

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

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

2. WHAT THIS WARRANTY DOES NOT COVER:

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

3. WHAT LG WILL DO:

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

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5. HOW TO GET WARRANTY SERVICE:

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

Tel. 1-800-793-8896

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

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