LG
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ENGLISH

USER GUIDE

# LG Stylo™ 5 V

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BC

MFL71485801 (1.0)

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## Before you begin using your new phone

Included in the box with your phone are separate information leaflets. These leaflets provide you with important information regarding your new device. Please read all of the information provided. This information will help you to get the most out of your phone, reduce the risk of injury, avoid damage to your device, and make you aware of legal regulations regarding the use of this device.

It's important to review the Product Safety and Warranty Information guide before you begin using your new phone. Please follow all of the product safety and operating instructions and retain them for future reference. Observe all warnings to reduce the risk of injury, damage, and legal liabilities.

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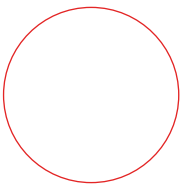
## Using the Stylus Pen

You can create a memo using the stylus. With the Pen Pop feature, you can quickly access Memo apps when you pull the stylus pen out.



- : Hides/displays the Pen Pop options. Touch and hold the icon to delete or move it.
- : Opens the Pop Memo feature to write a memo.
- : Opens Coloring book.
- : Opens Draw chat to record as you draw and share it with others. When you start drawing, it automatically records. Tap to save your drawing. Then, tap to share it. The drawing chat file will be saved as a GIF in Gallery.
- : Opens QuickMemo+. For further information, see *QuickMemo+*.
- : Add a shortcut to the app of your choice up to 5 apps. Touch and hold a shortcut app to edit the shortcuts and rearrange them.

# Camera features

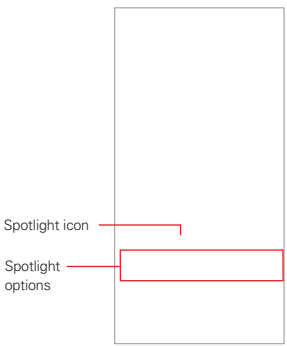
## Studio

You can create studio level photos by using Spotlight and Backdrop features in the camera.

### Spotlight

You can apply various lighting effects while taking photos.

1. Tap Home > Camera, then tap **Studio**.
2. Tap **Spotlight** to select a lighting effect.

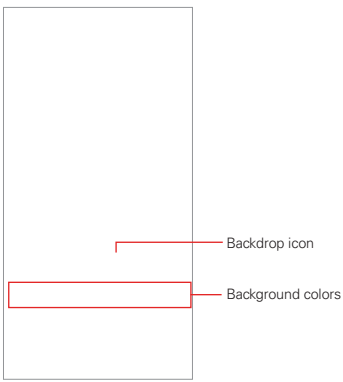



3. Tap the desired lighting effect icon.
4. When **Studio effect is available.** appears on the screen, tap **Capture** to take a photo.
   - The Studio feature may not work if the camera cannot recognize the subject.
   - While taking a selfie, tap **3D Lighting** to adjust the color temperature and brightness level. You can also change the light location by dragging **3D Lighting**.

### Backdrop

You can apply various effects for background while taking portrait photos.

1. Tap Home > Camera, then tap Studio.
2. Tap Backdrop to select a backdrop effect.
3. Select a background color you want to apply.



## Portrait

You can create an artistic portrait photo, whereby the subject is in focus and the background is blurred. You can also edit the image by applying lighting or color effect to the background.

**NOTES**
- While taking a photo, keep the distance to your subject to 1.3 ~ 5 feet.
- This feature is not available if the surroundings are too dark.

1. Tap ○ **Home** > **Camera**, and tap **Portrait**.
2. Drag the slide bar to the left or right to adjust the blur strength.

3. When **Portrait is available.** appears on the screen, tap **Capture** to take a photo.
   - The Portrait feature may not work if the camera cannot recognize the subject.

## Makeup Pro

While taking selfies, you can apply various makeup techniques.

When using the front camera, adjust the skin tone and apply eye and lip makeups.

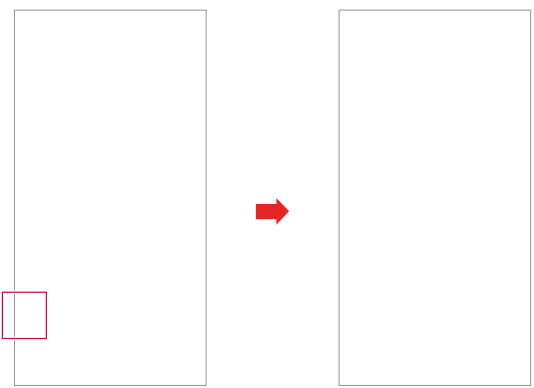
1. Tap Home > Camera, switch to the front camera, then tap Makeup Pro.
2. Select a desired makeup option, then drag the slide bar to the left or right to adjust the effect.
   - When you select None, the slide bar disappears.
3. Tap Capture to take a photo.

## AR features

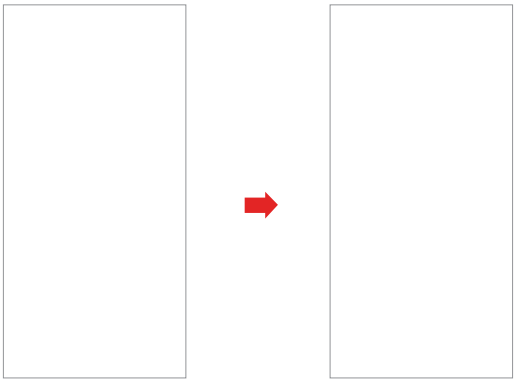
You can use various AR (Augmented Reality) features with the Camera app. You can create your own My Avatar, AR Emoji, or AR Sticker for rich content. My Avatar helps you create a cartoon version of yourself and customize it. AR Emoji help you create 3D animated animal emojis that mimic facial expression. AR Sticker allows you to choose from several different stickers to use on a photo or video while facing your camera.

### Creating My Avatar

1. Tap Home > Camera, switch to the front camera, then tap Camera effect > AR features.
2. Tap My Avatar > Create your own avatar to take a photo.
   - Follow the on-screen instructions to align your face on the screen.
   - To make My Avatar by using one of the saved photos from Gallery, tap Gallery.



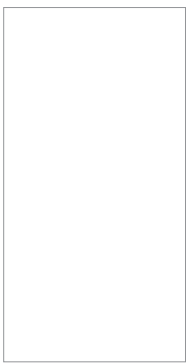
3. Select My Avatar's gender and select details including avatar type, skin tone, hairstyle, and clothes, then tap OK.



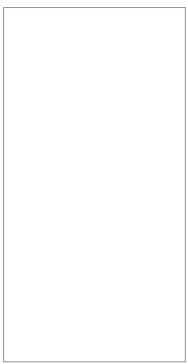
▸ Taken photos are saved in Gallery.

### Creating My Avatar, AR Emoji, AR Sticker

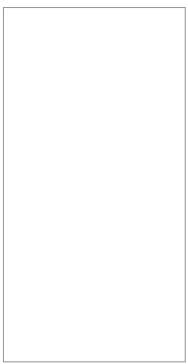
1. Tap Home > Camera, switch to the front camera, then tap Camera effect > AR features.
2. Select an option you want to record.



My Avatar



AR Emoji

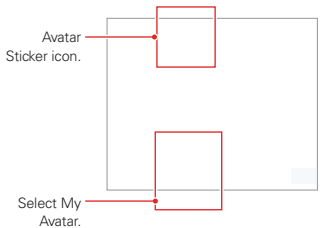


AR Sticker

3. To take a photo, tap Capture. To record a video, tap Record.
   - Taken photos are saved in Gallery.

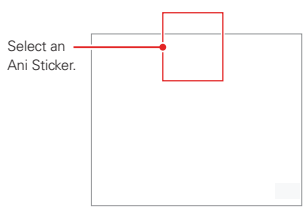
### Using Avatar Stickers

1. Tap **Avatar Sticker** on the LG Keyboard.
2. Select the desired Avatar Sticker.




### Using Ani Sticker

1. Tap **Ani Sticker** on the LG Keyboard.
2. Select the desired My Avatar.
3. Tap **Record** to record voice and video, and then tap **Stop** to save.
   - Ani Stickers with various facial expressions, motions, and voices are created.
4. Tap **Upload** to upload Ani Sticker.
   - Tap **Play** to preview the created Ani Sticker.



## AI CAM

You can use the AI Cam feature to automatically recognize the object when taking a photo or recording a video for an optimal quality.

1. Tap Home > Camera, then tap **AI CAM**.
2. When the object is recognized, the best effect for the scene is applied.
   - To apply other effects, tap the scene icon.
   - A wide range of categories, such as portrait, animals, food, sunrise, sunset, landscape, sky, beach, babies, flowers and text, can be recognized automatically.

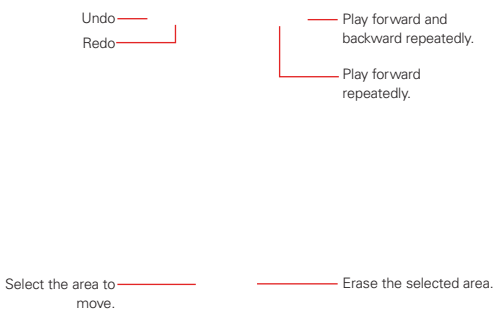
**NOTE** The result of the scene recognition may differ depending on the illumination or the location of the subject while taking photos. Keywords do not appear on the actual photos or videos.

## Cine shot

You can record a moment and make a video with only a part of the scene in motion.

While recording a video, hold the device steady. After recorded, rub the area in the video you want in motion. The selected area starts moving and the rest of the video remains still.

1. Tap Home > Camera, then tap More > Cine shot.
2. Tap Record to record a 3 second video.
   - Hold the device steady while recording the video.
3. Tap Edit and rub the area you want in motion with the cine shot effect.




   - Tap Erase to erase the selected area.
   - Tap Loops forward to play the selected area in motion forward repeatedly.
   - Tap Loops back and forth to play the selected area in motion forward and backward repeatedly.
4. Tap SAVE.
   - The selected area will be in motion.

## Cine Video

You can record a movie-like video.

1. Tap Home > Camera.
2. Tap More > Cine Video.
3. Tap Record to record a video.
   - Point Zoom: Record a video by selecting the point zoom feature to zoom in/out around a specific area.
   - Filter: Select an effect to apply to the recording. You can also adjust the vignette and strength for each Cine effect. This feature cannot be changed after you have started recording.

**NOTES**
- The Point Zoom feature supports a zoom speed of up to 3x.
- This feature only supports video recordings in standard angle.

### Graphy

You can adjust the white balance, ISO and shutter speed referring to the recommended images.

1. Tap Home > Camera.
2. Tap Manual Camera.
3. Tap Settings and then tap Graphy photos to activate the feature.
4. Tap Graphy and select the desired scene from the recommended images.
5. Tap Capture to take a photo.

**NOTES**
- This feature is available only in the Manual camera mode.
- You can add more scenes by tapping Add and downloading the Graphy app from Play Store. You may be charged for data usage, depending on your pricing plan.

## Sound quality and effects

### DTS:X 3D Surround

You can play a song or video in three-dimensional, immersive and vivid sound. Connect to an earphone, speaker or other external audio devices to use this feature.

Tap Home > Settings > Sound > Sound quality and effects, then tap DTS:X 3D Surround, ON/OFF to activate this feature.

#### Adjusting the sound direction

You can adjust the sound direction as desired.

1. Tap Home > Settings > Sound > Sound quality and effects > DTS:X 3D Surround.
2. Select the desired sound direction.

# Floating Bar

## Floating Bar overview

You can access frequently used features, including **Shortcuts**, **Screen capture**, **Music player**, and **Quick contacts** by touching and swiping the floating bar on the screen.

- To enable the floating bar, tap **Home** > **Settings** > **Extensions** > **Floating Bar** and then tap **ON/OFF** on the top of the screen.

### Opening and closing the Floating Bar

- To open the floating bar: Tap **View all** or **View all**.
- To close the floating bar: Tap **Fold** or **Fold**.

- To access the rest of the bar options, swipe left or right on the floating bar.

### Moving the floating bar position

You can set the area in which the floating bar can move or be pinned. In the **Floating Bar** menu, tap **Position**, then select from **Right and left edges**, **Right edge**, **Left edge** and **Pin current position**.

# Google Assistant

## Google Assistant overview

You can launch or use desired apps with your voice.

**NOTE** To use this feature, first connect to the network and sign in to your Google Account.

## Sign in

1. Press and hold ◯ **Home** from the Home screen to launch **Google Assistant**.
2. Tap **GET STARTED**.
3. Follow the on-screen instructions and say "**Ok Google**".
   - The device saves your voice data for recognition.
4. Select whether to use voice recognition unlock feature.
   - When this feature is activated, you can unlock the screen by saying "**Ok Google**" while the screen is turned off or unlocked.

**NOTES**
- This feature may be more vulnerable to security than the other screen locks, such as Knock Code, Pattern, PIN, and Password. When a similar voice or your recorded voice is used, the screen may be unlocked.
- To use this feature, tap ◯ **Home** > **Settings** > **Lock screen & security** > **Secure lock settings** > **Smart Lock**, and then use the screen lock method you set to unlock the device. Tap **Voice Match** > **Unlock with Voice Match**, and tap **ON/OFF**, then enter the currently used unlock method again. Note that Swipe is excluded.
- You need to unlock the device by using the specified method after failing to unlock the device with voice recognition. See *Setting a Screen Lock* for details.

5. Tap **Save**.

## Launching Google Assistant

1. Touch and hold ◯ **Home** on the Home screen.
   or
   Press the Google Assistant key on the left side of the device.
   or
   Say "**Ok Google**" when the screen is turned off or locked.
2. Say a command or question when you see • • • • on the bottom of the screen.

**NOTE** Voice recognition accuracy may decrease if you speak with an unclear voice or in a noisy place. When you use the voice recognition feature, increase its accuracy by speaking with a clear voice in a quiet place.

# Face Recognition

## Face Recognition overview

You can unlock the screen with your face by using the Face Recognition feature.

**NOTES**
- This feature may be more vulnerable to security than the other screen locks, such as Knock Code, Pattern, PIN, and Password.
- When a similar face such as a twin is used, the device may recognize it as the registered user and may be unlocked.
- The recognized facial data is securely stored in your device.
- If the device cannot detect your face, or you forget the screen lock set for your device, visit the nearest LG Customer Service Center with your device and ID card.

### Precautions for Face Recognition

Face recognition accuracy may decrease in the following cases. To increase its accuracy, check the following before using the device.

- When your face is covered with a hat, eyeglasses, sunglasses, or mask, or your face is significantly different due to heavy makeup or beard.
- When there are fingerprints or foreign substances on the front of the camera lens, or your device cannot detect your face due to an exceedingly bright or dark condition.

## Registering facial data

Before using the Face Recognition feature, register your facial data on your device.

1. Tap ◯ Home > Settings > Lock screen & security > Face Recognition.

**NOTES**
- To use this feature, the screen lock must be set with a Knock Code, Pattern, PIN, or Password.
- When the screen lock is not set, register the data by following the on-screen instructions. See *Setting a Screen Lock* for details.

2. Tap NEXT and unlock the device according to the specified method.
3. Tap START and raise your device in the front of your eyes.
   - Register your face in a room that is not too bright or dark.
   - Hold the device in the distance of 10-20 inches from your face.

- Position your entire face inside the guideline on the screen, and then move your head slowly in a circle while looking at the screen.
- Keep still while registering your face. You can improve recognition rate by taking steady photos multiple times.

**NOTE** Only one face can be registered at a time.

4. When the face registration is done, tap **OK**.

### Unlocking the screen with your face

You can unlock the screen with your face instead of a Knock Code, Pattern, PIN, or Password.

1. Tap **Home** > **Settings** > **Lock screen & security** > **Select screen lock**.
2. Unlock the screen according to the specified method.
3. Tap **Allow Face recognition** > **On/Off** to unlock the screen with your face.

### Face Recognition options

You can customize Face Recognition options.

1. Tap **Home** > **Settings** > **Lock screen & security** > **Face Recognition**.
2. Customize the following settings:
   - **Improve face recognition**: You can add facial data in various conditions to improve face recognition.
   - **Delete face**: You can delete the registered facial data and register it again if the face recognition does not work properly.
   - **Allow when screen is off**: You can wake your phone and then use Face Recognition by raising the phone when the screen is off.
   - **Swipe to unlock after face recognized**: After your device recognizes your face, you must swipe the screen to unlock it.
   - **Advanced face recognition**: Allows you to unlock only when the eyes are open.

# Fingerprint recognition

## Fingerprint recognition overview

You must register your fingerprint on your device first before using the fingerprint recognition function.

You can use the fingerprint recognition function in the following cases:

- To unlock the screen.
- To view locked contents in Gallery or QuickMemo+.
- Confirm a purchase by signing in to an app or identifying yourself with your fingerprint.

**NOTE** Your fingerprint can be used by the device for user identification. Very similar fingerprints from different users may be recognized by the fingerprint sensor as the same fingerprint.

## Precautions for fingerprint recognition

Fingerprint recognition accuracy may decrease due to a number of reasons. To maximize the recognition accuracy, check the following before using the device.

- Ensure that the fingerprint sensor is not damaged by a metallic object, such as coin or key.
- When water, dust or other foreign substance is on the fingerprint sensor or your finger, the fingerprint registration or recognition may not work. Clean and dry your finger before having the fingerprint recognized.
- A fingerprint may not be recognized properly if the surface of your finger has a scar or is not smooth due to being soaked in water.
- If you bend your finger or use the fingertip only, your fingerprint may not be recognized. Make sure that your finger covers the entire surface of the fingerprint sensor.
- Scan only one finger for each registration. Scanning more than one finger may affect fingerprint registration and recognition.
- The device may generate static electricity if the surrounding air is dry. If the surrounding air is dry, avoid scanning fingerprints, or touch a metallic object such as coin or key before scanning fingerprints to remove static electricity.

## Registering fingerprints

You can register and save your fingerprint on the device to use fingerprint identification.

1. Tap ○ Home > Settings > Lock screen & security > Fingerprints.

**NOTES**
- This feature is available only when the screen lock is set.
  - Lock the device with a Knock Code, Pattern, PIN or Password.
- If the screen lock is not set, enable it by following the on-screen instructions. See *Setting a Screen Lock* for details.

2. Locate the fingerprint sensor on the back of the device and gently put your finger on it to register the fingerprint.

**NOTES**
- Gently press the fingerprint sensor so that the sensor can recognize your fingerprint.
- Ensure that your fingertip covers the entire surface of the sensor.

3. Follow the on-screen instructions.
   - Repeat scanning the fingerprint by moving your finger little by little until the fingerprint is registered.
4. When the fingerprint registration is done, tap OK.
   - Tap ADD MORE to register another fingerprint. If you register only one fingerprint and the corresponding finger is not in a good condition, the fingerprint recognition may not work well. As a preventative measure, register multiple fingerprints.

## Managing fingerprints

You can edit or delete registered fingerprints.

1. Tap Home > Settings > Lock screen & security > Fingerprints.
2. Unlock according to the specified lock method.
3. From the fingerprint list, tap a fingerprint to rename it. To delete it, tap Delete.

## Unlocking the screen with a fingerprint

You can unlock the screen or view locked content by using your fingerprint. Activate the desired function:

1. Tap Home > Settings > Lock screen & security > Fingerprints.
2. Unlock according to the specified lock method.
3. On the fingerprint settings screen, activate the desired function:
   - **Screen lock**: Unlock the screen with a fingerprint.
   - **Content lock**: Access locked contents in Gallery and QuickMemo+ with a fingerprint.

## Always-on display

You can view the date, time or signature when the main screen is turned off.

Swipe the bottom of the Always-on display screen to access features including Camera, Capture+, Wi-Fi, sound settings, **Bluetooth®**, Flash, Music and more.

1. Tap ◯ **Home** > **Settings** > **Display** > **Always-on display**.
2. Select the image you want to display and tap **SAVE**.
   - Tap the desired image among **Digital clock**, **Analog clock**, **Dual clock**, **Signature**, **Calendar**, and **Image**.
   - Tap **Quick tools & music player** **ON/OFF** to swipe over the status icons for Quick tools and the music player.
   - Tap **AI Pick** **ON/OFF** to see useful information provided based on Context Awareness.
   - To set the time period not to activate Always-on display feature, tap **Daily timeout**.
   - To enhance brightness for the Always-on display feature, tap **Brighter display**.

**NOTES**
- The battery may drain faster when you use Always-on display. Turn this feature off to save battery power.
- To deactivate Always-on display feature, tap ◯ **Home** > **Settings** > **Display** > **Always-on display**, and then tap .

## Notes on Water Resistant Properties

This product is water and dust resistant in compliance with the Ingress Protection rating IP68.

Your product has undergone testing in a controlled environment and is proven to be water and dust resistant in certain circumstances (meets the requirements of classification IP68 as described by the international standard IEC 60529 - Degrees of Protection provided by Enclosures [IP Code]; test conditions: 15-35 °C/59-95 °F, 86-106 kPa, 1.5 meters, for 30 minutes).

Do not expose the device in conditions that are different from the test conditions. Results may vary in actual use.

⚠ WARNING

Despite a rating of IP68, your device is not impervious to conditions not tested in LG's controlled environment. Please note that any damages that occur due to such causes changes the color of the LDI (Liquid Damage Indicator). If the color of LDI located inside the product changes, the product may be considered ineligible for any free-of-charge repair services provided under the product's limited warranty.

Avoid excessive dust or moisture as it may cause damages to the LDI or other internally sealed components and therefore may render your product ineligible for repair services provided under the product's limited warranty. Do not use the product in the following environments.

Do not immerse the product in any liquid chemicals (soap, etc.).

Do not immerse the product in salt water, including seawater.

Do not immerse the product in a hot spring.

Do not swim with this product.

Do not place the product directly on sand (e.g. beach) or mud.

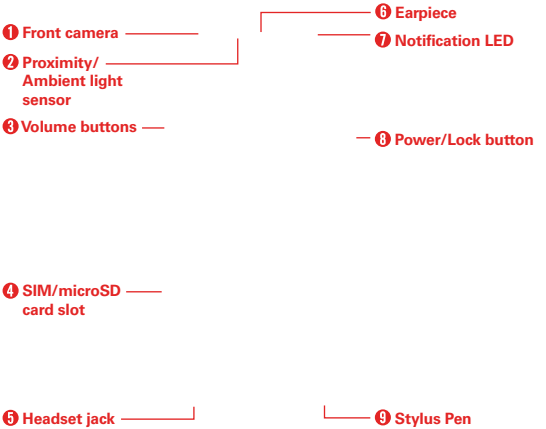
Do not immerse your product in water deeper than 1.5 meters for longer than 30 minutes.

- If your product becomes wet be sure to wipe the microphone, speaker, and stereo jack with a dry cloth before use.
- Should your product or your hands become wet, dry them before handling the product.
- Do not use the product in places where it may be sprayed with high pressure water (e.g. near a faucet or shower head) or submerge it in water for extended periods of time, as the product is not designed to withstand high water pressure.
- The product's water and dust resistant features may be damaged by dropping or receiving an impact.
- If the product gets wet, use a clean, soft cloth to dry it thoroughly.
- The touch screen and other features may not work properly if the device is used while wet.
- Your product is water resistant only when the SIM/Memory card tray is properly inserted into the product.
- Do not open or close the SIM/Memory card tray while the product is wet or immersed in water. Exposing the open tray to water or moisture may damage the product.
- The SIM/Memory card tray contains rubber [packing] to help prevent dust, water, or moisture from entering the product. Do not damage the rubber [packing] as this may allow dust, water, or moisture to enter your product and cause damage.

**NOTE** Failure to follow the provided instructions may invalidate your device's limited warranty.

# Phone Overview

## Front View




**NOTES**
- All screen shots in this guide are simulated. Actual displays may vary.
- Instructions to perform tasks in this guide are based on the default settings and may change depending on the mode and software version on your phone.

**WARNING!** Some of the device parts are made of tempered glass. If you drop your device on a hard surface or subject it to severe impact, the tempered glass may be damaged. If this happens, stop using your device immediately and contact an LG Customer Service Center.

1. Front camera Use to take pictures and record videos of yourself. You can also use this for video chatting. Keep the lenses clean for optimal performance.

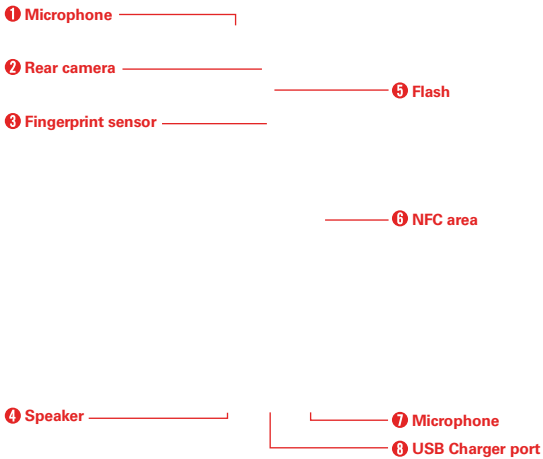
2. Proximity/Ambient light sensor Senses proximity toward other objects (such as your head) so that tap commands are not accidentally activated during a call or when carried inside a pocket. It also employs an ambient sensor which measures the surrounding light and adjusts the LCD brightness to provide a vivid screen.

   **NOTE** Don't block the sensor or near the sensor to avoid problems with the touch screen.

3. Volume buttons Press to adjust the ringer, the media volumes, or the in-call volume during a call. They can also activate the camera shutter and access shortcuts when enabled in the Settings menu.
4. SIM/microSD card slot Insert the SIM card and an optional memory card (not included) for file storage.
5. Headset jack Allows you to plug in an optional headset for convenient, hands-free conversations or recording your voice using the HD Audio Recorder app. You can also plug in headphones to listen to music.
6. Earpiece Lets you hear callers and automated prompts.
7. Notification LED
8. Power/Lock button Press to turn off the screen backlight and lock the screen, or turn the screen backlight back on. Press and hold to turn the phone on/off, restart, or activate/deactivate Airplane mode.
9. Stylus pen Operate the device with the stylus pen included, or your finger.

**NOTE** Please insert the pen into the device, aligning the arrow mark on the stylus pen upwards with the device facing up.

## Rear View




**NOTE** Press and hold the volume down button and Power/Lock button at the same time for a second to take a screenshot.

**WARNING!** Don't attempt to remove the back cover.

This device has a non-removable battery. Do not attempt to remove the back cover. Doing so may severely damage the battery and device, which could cause overheating, fire, and injury.

1. Microphone Transmits your voice to the other caller. It's also used for voice-activated functions.
2. Rear camera Use to take photos and record videos. Keep the lenses clean for optimal performance.
3. Fingerprint sensor Allows you to record and use fingerprints to secure your phone.

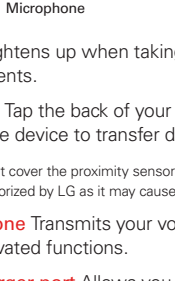
4. Speaker Use to listen to audio (e.g., music, videos, sound clips, speakerphone, etc.) from the rear speaker instead of the earpiece.

**NOTE** Hold the device correctly as shown below. If you cover the microphone hole with a hand, finger, or protective case while using the device, you may sound unclear during a call.

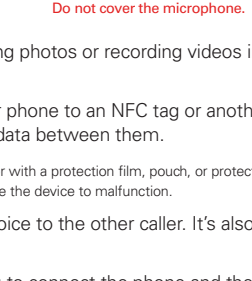
Good example

Bad example

Microphone



Do not cover the microphone.



5. Flash Brightens up when taking photos or recording videos in low-light environments.
6. NFC area Tap the back of your phone to an NFC tag or another NFC compatible device to transfer data between them.

**NOTE** Don't cover the proximity sensor with a protection film, pouch, or protection case not authorized by LG as it may cause the device to malfunction.

7. Microphone Transmits your voice to the other caller. It's also used for voice-activated functions.
8. USB/Charger port Allows you to connect the phone and the USB Type-C cable for use with the charger adapter, or other compatible accessories.

## Installing the SIM card and memory card

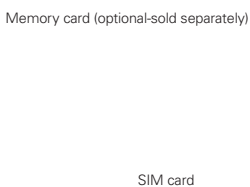
Insert the SIM card from your mobile service provider and the separately purchased memory card into the device.

**NOTES**

- Your phone already has a SIM card installed.
- In order for the water-resistant and dust-resistant features to work effectively, the card tray must be inserted correctly.

1. Insert the ejection pin into the hole in the card tray and then pull out the card tray from the device.

2. Place the SIM card or memory card on the card tray and then insert the card tray into the device in the direction of the arrow.



**NOTES**

- Do not lose your SIM card. LG is not responsible for damage and other issues caused by loss or transfer of a SIM card.
- Be careful not to damage the SIM card when you insert or remove it.
- When you insert the SIM card or memory card, place it on the card tray correctly.
- When you insert the card tray back into the device, insert it horizontally in the direction of arrow as shown in the figure. Make sure that the card placed on the card tray does not move out of its position.
- Insert the SIM card with the gold-colored contacts facing downwards.
- Be sure to insert the SIM card into the device by following the instructions in the user manual.
- If you insert to or remove the card tray from the device, be careful not to let water or other liquids enter into the card tray. If a wet card tray or card is inserted into the device, your device may get damaged.
- Memory card is an optional item.
- Frequent writing and erasing of data may shorten the memory card lifespan.
- Some memory cards may not be fully compatible with the device. If you use an incompatible card, it may damage the device or the memory card, or corrupt the data stored in it.

## Removing the memory card

Unmount the memory card before removing it for safety.

1. Tap ◯ Home > Settings > Storage > △ Eject.
2. Insert the ejection pin into the hole in the card tray and then pull out the card tray from the device.
3. Remove the memory card from the card tray.
4. Insert the card tray back into the slot.

**WARNING!** Do not remove the memory card while the device is transferring or accessing information. This may cause data to be lost or corrupted, or may damage the memory card or the device. LG is not responsible for losses that result from the abuse or improper use of memory cards, including the loss of data.

## Charging Your Phone

Before using the device, fully charge the battery.

Charge the device with the USB Type-C cable.

Charging cable terminal

**WARNING!**

- Do not charge while the device or charging cable is wet or contains moisture. This can cause fire, electric shock, injury or damage to device.
- Make sure to use the USB cable provided with your device.
- Make sure to use an LG-approved charger and charging cable. Charging the battery with a third-party charger may cause the battery to explode or may damage the device.
- Your device has an internal rechargeable battery. For your safety, do not remove the embedded battery.
- Using the device when it is charging may cause electric shock. To use the device, stop charging it.

**NOTES**

- Remove the charger from the power socket after the device is fully charged. This prevents unnecessary power consumption.
- Another way to charge the battery is by connecting a USB cable between the device and a desktop or laptop computer. This may take a longer time than plugging the adapter to a wall outlet.
- Do not charge the battery by using a USB hub that is unable to maintain the rated voltage. Charging may fail or unintentionally stop.
- A charging adapter that supports fast charging is included with the product.
- The fast charging feature may not work if a fast charging adapter other than the genuine adapter provided with the product is used.

1. The USB/Charger Type-C port is located at the bottom of the phone. Insert the cable's plug in the port.
2. Plug the charger adapter into a power outlet to begin charging.

### Precautions when using the device

- Make sure to use the USB cable provided; do not use third party USB cables or chargers with your device. The LG limited warranty does not cover the use of third party accessories.
- Failure to follow the instructions in this guide and improper use may damage the device.

## Wireless charging

This product supports wireless charging. Use a WPC (Qi) certified wireless charger (sold separately) to charge the product.

Some coiled wireless chargers may not support wireless charging. Wireless chargers that support EPP (Extended Power Profile) allow high-speed wireless charging.

### Charging the battery with a wireless charger

1. Place your device on the center of the wireless charger aligned with the wireless charging antenna on the back of the device.
   - To check the wireless charging antenna area, see *Phone Overview*.
2. When the battery is fully charged, remove the device from the charger.

**WARNING!** When you charge the battery with a wireless charger, do not put magnetic, metallic or conductive materials between the device and the charger. This may disturb charging or the device and the charger may become heated. In this case, the device, charger or SIM/Memory cards may be damaged.

**NOTES**

- If the battery temperature exceeds a certain level while charging the device, charging may be stopped.
- If magnetic, metallic or conductive materials are attached on the back of the device or a protective case is inserted, the device may not charge properly.
- If you charge the battery with a wireless charger in areas where the network signal strength is weak, the network performance of your device may be further degraded.
- Charge the device with a WPC (Qi) certified wireless charger (optional, sold separately). Because the LG limited warranty does not cover the use of third party accessories, contact the third party manufacturer.

## Using the battery efficiently

Battery lifespan may decrease if you keep many apps and functions running simultaneously and continuously. Cancel background operations to increase battery life. To minimize battery consumption, follow these tips:

- Turn off the Bluetooth® or Wi-Fi network function when not using them.
- Set the screen timeout to as short a time as possible.
- Minimize the screen brightness.
- Set a screen lock when the device is not in use.
- Check the battery usage details and close any downloaded apps.

# Turning Your Phone On and Off

## Turning your phone on

- Press and hold the Power/Lock button for a couple of seconds until the screen turns on.

**NOTES**

- When the device is turned on for the first time, initial configuration takes place. The first booting for the device may take longer than usual.
- A soft reset may be used to reset the device if the screen freezes, or the buttons, touch screen, or device are no longer responding. To perform a soft reset of your device, simply press and hold the Volume Down button and Power/Lock button until the device restarts.

## Turning your phone off

1. Press and hold the Power/Lock button until the Phone options appear.
2. Tap **Power off**.
3. Tap **POWER OFF** to confirm that you want to turn off the phone.

## Restarting the device

When the device is not working properly or does not respond, restart it by following the instructions below.

1. Press and hold the Power/Lock button and the Volume Down button at the same time until the power is turned off.
2. When the LG logo appears and then the device restarts, release the button.

## Power control options

Press and hold the Power/Lock button, then select an option.

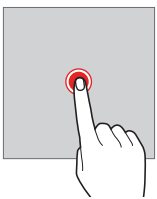
- **Power off**: Turn the device off.
- **Power off and restart**: Restart the device.
- **Turn on Airplane mode**: Block telecommunication-related functions, including making phone calls, messaging and browsing the Internet. Other functions remain available.

## Touch Screen

You can familiarize yourself with how to control your device by using touch screen gestures.

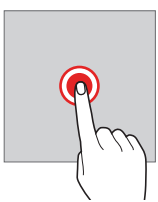
### Tapping

Lightly tap with your fingertip to select or run an app or option.



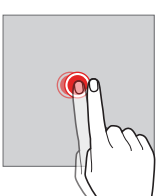
### Touching and holding

Touch and hold for several seconds to display a menu with available options.



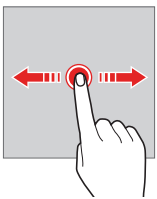
### Double-tapping

Tap twice quickly to zoom in or out on a web page or map.



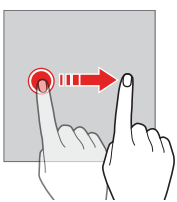
## Dragging

Touch and hold an item, such as an app or widget, then move your finger to a desired location in a controlled motion. You can use this gesture to move an item.



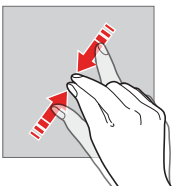
## Swiping

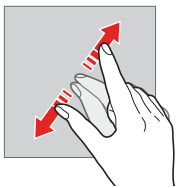
Touch the screen with your finger and move it quickly without pausing. You can use this gesture to scroll through a list, a web page, photos, screens, and more.



## Pinching and spreading

Pinch two fingers to zoom out such as on a photo or map. To zoom in, spread your fingers apart.





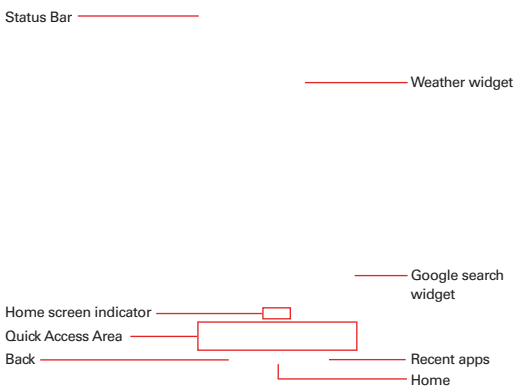
**WARNING!** Do not expose the touch screen to excessive physical shock. You might damage the touch sensor.

**NOTES**

- A touch screen failure may occur if you use the device near a magnetic, metallic or conductive material.
- If you use the device under bright lights, such as direct sunlight, the screen may not be visible, depending on your position. Use the device in a shady location or a location with an ambient light that is not too bright and bright enough to read books.
- Do not press the screen with excessive force.
- Gently tap with your fingertip on the desired option.
- The touch control may not work properly if you tap while wearing a glove or by using the tip of your fingernail.
- Touch control may not work properly if the screen is moist or wet.
- The touch screen may not function properly if a screen-protective film or accessory purchased from a third party store is attached to the device.
- Displaying a static image for extended periods of time may result in after images or screen burn-in. Turn off the screen or avoid displaying the same image for a long time when you do not use the device.

## Getting to Know the Home Screen

The Home screen is your starting point to access all of the features on your phone using simple motions on the screen. It's comprised of multiple panels (swipe horizontally to switch). You can customize all of your Home screen panels with app shortcuts, icons, widgets, folders, and other features.




**NOTE** The Home screen may vary, depending on the service provider or software version.

- **Status bar**: View status icons, the time and the battery level.
- **Weather widget**: View the information of weather and time for a specific area.
- **Google search widget**: Perform a Google search by inputting spoken or written keywords.
- **Home screen indicator**: Display the total number of Home screen canvases. You can tap the desired page icon to go to the page. The icon reflecting the current canvas will be highlighted.

- **Quick access area**: Fix main apps at the bottom of the screen so that they can be accessed from any Home screen canvas.
- **Home touch buttons**

  : Return to the previous screen. Close the keypad or pop-up windows.

  : Tap to go to the Home screen. To launch Google Assistant, touch and hold.

  : Tap to view a list of recently used apps or run an app from the list. To delete all the recently used apps, tap **CLEAR ALL**. To use two apps at the same time with the Multi window feature, touch and hold the button while using an app.

## Changing the style of the Home touch buttons

You can change the style of the Home touch buttons.

1. Tap **Home** > **Settings** > **Display** > **Home touch buttons**.
2. Under **STYLE**, select **Buttons only** or **Gesture and buttons** to suit your preferences.
   - **Buttons only**: / / are available. Tap to see recent apps.
   - **Gesture and buttons**: Home button and Back button are available. To see recent apps, swipe the Home button up.

## Modifying the Home touch buttons

You can change buttons displayed on the Home touch buttons Bar, as well as their position and color.

1. Tap **Home** > **Settings** > **Display** > **Home touch buttons**.
2. Select the modification you want to apply.
   - Tap **Button combination** to select Home touch buttons you want to add to the bar and their position within the bar. Choose from **Notification**, **Capture+**, and **QSlide** to add.

- Under **Background color**, select a desired color from the options provided.

### Lock/hide buttons

- While using an app, tap ■ **Hide** twice to hide Home touch buttons.
- When the Home touch buttons are hidden, swipe upward from the bottom of the screen to temporarily display them.
- You can also choose to keep the Home touch buttons bar displayed by tapping **Lock**.
- To deactivate the Lock/hide buttons feature, tap **Home** > **Settings** > **Display** > **Home touch buttons**, then tap **Show lock/hide icon**.

### Hiding the Home touch buttons

You can hide the Home touch buttons to view in a larger screen while using an app.

1. Tap **Home** > **Settings** > **Display** > **Home touch buttons**.
2. Tap **Hide Home touch buttons** to choose the apps that will hide the buttons by default while you are using the app.

## Status Bar

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

### Call icons

| | | | |
|---|---|---|---|
| | In call | | Missed call |
| | Speakerphone on | | Microphone muted |
| | Video call | | |

### Sound icons

| | | | |
|---|---|---|---|
| | Do not disturb - Priority only | | Do not disturb - Total silence |
| | Vibrate mode | | Silent mode |
| | Music playing | | Music paused |

### Network icons

| | | | |
|---|---|---|---|
| | 3G connected | | 3G in use |
| | 4G LTE connected | | 4G LTE in use |
| | Wi-Fi connected | | Wi-Fi with no Internet |
| | Signal strength | | No signal |
| | Roaming | | Network extender |
| | No SIM card | | Unknown SIM card |
| | Airplane mode | | GPS on |
| | App update available | | App update successful |
| | Downloading | | Uploading |
| | Download successful | | Emergency Alert |

### Connectivity icons

| | | | |
|---|---|---|---|
| | Syncing | | Mobile Hotspot on |
| | USB connected | | USB debugging mode |
| | Bluetooth connected | | Bluetooth on |
| | Bluetooth headset battery full | | Bluetooth headset battery low |
| | NFC on | | Headset connected |
| | Headset with microphone connected | | Internal storage full |

### Email and Messaging icons

| | | | |
|---|---|---|---|
| | New Gmail message | | New message |
| | New voicemail | | Message not sent |

### Calendar and Alarm icons

| | | | |
|---|---|---|---|
| | Alarm set | | Upcoming events |

### Battery icons

| | | | |
|---|---|---|---|
| | Full battery | | Fast Charging |
| | Charging battery | | Wireless charging |
| | Low battery | | Empty battery |
| | Not charging | | |

### Other icons

| | | | |
|---|---|---|---|
| | More notifications | | Screenshot saved |
| | Keyboard | | |

## Notifications panel

You can open the notifications panel by dragging the status bar downward on the main screen.

- To open the quick access icons list, drag the notifications panel downwards.
- To rearrange, add, or remove icons, tap **EDIT**.
- If you touch and hold the icon, the settings screen for the corresponding function appears.

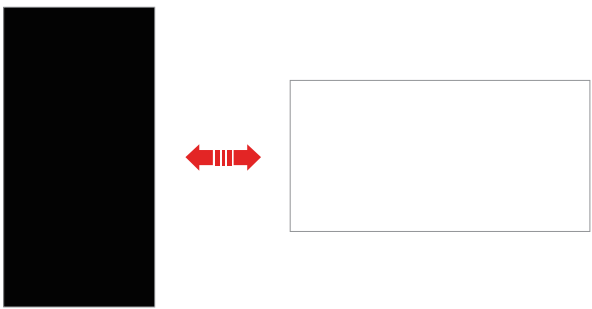
**NOTE** You can use the notifications panel even on the lock screen. Drag the notifications panel while the screen is locked to quickly access the desired features.

## Switching the screen orientation

You can set the screen orientation to automatically switch according to the device's physical orientation.

On the notification panel, tap **Rotation** from the quick access icon list.

You can also tap ◯ **Home** > **Settings** > **Display** and activate **Auto-rotate screen**.



## Editing the Home screen

On the Home screen, touch and hold on an empty space, then select the desired action from below.

- To rearrange the Home screen canvases, touch and hold on a canvas, then drag it to a desired location.
- To add a widget to the Home screen, touch and hold on a blank area of the Home screen, then select **Widgets**.
- To change a wallpaper, theme or AOD, touch and hold on a blank area of the Home screen, then select **Wallpaper & theme**.
  You can also tap ◯ **Home** > **Settings** > **Display** > **Wallpaper & theme**, then select desired options under **Wallpaper**, **Theme**, and **AOD** to apply to the device.
- To configure the Home screen settings, touch and hold on a blank area of the Home screen, then select **Home screen settings**.

- To change the app arrangement, touch and hold on a blank area of the Home screen, then select **Grid**.
- To change the default screen, touch and hold on a blank area of the Home screen, move to desired screen, tap **Default screen**, then tap the screen once more.

Default screen

## Using folders from the Home screen

### Creating folders

On the Home screen, touch and hold an app, then drag it over another app.

- A new folder is created and the apps are added to the folder.

### Editing folders

On the Home screen, tap a folder and do one of the following actions.

- To edit the folder name and colour, tap the folder name.
- To add apps, touch and hold an app, then drag it over the folder and release it.
- To remove an app from the folder, touch and hold the app and drag it to outside the folder. If there is only one app remaining in the folder, the folder is removed automatically.

- You can also add or remove apps after tapping ⊕ **Add** in the folder.

**NOTE** The folder color cannot be changed for downloaded themes.

### EasyHome screen version

EasyHome is a more simplified version of the Home screen that you can choose to use on your phone.

Tap ◯ **Home** > **Settings** > **Display** > **Home screen** > **Select Home** > **EasyHome**.

The EasyHome Home screen has three panels.

### Home with separate apps list

Home with separate apps list is another version of the Home screen that you can use on your phone. This version places all of your installed and downloaded apps in an Applications screen instead of on your Home screen panels. The **Apps** icon in the Quick Access Bar allows you to access all of your apps and you can just copy shortcuts of the desired apps to your Home screen.

- Tap ◯ **Home** > **Settings** > **Display** > **Home screen** > **Select Home** > **Home with separate apps list**.

## Setting Your Lock Screen

Your device's screen turns off and locks itself if you press the Power/Lock button. This also happens after the device is left idle for a specified period of time. If you press the Power/Lock button when a screen lock is not set, the Home screen appears immediately. To ensure security and prevent unwanted access to your device, set a screen lock.

**NOTE** A screen lock prevents unnecessary touch input on the device screen and reduces battery consumption. We recommend that you activate the screen lock while not using the device.

### Setting a Screen Lock

There are several screen lock options available.

1. Tap ○ **Home** > **Settings** > **Lock screen & security**.
2. Tap **Select screen lock** and then select the desired method.
3. Customize the following settings.

   **None**: Deactivate the screen lock function.

   **Swipe**: Swipe on the screen to unlock the screen.

   **Knock Code**: Tap the screen in a pattern to unlock the screen.

   **Pattern**: Draw a pattern to unlock the screen.

   **PIN**: Enter a numeric password to unlock the screen.

   **Password**: Enter an alphanumeric password to unlock the screen.

   **Fingerprints**: Unlock the screen by using your fingerprint.

   **Allow face unlock**: Unlock the screen with your face.

   **Allow hand ID**: Unlock the screen with your hand ID.

## Secure start-up settings

For additional security for your device, you can enable the Secure start-up option when setting a screen lock.

- You cannot use all functions, except for emergency calls until you unlock the device.

## Precautions for the secure start-up feature

- If you forget your decryption password, you cannot restore encrypted data and personal information.
- Be sure to keep your screen lock passwords separately.
- If you enter the screen lock passwords incorrectly more than the specified times, the device automatically resets itself and the encrypted data and your personal information are deleted automatically and they cannot be restored.
- Be cautious not to enter incorrect screen lock passwords more than the specified times.
- When you turn on the device right after the device reboots, encryption also starts. If you stop the encryption arbitrarily, the data may be damaged. Be sure to wait until the reboot is completed.

## KnockON

You can turn the screen on or off by double-tapping the screen.

**NOTES**

- This option is available only on the Home screen provided by LG. It may not function properly on a custom launcher or on the Home screen installed by the user.
- When tapping the screen, use your fingertip. Do not use a fingernail.
- To use the KnockON feature, make sure that the proximity/light sensor is not blocked by a sticker or any other foreign substance.

### Turning the screen on

Double-tap the middle of the screen.

- Tapping the top or bottom of the screen may decrease the recognition rate.

### Turning the screen off

Double-tap on an empty space on the Home screen and Lock screen.

You can also double-tap an empty space on the status bar.

### Disabling the KnockON feature

You can disable the KnockON feature by using the following method:

Tap Home > Settings > Extensions > KnockON then tap ON/OFF to deactivate this feature.

## Knock Code

You can unlock the screen by creating your own Knock Code. When the screen is locked, you can directly access the Home screen by tapping the screen in a specified sequence.

**NOTES**

- You can use your Knock Code together with the KnockOn feature.
- Make sure to use your fingertip when tapping the screen.

### Creating a Knock Code

1. Tap Home > Settings > Lock screen & security > Select screen lock > Knock Code.
2. Tap the squares in a pattern of your choice to create a Knock Code and tap DONE.
3. Input the created Knock Code again for verification, then tap CONFIRM.

### Unlocking the screen with a Knock Code

Unlock the screen by inputting the Knock Code you have created.

You can also input your Knock Code on the touch screen when the screen is turned off.

- It is also possible to enter a Knock Code when the lock screen is turned on.

## Memory card encryption

You can encrypt and protect data saved on the memory card. The encrypted data in the memory card cannot be accessed from another device.

1. Tap Home > Settings > Lock screen & security > Encryption & credentials > Encrypt SD card.
2. Read the on-screen overview of memory card encryption and then tap CONTINUE to continue.
3. Select an option and tap ENCRYPT NOW.
   - New data encryption: Encrypt only data that is saved on the memory card after encryption.
   - Full encryption: Encrypt all the data currently saved on the memory card.
   - Exclude media files: Encrypt all files, except for media files such as music, photos and videos.

**NOTES**

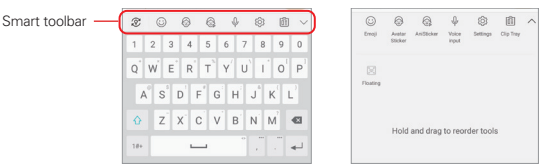
- Once memory card encryption starts, some functions are not available.
- If the device is turned off while encryption is underway, the encryption process will fail, and some data may be damaged. Therefore, be sure to check if the battery level is sufficient before starting encryption.
- Encrypted files are accessible only from the device where the files were encrypted.
- The encrypted memory card cannot be used on another device. To use the encrypted memory card on another mobile device, format the card.
- You can activate memory card encryption even when no memory card is installed into the device. Any memory card that is installed after encryption will automatically be encrypted.

# Entering text

## Using the Smart toolbar

You can use various keyboard input methods in one place. You can select the desired input method from the top of the keyboard.

1. Select the desired keyboard input method from the Smart toolbar.
2. Tap ﹀ **Show**, then touch and drag each tool to reorganize as desired.




**NOTES**

- Some supporting input methods may differ depending on the device you have.
- You can turn on or off the Smart tool feature from the keyboard settings.
- You can also use the keyboard input methods by tapping **Settings**.

| | |
|---|---|
| | Tap to hide the smart tools. |
| | Tap to add emojis. |
| | Tap to add avatar stickers. |
| | Tap to add ani-stickers. |
| | On the keyboard, tap **Voice input**.<br>• To maximize the voice command recognition, speak clearly.<br>• To enter text with your voice, make sure that your device is connected to a network.<br>• To select the language for voice recognition, tap **Settings** > **Languages** on the voice recognition screen.<br>• This function may not be supported, or the supported languages may differ depending on the service area. |
| | Tap to access keyboard settings. |
| | Tap to open the clip tray.<br>For more information, please see *Clip Tray*. |
| | Tap to let the keyboard float, when you use the Multi-window feature. You can also move the keyboard to the desired location. |
| | Tap to bring the smart tools back. |

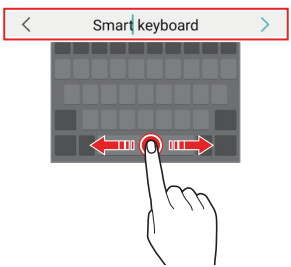
## Using the Smart keyboard

You can use the Smart keyboard to enter and edit text.

With the Smart keyboard, you can view text as you type without bothering to alternate between the screen and a conventional keyboard. This allows you to easily find and correct errors when typing.

### Moving the cursor

With the Smart keyboard, you can move the cursor to the exact position you want. When typing text, touch and hold on the space bar and then drag left or right.

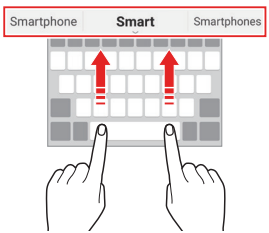



**NOTE** This option is available only on the QWERTY keyboard.

### Suggesting words

Smart keyboard automatically analyzes your usage patterns to suggest frequently used words as you type. The longer you use your device, the more precise the suggestions are.

Enter text, then tap a suggested word.




- The selected word is automatically entered. You do not need to manually type every letter of the word.

## Copy and Paste

You can cut or copy text from an app, and then paste the text into the same app. Or, you can run other apps and paste the text into them.

1. Touch and hold around the text you want to copy or cut.
2. Drag / to specify the area to copy or cut.
3. Select either **CUT** or **COPY**.
   - Cut or copied text is automatically added to the clipboard.
4. Touch and hold the text input window, then select **PASTE**.

**NOTE** If there is no item that has been copied or cut, the PASTE option will not appear.

## Clip Tray

If you copy or cut an image or text, it is automatically saved to the clip tray and can be pasted to any space at any time.

1. On the Smart tool, tap Clip Tray.

   You can also touch and hold the text input window, then select CLIP TRAY.

2. Select and paste an item from the clip tray.

   - A maximum of 20 items can be saved to the clip tray.
   - Tap Lock to lock saved items in order not to delete them, even when the maximum quantity is exceeded. A maximum of ten items can be locked. To delete locked items, unlock them first.
   - Tap Trash to delete the items saved to the clip tray.

**NOTES**

- The clip tray may not be supported by some downloaded apps.
- Deleted items cannot be restored.

## Languages

You can set only one main language for your phone's operating software, but you can set multiple secondary languages and switch as needed. In addition, you can set multiple languages used for the on-screen keyboard.

### To change the main language

- Tap Home > Settings > System > Language & keyboard > Language > ADD LANGUAGE. Tap the language of your choice. Touch and hold the language, then drag it to the top of the language list to make it your phone's main language.

**NOTE** After adding additional secondary languages, drag any language to the top of the list to set it as your main language.

### To add additional languages for your keyboard

- Tap Home > Settings > System > Language & keyboard > On-screen keyboard > LG Keyboard > Select languages > checkmark all languages you want to use on the keyboard.

## Capturing a Screenshot

Press and hold the Volume Down button and the Power/Lock button at the same time for 2 seconds to capture a screenshot of the current screen.

To view the captured image, tap Home > Gallery > the Screenshots album.

### Using Capture+ to capture a screenshot

On the screen you want to capture, drag the Status Bar downward and tap Capture+ (in the Quick settings). The image is captured, but not saved until you tap Done and choose a location to save in.

Access the app (QuickMemo+ or Gallery) in which you saved the captured image to view it.

**NOTE** Screenshots saved to the Gallery app are in the Capture+ album.

## Content sharing

### Playing content from another device

You can play photos, videos or songs saved on your device from a TV.

1. Connect the TV and your device to the same Wi-Fi network.
2. While viewing an item in the Gallery or Music app, tap Play on other device or Options > Play on other device.
3. Select the TV you want to connect to.

**NOTE** Google Play services should be up to date in order to use Chromecast.

### Viewing content from nearby devices

You can view content from various devices, such as a computer, NAS or mobile device, by using the Gallery or Music app.

#### Connecting the devices

Connect both your device and a device that supports DLNA function to the same wireless network.

**NOTE** Make sure that File sharing (DLNA) is activated on both devices.

### Searching for nearby devices

You can view a list of DLNA devices on the same network by selecting the **Nearby devices** menu in each app.

Use content from nearby devices as if you were using it on your device.

## Sending or receiving files

You can share files between your device and another LG device, or a tablet or computer.

### Sending files

From the **Gallery, File Manager** or **Music** app, tap **Options** > **Share** or **Share**, then select a device on the file sharing list.

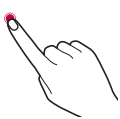
If your device does not support the file sharing feature, tap **Home** > **Settings** > **Connected devices** > **File sharing** > **SmartShare Beam ON/OFF**.

**NOTES**

- Make sure that your device is connected to the same wireless network as the file transfer target device.
- Make sure that File sharing (DLNA) is activated on both the device and the connected device.

## App Shortcuts

On the Home screen, touch and hold an app icon such as Call, Messaging, Camera, Gallery and Settings to display a quick access menu. Use apps more easily through App Shortcuts.



**NOTE** This feature is available only on some apps.

# Audio recording features

## HD Audio Recorder overview

The HD Audio Recorder feature allows you to configure the audio settings manually so that you can record audio based on your environment.

## Recording modes

You can record a high definition audio file by selecting and configuring the desired audio mode to suit the recording environment.

Tap Home > Essentials folder > HD Audio Recorder > Menu.

### Normal

You can record audio without extra settings.

### Concert

You can record audio in a concert or other music event.

### Custom

You can manually personalize the settings to record audio.

## Studio Mode

With Studio mode, you can play an audio file or music and record your voice at the same time, create a chord by recording your voice multiple times, and record your comments over the presenter's or speaker's original audio file.

1. Tap Home > Essentials folder > HD Audio Recorder > Menu > Custom.
2. Tap Studio mode.
3. Select an audio file to use as background music.
4. Tap Record to record voice.
5. Tap Stop to save the recorded file.

**NOTE** Background music can only be played through earphones. Make sure to plug in earphones before using this feature.

# Calculator

## Using your calculator

1. Tap Home > Essentials folder > Calculator.
2. Tap the number buttons and the function buttons (+, −, × or ÷) as necessary. The result automatically appears as soon as sufficient calculation information is entered.
   - To delete the last input, tap DEL. To clear the display, touch and hold DEL.

# Calendar

## Viewing Your Calendar and Events

The Calendar app allows you to track your schedule of events (that you created or that you've been invited to), organized by day, week, month, year, or agenda. Tap Menu to switch calendar views or access your Tasks list.

Tap Home > Essentials folder > Calendar, and then tap Menu.

- Day: Display today's schedule by hour. Swipe left or right across the screen to display another day.
- Week: Display the current week. Swipe left or right across the screen to display another week.
- Month: Display the current month. Swipe left or right across the screen to display another month.
- Year: Display all twelve months of this year. Swipe left or right across the screen to display another year.
- Agenda: Display all events.

## Adding an event to your calendar

1. Tap Home > Essentials folder > Calendar.
2. Tap Menu to change the calendar view (Day, Week, Month, Year, or Agenda), if necessary.
3. Tap the date (or the time in the day calendar view) you want to add an event to and tap New event.
4. Enter the event name.
5. Tap Location field and enter the location. Check the date and enter the time you wish your event to start and finish.
6. Enable the All day switch, if applicable.
7. Tap More to enter additional options such as Reminders, Repeat, Description, Time zone, Show me as, and Privacy, as necessary.
8. Tap SAVE to save the event in the calendar.

# Camera

You can use the Camera app to take and share pictures and videos. Your phone has the integrated triple cameras that let you capture sharp pictures and videos in various angles. It has many state-of-the-art features such as Cine shot, Portrait, Studio, AI CAM, and much more. These features will allow you to easily and creatively capture your world.

**NOTE** Be sure to clean the protective lens cover with a soft cloth before taking pictures. A lens cover with smudges from fingers can cause blurry pictures with a "halo" effect.

## Starting the camera

▸ Tap ◯ Home > Camera.

**TIP** With the backlight off, press the **Volume Down** button twice to immediately activate the Camera app (when enabled in the Settings app).

**NOTES**

- Before taking a photo or recording a video, wipe the camera lens with a soft cloth.
- Be careful not to stain the camera lens with your fingers or other foreign substance.
- Images included in this user guide may be different from the actual device.
- Photos and videos can be viewed or edited from the Gallery app. See *Gallery overview* for details.

## Changing the camera mode

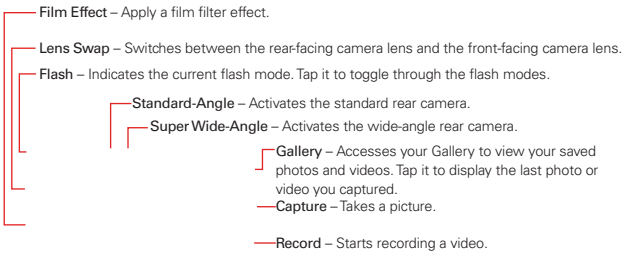
You can select a camera mode that suits your environment to take a photo or record a video easily and conveniently.

Tap ◯ Home > Camera and select the desired mode.

## Auto mode

You can select from a variety of camera modes and options to take your photos and record videos.

1. Tap Home > Camera.
2. Tap Auto.
3. To take a photo, tap Capture. To record a video, tap Record.




### Taking a photo

1. Select a camera mode and tap the subject to focus the camera on it.
2. Tap Capture to take a photo.
   - You can also press Volume buttons to take a photo.

**NOTE** When the screen is turned off or locked, start the camera by pressing the Power or Volume Down button twice. Tap Home > Settings > Extensions > Shortcut keys and enable the Open Camera switch under POWER and/or VOLUME.

## Recording a video

1. Select a camera mode and tap the subject to focus the camera on it.
2. Tap **Record**.
   - To take a photo while recording a video, tap **Capture**.
   - To pause the recording, tap **Pause**. To resume the recording, tap **Record**.
3. Tap **Stop** to end the video recording.

## Customizing the camera options

You can customize a variety of camera options to suit your preferences.

Tap **Settings** on the camera screen.

**NOTE** Available options vary depending on the selected camera (front or back camera) and the selected camera mode.

- : Take a photo or record a video in FullVision.
- : Select values for aspect ratio and size for taking photos.
- : Select values for resolution and size for recording videos.
- : Set the timer to automatically take photos or record videos after a specified period of time.

| | |
|---|---|
| Google Lens | When associated info is found in Auto mode, Google Lens will be used. |
| HDR | Obtain photos in vivid colors and get compensated effects even when they are taken against the light. These functions are provided by the High Dynamic Range (HDR) technology equipped in the camera. |
| Steady recording | Minimizes motion blur while recording a video. |
| Live photo | Record the action before and after you take a photo. |
| Shutter sound | You can turn on or off the camera shutter sound while taking a photo. |

| | |
|---|---|
| Cheese shutter | Take photos with voice commands. |
| Tracking focus | Enables the camera to remain focused on the subject you touch on the screen, even if the subject is moving. (Available when the Standard camera is in use.) |
| Tag locations | Save the image with GPS location data. |
| Grid | Displays guide grids so that you can take photos or record videos based on the horizontal and vertical reference lines. |
| Add signature | Displays a personalized signature on the photos. |
| Help | Provides help information for each camera menu. |

Additional options on the front camera

| | |
|---|---|
| Selfie shot | Take a selfie by selecting its option between Gesture shot and Auto shot. |
| Save as flipped | Save as flipped images after taking selfies. |
| Gesture view | Allows you to view the photo immediately after taking a photo. |

## Various camera modes

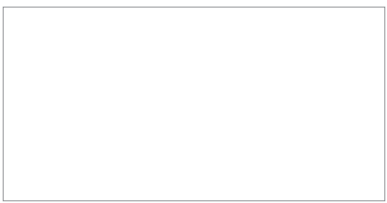
### Night view

You can take vivid and clear night photos.

While taking a photo, hold the device steady.

You can adjust photo brightness by dragging the slide bar left or right.

1. Tap ◯ Home > Camera.
2. Tap More > Night view.



### YouTube Live

You can record a video and directly upload to YouTube.

1. Tap ◯ Home > Camera.
2. Tap More > YouTube Live.

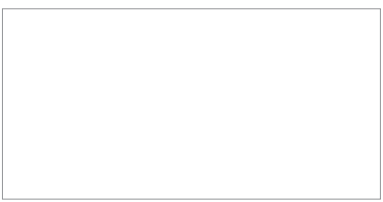
To use this feature, you need to verify your phone number.

**NOTE** YouTube Live is available only when your device is connected to the Internet. If you use mobile data, you may be charged for data usage, depending on your pricing plan.

### Food

You can optimize the quality of your food photos or videos using the color slide bar and white balance.

1. Tap Home > Camera.
2. Tap More > Food.
3. To take a photo, tap Capture. To record a video, tap Record.
   - Drag the color slide bar on the screen to adjust the white balance and select the best color.
   - If the slide bar is not displayed, tap White balance to adjust the white balance.



### Slo-mo

You can create an entertaining video by changing the moving speeds of subjects in your video. This feature allows you to record a video at a faster rate of speed and then play it at the standard speed so that the video appears to be slowed down.

1. Tap Home > Camera.
2. Tap More > Slo-mo.
3. Tap Record and record a video.
4. Tap Stop to end the video recording.

### Panorama

You can create a panoramic photo by moving the camera in one direction to photograph and stitch continuous shots of a wide view.

1. Tap Home > Camera.
2. Tap More > Panorama.
3. Tap Capture and then slowly move the camera in one direction.
   - Move the device by following the direction of the arrow in the guideline.
4. Tap Stop to stop capturing the panoramic.

### Flash Jump-Cut

Photos taken at a regular interval are saved as a GIF file.

1. Tap Home > Camera.
2. Tap More > Flash Jump-Cut.
   - Photos are taken every 3 seconds and saved as a GIF file.
   - Tap 4 on the screen to select the number of photos you want to take.
   - While taking photos, tap Stop to create a GIF with the photos taken.

**NOTES**

- The flash automatically turns on while taking photos.
- The current shot and the total number of shots are displayed at the bottom of the screen.
- All taken photos are saved as GIF files only.
- The GIF speed or image orders cannot be changed.

### Time-lapse

You can take a sequence of frames at set intervals to record changes that take place slowly over time, such as cloud movements, celestial motions, traffic, and more.

1. Tap Home > Camera.
2. Tap More > Time-lapse.
3. Tap Record and record a video.
4. Tap Stop to end the video recording.

**NOTE** While recording a Time-lapse, voices are not recorded.

### 360 Panorama

You can create a 360° panorama photo by moving the camera in one direction.

1. Tap Home > Camera.
2. Tap More > 360° Panorama.
3. Tap Capture and then slowly move the camera in one direction.
   - Move the device by following the direction of the arrow in the guideline.
   - Tap Stop to stop capturing the 360° panorama.
   - A 360 panorama photo is automatically saved in Gallery.
   - While viewing the photo, tap 360° Panorama and drag the screen in any direction to view a 360 panorama photo from various angles.

### Cine Video

You can record a movie like video.

See *Cine Video* for details.

### Cine shot

You can record a moment and make a video with only a part of the scene in motion.

See *Cine shot* for details.

### AR Stickers

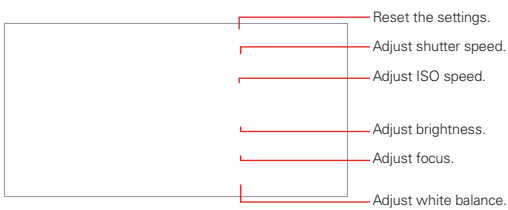
You can create AR Stickers.

See *AR features* for details.

## Manual camera mode

You can create professional level photos using a variety of advanced features. Adjust the white balance, focus, brightness, ISO, shutter speed and other options.

1. Tap ◯ **Home** > **Camera**.
2. Tap **Manual Camera**.
3. Manually adjust the following camera settings, as necessary.




4. Tap ◯ **Capture** to take the photo.

### Customizing the camera options

You can customize a variety of camera options to suit your preferences.

Tap Settings on the screen.

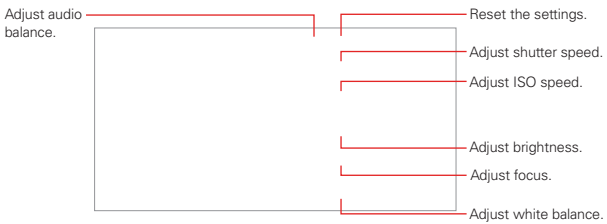
- : Take a photo or record a video in FullVision.
- : Select values for aspect ratio and size for taking photos.
- : Set the timer to automatically take photos after a specified period of time.

| | |
|---|---|
| Graphy photos | Adjusts the white balance, ISO and shutter speed for the recommended photo. See Graphy for details. |
| Save as RAW | The image is stored as a RAW file format so that you can modify it. The DNG and JPEG files are created while taking a photo, then saved as a non compressed high resolution image. |
| Shutter sound | You can turn on or off the camera shutter sound while taking a photo. |
| Cheese shutter | Takes photos with voice commands. |
| Tracking focus | Enables the camera to remain focused on the subject you touch on the screen, even if the subject is moving. (Available when the Standard camera is in use.) |
| Tag locations | Saves the image with GPS location data. |
| Guide | Displays guide grids so that you can take photos based on the horizontal and vertical reference lines. |
| Add signature | Displays a personalized signature on the photos. |
| Help | Provides help information for each camera menu. |

## Manual video mode

You can record a video by manually customizing various options. Adjust values for the white balance, focus, brightness, ISO, shutter speed and more.

1. Tap Home > Camera.
2. Tap MORE > Manual Video.




3. Manually adjust the camera settings, as necessary.
4. Tap Record to record a video.

### Customizing the camera options

You can customize a variety of camera options to suit your preferences.

Tap Settings on the screen.

- : Select values for resolution and size for recording videos.
- : Set the timer to automatically record videos after a specified period of time.

| | |
|---|---|
| Frame rate | Sets the frames per second value. |
| Bit rate | Sets the image quality for videos. |
| Hi-Fi | Records a video with Hi-Fi quality sound. |
| Save as HDR10 | Saves a video in the HDR10 format for high definition and vivid colour. |

| | |
|---|---|
| Steady recording | Minimizes motion blur while recording a video. |
| Tag locations | Saves the image with GPS location data. |
| Shutter sound | You can turn on or off the camera shutter sound while taking a photo. |
| Tracking focus | Enables the camera to remain focused on the subject you touch on the screen, even if the subject is moving. (Available when the Standard camera is in use.) |
| Grid | Displays guide grids so that you can record videos based on the horizontal and vertical reference lines. |
| Help | Provides help information for each camera menu. |

### Steady recording

You can use the Steady recording feature to minimize motion blur while recording a video.

1. Tap Home > Camera, then tap **Auto**.
2. Tap Settings > **Steady recording**.

**NOTE** See *Starting the camera* for details.

## Selfie shot

You can use the front camera to view your face on the screen and take selfies. The camera settings allow you to configure the selfie shot settings.

### Gesture shot

You can take selfies using gestures.

Show your palm to the front camera and then clench your fist.

You can also clench your fist and then open it towards the front camera.

▸ In three seconds, a photo is taken.

**NOTES**

- To use this feature, switch to the front camera, then tap Settings > Selfie shot > Gesture shot.
- Make sure that your palm and fist are completely within the recognition area so that the camera can detect them.
- This feature may not be available while using some of the camera features.

### Interval shot

You can take a series of selfies at an interval.

While using the front camera, you can show your palm to the camera, then clench your fist twice quickly.

▸ After a short timer delay, four photos are taken at about two-second intervals.

### Auto shot

You can use the face detection feature to take selfies easily and conveniently. You can set the device so that, when you look at the screen, the front camera detects your face and takes a selfie automatically.

- The white colored guide frame appears when the front camera detects your face. If the subject within the guide frame stops moving, the guide frame color turns yellow, then the camera takes a photo.

**NOTE** To use this feature, switch to the front camera, then tap Settings > **Selfie shot** > **Auto shot**.

## Burst shot

You can take continuous shots to create an illusion of moving pictures.

With the **Auto** mode selected, touch and hold **Capture**.

- Continuous shots are taken at a fast speed while **Capture** is held down.

## Signature

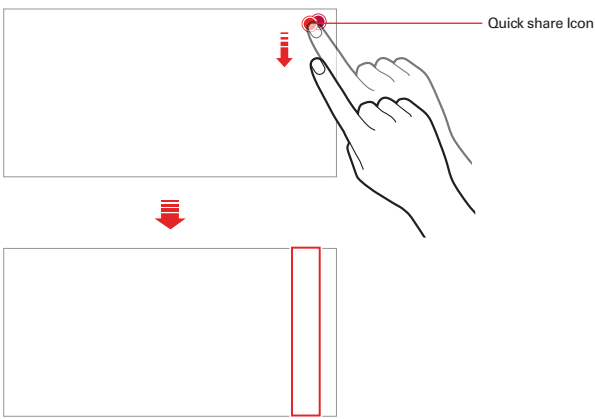
You can personalize a photo by adding your signature.

1. Tap **Home** > **Camera**.
2. Tap **Settings** > **Add signature**.
3. Enter the signature as desired and tap **ADD**.

## Quick share

You can share a photo or video using a desired app immediately after taking it.

1. Tap ◯ Home > Camera, then take a photo or record a video.
2. Tap the app icon that appears on the screen to share it using that app. You can also swipe the icon towards the opposite direction to see what other apps you can use to share your photos and videos.




**NOTES**

- The app displayed by the Quick share icon may vary, depending on the type and frequency of access to the apps installed on the device.
- This feature is available only in specific modes.

## Other useful features in the Camera app

### Auto-Exposure/Auto-Focus lock

You can fix the current exposure level and focus position by touching the screen in the Auto mode. To turn off the feature, tap a blank area on the screen.

### Focus peaking

You can adjust the focus on the subject with the Focus peaking feature.

Access Focus peaking by tapping the Manual Focus (MF) button. When Focus peaking is enabled, the subject you focus on appears green. Move the toggle wheel up or down to focus on the desired area, then take the photo.

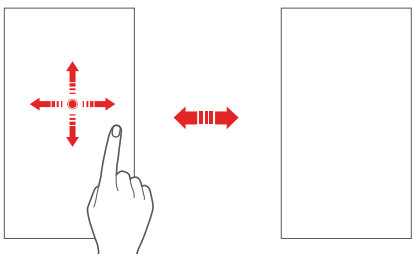
**NOTES**

- This feature is only available in Manual camera mode and Manual video mode.
- Disable this feature by tapping the Focus button once more.
- This feature is not available using the wide-angle camera.

## Switching between cameras

You can switch between the front and rear cameras to suit your environment.

On the camera screen, tap Swap or swipe the screen in any direction to switch between the front and back cameras.



## Zoom in or out

You can use zoom in or out on the camera screen while taking a photo or recording a video.

- On the camera screen, pinch or spread two fingers to zoom in or out, then use the displayed +/- slide bar.
- You can also drag Capture up, down, left, or right (depending on the phone's physical orientation). This feature is available only in Auto mode and Manual camera mode.

**NOTE** The zoom feature is not available when using the front camera.

# Clock

You use the Clock app to access the Alarm, World clock, Timer, and Stopwatch functions. Access these functions by tapping the tabs across the top of the screen or swiping horizontally across the screen.

## Alarm

1. Tap Home > Essentials folder > Clock > Alarm > Add.
2. Set an alarm by tapping the hour or minutes and selecting the desired time on the clock graphic. Tap Keypad to set the time using a keypad instead of the clock graphic. Tap AM or PM as necessary.
3. Set Repeat, Alarm sound, Alarm volume, Alarm with vibration, Snooze duration, Alarm note, and Puzzle lock.
4. Tap SAVE.

**NOTE** To access (and change) the alarm settings from the alarm list screen, tap the Options then tap Settings.

## World clock

The World clock allows you to set up a list of cities to easily check current times in other time zones with a quick glance.

1. Tap Home > Essentials folder > Clock > World clock.
2. Tap New City, search through the available cities, then tap the desired one.

**NOTE** A network connection is necessary to search for cities.

## Timer

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

1. Tap Home > Essentials folder > Clock > Timer.
2. Set the desired time on the timer.
3. Tap Start to start the timer.
   - Tap Pause to pause the timer.
4. Tap Stop to stop the timer.

## Stopwatch

The Stopwatch allows you to use your device as a stopwatch.

1. Tap Home > Essentials folder > Clock > Stopwatch.
2. Tap **Start** to initiate the stopwatch.
   - Tap **Lap** to record lap times.
3. Tap **Pause** to suspend the stopwatch.
   - To resume the stopwatch, tap **Resume**.
   - To clear all the records and reset the stopwatch, tap **Reset**.

# Contacts

The Contacts app allows you to store names, phone numbers, and other information in your phone's memory. Entries are listed alphabetically. You can scroll through the list or select the Groups tab.

Use the Contacts app to add, view, and communicate with your friends, acquaintances, and associates.

## To open your Contacts app

▸ Tap ◯ **Home** > **Essentials** folder > **Contacts**.

**NOTE** You can also tap the **Contacts** tab from the **Phone** app.

If you don't have any contacts in your Google Account or on your SIM card, hints will be displayed to help you start adding contacts to your phone.

## Contacts list

When you open the Contacts app, your contacts list is displayed. The alphabet is displayed vertically along the right side of the screen. You can drag along it or tap the desired letter.

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

## To add ICE entries

1. Tap ◯ **Home** > **Essentials** folder > **Contacts**.
2. Tap **In Case of Emergency contacts** (at the top of the list).
3. Tap the **Add entry**.
4. Checkmark the entry (or entries) to add to your ICE list, then tap **ADD**.

### ICE Information

In addition to your emergency contacts, you can enter personal information about you (such as health record, allergies, medications, special instructions, etc.) that can be accessed in case of an emergency. To add your personal information:

1. From the emergency contacts screen, tap the ⓘ **Information**.
2. Tap + **Add**, enter your information, then tap **SAVE**.

### To search for a contact

1. Tap ○ **Home** > **Essentials** folder > **Contacts**.
2. Tap the **Search contacts** box and enter the contact name. Matches are displayed as you begin to type.

### Searching your online contacts simultaneously

You can search for your contacts simultaneously from all of your online accounts.

To set your phone to search simultaneously,

1. Tap ○ **Home** > **Essentials** folder > **Contacts**.
2. Tap ⋮ **Options** > **Contacts settings** > **Online search**.

### To open your groups list

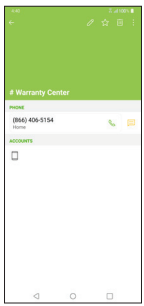
- Open the **Contacts** app and tap **Groups**.

  **Groups** displays your contacts by category (at the top of the screen) and your accounts (at the bottom of the screen).

**NOTE** Tap ⋮ **Options** from the Groups to access **Delete**, **Share**, **Change order**, **Default screen**, **Contacts settings**, and **Help**.

### To view details about a contact

1. Tap ◯ **Home** > **Essentials** folder > **Contacts**.
2. Tap the contact whose details you want to view.




3. The information you entered for the contact is displayed. The following options are available (depending on the types of information saved).
   - **Dial** places a call to the number.
   - **Message** starts a message.
   - **Email** starts an email.
   - **Options** accesses the following menu options: **Share, Forward, Merge, Back up,** and **All calls to voicemail**.

## Adding Contacts

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

Since your contacts can come from a variety of sources, the Contacts app attempts to merge new information with existing similar contact entries to create a single entry. You can also manually merge or separate entries.

### To add a new contact

1. Tap Home > Essentials folder > Contacts.
2. Tap New contact.
3. Tap the Accounts field to select an account in which you want to save the contact, if necessary.

**NOTE** To change the account later, edit the entry, tap the account, then tap the desired account.

4. Enter the contact's name.
5. Tap a desired category, such as phone number or email address, to enter details about the contact.
   - Tap Add under a category to add more than one entry for that category. For example, in the phone number category, enter a work number and add a home number. Tap the label field to the right of the entered information to open a drop-down menu of preset labels. For example, Home, Work or Other for a phone number.
   - Tap More to add additional fields.
6. Personalize the contact entry.
   - Set the group this contact belongs in.
   - Set a ringtone to identify calls from this contact.
   - Set a message alert sound to identify notifications from this contact.
   - Tap Image to select a picture to identify the contact.
7. When you're finished, tap SAVE.

### Editing a Contacts entry

1. Tap Home > Essentials folder > Contacts, and then tap the contact entry you want to edit.
2. Tap Edit.
3. Edit the entry as needed, then tap SAVE.

## Merging and separating contacts

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

1. Tap Home > Essentials folder > Contacts, and then tap the contact entry you want to merge with another entry.
2. Tap the Menu, then tap Merge.
3. Select the entry you want to merge.

Once entries have been merged, Separate becomes available in the options menu to allow you to separate the merged entries.

1. Tap Home > Essentials folder > Contacts, and then tap the contact entry you want to separate.
2. Tap Options, then tap Separate.
3. Tap SEPARATE to confirm.

## Setting Speed Dials

### Designating multiple speed dials

1. Tap Home > Essentials folder > Contacts, and then tap Options.
2. Tap Speed dial.
3. Tap the speed dial number to assign, then tap the Contact entry for it.
4. Repeat selecting a speed dial number and the desired Contact entry as necessary.

# File Manager

Use the **File Manager** app to easily view and manage your folders and files stored in your phone. To access the desired file(s), manually browse by tapping any folder icon (and subsequent folder icons within each folder), or enter search text by tapping **Search**.

## To open the File Manager app

Tap **Home** > **Essentials** folder > **File Manager**.

## Using File Manager

- : Allows you to select the desired storage location. Choose from **Internal storage, SD card,** and **Cloud**.
- : Allows you to search for desired files by entering text.
- : Allows you to open two File Manager apps to move or copy files between folders.
- : Allows you to select folders or files to delete.
- : Allows you to access **New folder, Move, Copy, Share, Compress, View as, Sort by, Show/Don't show hidden files, SD card settings**, and **QSlide**.

## Searching in File Manager

Open the **File Manager** app, select where you want to search (Internal storage, SD card, or Cloud) if necessary, then tap **Search** to search for your files or information.

# Gallery

## Gallery overview

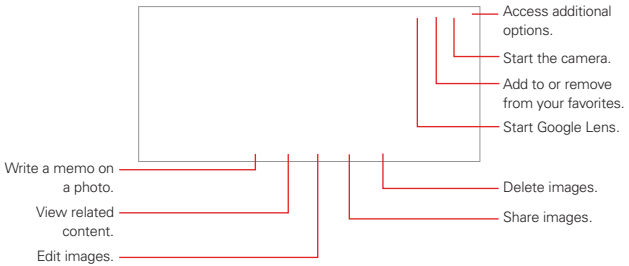
You can view and manage photos and videos that are saved on your device.

1. Tap Home > Gallery.
   - Saved photos and videos are displayed by folder.
2. Tap a folder and select a file.
   - View the selected file in full-screen mode.
   - While viewing a photo, swipe left or right to view the previous or next photo.
   - While viewing a video, swipe left or right to rewind or fast-forward the video.
   - When you take a photo by using the AI CAM feature, a Tags folder is created under the Albums tab of the Gallery app. The photos are automatically classified by tags under the Tags folder.
   - You can view the photos or videos organized by year, month or day in the Photos tab.
   - To view photos by location at which the photo was taken, tap Home > Camera > Setting > Tag locations, then tap ON/OFF. The photos are automatically grouped by location under the Memories tab of the Gallery app.

**NOTES**

- Some file formats may not be supported, depending on the installed software.
- Some files may not open due to encoding.
- Files that exceed the size limit may cause an error.
- You need to activate the GPS feature to create contents in Memories.

## Viewing photos




**NOTE** To display the menu items, gently tap the screen. To hide the menu items, tap the screen again.

## Editing photos

1. While viewing a photo, tap Edit.
2. Use a variety of effects and tools to edit the photo.
3. Tap **Save copy** to save changes.

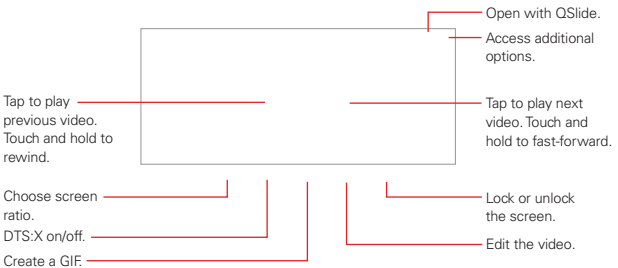
## Writing a memo on the photo

1. While viewing a photo, tap Memo.
2. Write a memo on the photo and tap **SAVE**.
   - The memo is applied to the photo.

**NOTE** Some photos may not support the photo memo feature.

## Playing a video

Select a video from an album in your Gallery. Playing it using the Videos app provides the following options.

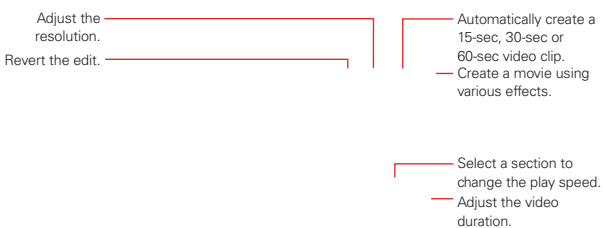



**NOTES**

- To adjust the sound volume, drag the right side of the video screen up or down.
- To adjust the screen brightness, drag the left side of the video screen up or down.

## Editing videos

1. While viewing a video, tap Edit.
2. Use a variety of effects and edit tools to edit the video.




3. Tap SAVE to save changes.

### Creating a video

You can create a new video by putting images and videos together.

### Related files

You can relate files with photos and videos taken at the same place or on the same date.

1. Select one of the saved photos and videos and tap Related.
2. Select a desired folder, then tap Play to create a video.
3. Tap SAVE to save the video.

### Deleting files

You can delete files by using one of the following options:

- Touch and hold a file from the file list, then tap Delete.
- Tap Delete in an album, select files you want to delete, then tap DELETE.
- Deleted files are automatically moved to Trash and they can be restored to Gallery within 7 days.
- In Gallery, tap Option > Trash. Tap Delete to permanently delete the files. In this case, the files cannot be restore.

### Sharing files

You can share a file using one of the following options:

- On the photo or video screen, tap Share to share the file using the desired method.
- Tap Share from the Albums screen to select one or more files and share using the desired method.

# Game launcher

You can use Game launcher to view the entire list of installed games, or set the device to mute or prevent any notifications while playing games.

1. Tap ○ Home > Essentials folder > Game launcher.
2. Select the desired option.

# LG Health

## LG Health overview

You can set the goal of daily exercise and check the amount of physical exercise to monitor your health and fitness information.

**NOTES**

- Health related information provided by LG Health is designed for user convenience and cannot be used for purposes of disease prevention, treatment, diagnosis or other medical issues.
- LG Health may vary or may not be available, depending on the country and the mobile service provider. LG Health functions that are available and apps that can be added to LG Health may vary, depending on the country. This is due to differing laws and regulations.

## Getting started with LG Health

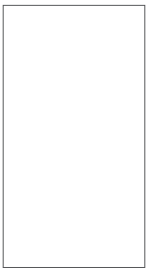
You can configure LG Health when launching the app for the first time or after resetting it.

1. Tap ○ Home > Essentials folder > LG Health.
2. Follow the on-screen instructions to complete the setup.

## Using LG Health

You can easily manage the details of physical exercise and health information on LG Health.

1. Tap ○ Home > Essentials folder > LG Health.
2. The following options are available:



- : View your exercise logs.
- : Record the route and amount of your physical exercise for each type of exercises performed.
- : Set your daily exercise goals including calories and number of steps, and customize LG Health settings.

# Messaging

You can create and send messages to your contacts using the Messaging app.

## To open the Messaging app

- Tap Home > Essentials folder > Messaging.

## Using the Messaging app

To use the **Messaging** features, you must set it as the default messaging app.

**NOTE** You can view your messages in the Messaging app without setting it as your default app, but you can't create a message.

- Tap **New message** to start a new text or multimedia message.

- Tap an existing message thread to open it.
- Tap **Delete** to delete message threads.
- Tap **Options** to access **Settings** and **Help**.

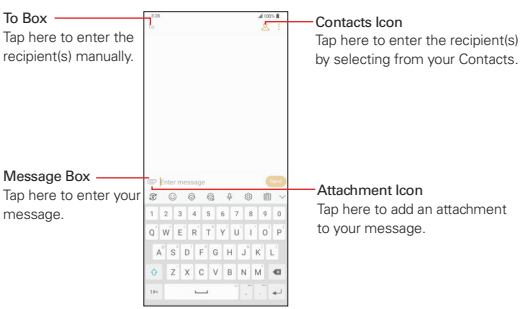
**NOTE** Pinch in (or spread apart) on your list of messages to resize it for easier viewing or navigation.

### To delete a message thread from the Messaging window

1. Touch and hold the message thread.
2. Tap **Delete** in the context menu that opens.
3. Tap **DELETE** to confirm you want to delete the message thread.

### To send a text message

1. Open the **Messaging** app (set it as your default, if necessary), then tap **New message**.
2. Enter the recipient(s) in the **To** box.
   - Tap **Contacts**, select one or more entries from your Contacts, then tap **DONE**.
   - Enter a name (or a partial number), then tap a suggestion displayed from your Contacts.
   - Enter a number manually for phone numbers not in your Contacts.
   - Tap the message box, then enter your message.




If you tap **Back** while composing a message, it is automatically saved as a draft. Tap the message thread to resume composing it.

3. Tap **Options** > **Add subject** to add a message subject.

   The subject text appears above the body text in bold letters.

4. Tap **Attach** to open a dialog box where you can choose the type of media file to attach to the message.

**NOTE** To delete an attachment, simply tap **Delete** on the attached file.

5. Tap **Send** to send the message.
   Your sent and received messages appear in the same window, creating a message thread with that contact.

## Receiving and viewing messages

If you receive a message from a contact while in the message window with the contact, the message will be received without any notification. Otherwise, you'll receive a new message notification based on the **Notification** settings.

- If the **Show as pop-ups** option is enabled, you'll receive a pop-up notification on the current screen which you can use to directly reply.

If the message contains a media file, tap the **Play** to view, watch, or listen to it. Touch and hold the media file to open a context menu with additional options.

**TIP** While viewing a message thread, you can tap **Call** to place a call instead of sending a message.

## To respond to messages you receive

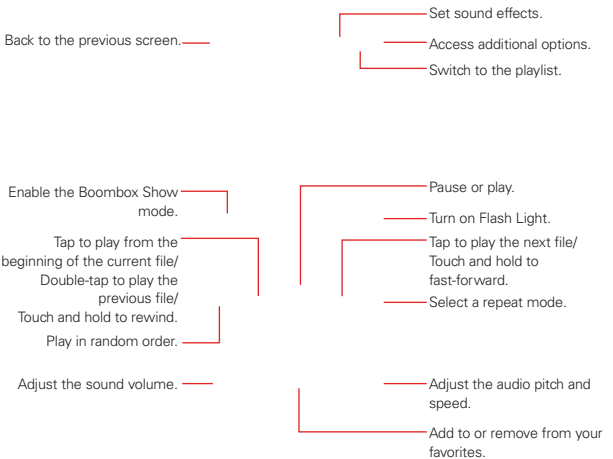
While viewing the received message, tap the message box at the bottom of the screen, complete your response as necessary, then tap **Send**.

## Changing Messaging Settings

- To change the Messaging settings, open the **Messaging** app (set it as your default, if necessary), tap **Options** > **Settings**. Messaging settings include **Notifications, Background, Blocked numbers, Quick reply,** and more.

# Music

Your phone has a music player that lets you play all of your favorite tracks. To access the Music player, tap Home > Essentials folder > Music.



## Playing a song

1. Tap Home > Essentials folder > Music.
2. Select a category.
3. Tap the song you want to play.

**NOTES**

- Some file formats may not be supported, depending on the installed software.
- Files that exceed the size limit may cause an error.
- Music files may be protected by international copyright owners or copyright laws. You may have to obtain legal permission before copying a music file. To download or copy a music file, first check the copyright law for the relevant country.
- This model supports Hi-Fi audio playback. Hi-Fi audio files display the Hi-Fi icon.
- When the Boombox Show feature is activated, visual effects including flash are played to the music.

## Other Music player options

- Touch and hold any song in the Music library to access its context menu which includes: **Add to playlist, Delete, Phone ringtone, Caller ringtones** and **Details**.
- Tap **Options** in the Music library to access its options menu which includes: **Sound quality and effects**, **Cloud, Select to play, Add to playlist,** and **Settings**.

## Exiting the Music player

To exit the Music player, swipe the Status Bar downward, then tap **Close** in the upper-right corner of the Music notification.

**NOTE** When you select Caller ringtones, tap a desired contact to set it.

# Multi-tasking feature

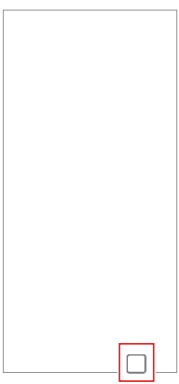
## Multi window

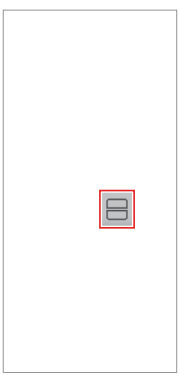
You can use two apps at the same time by separating the screen into the multiple windows.

1. Tap **Recent apps** from the Home touch buttons.
   - Recently-used apps appear.
2. Tap **Multi window** at the top of the desired app to use the Multi window feature.
   - The selected app appears at the top half of the screen.

You can also access this feature doing the following:

1. Touch and hold **Recent apps** while using an app.
   - Recently-used apps appear on the split screen.
2. Tap **Multi window** at the top of the desired app to use the Multi window feature.
   - The selected app appears at the bottom half of the screen.





**NOTES**

- To deactivate the Multi window feature, touch and hold **Multi window** on the Home touch button.
- To adjust the size of the split screen, drag **Multi window bar** at the center of the screen.
- The Multi window feature is not supported by some LG apps and apps downloaded from Play Store.

## Overview screen

The Overview screen provides a preview of your recently used apps.

To view the list of recently used apps, tap **Recent apps** on the Home, then tap the displayed app.

# Phone

## To open the Phone app

▸ Tap ◯ Home > Phone.

**Call**
Tap here to dial the number that you entered manually.

**Voice Dialer**
Tap here to dial by saying the number.

Touch and hold 0 to enter the plus ( + ) symbol to dial an international number.

**Message**
Tap here to send a message to the number that you entered.

**Voicemail**
Tap here to access your voicemail feature.

## Moving between the Phone app tabs

Tap any of the **Phone** app tabs (**Dial, Recent, Contacts**, and **Groups**) at the top of the screen to view that tab. You can also swipe the screen horizontally to scroll to the other tabs. The name of the current tab is underlined.

## Making a call by dialing

1. Tap ◯ Home > Phone > Dial.
2. Use the dialpad to enter the number you want to call.
3. Tap Call (on the dialpad) to dial the number that you entered.

## Ending a call

- Simply tap End on the Call screen to end the call.

If you accessed other device functions while the call was in progress, there are several ways to return to the Call screen to end the call.

- Tap the **Ongoing call** portal.
- Tap Home > Phone.
- Drag the Status Bar down, then tap End in the Current call notification.

**NOTE** You can also press Power/Lock button to end the call if you activated this feature in the Call settings (tap Options > **Call settings** > **Answer and end calls** > enable the **End call with the Power key** switch).

## Answering or Rejecting Calls

When you receive a phone call, the Incoming call screen opens with the caller ID and any additional information about the caller that you've saved in the contact's entry. All incoming calls are recorded in the **Recent** tab.

### To answer a call

- Drag Answer in any direction to answer the call.

### To ignore a call and divert it to Voicemail

- Drag Ignore in any direction to ignore the call.

**NOTE** To silence the incoming call ringer, press either of the **Volume** buttons.

### To ignore a call and send a text message

To display the **Ignore with message** option on the Incoming call screen, enable it in the Phone app's Call settings menu.

1. Tap Home > Phone > Options > **Call settings**.
2. Tap **Call blocking & Ignore with message** > **Allow ignore with message** switch to toggle it On (blue).

**TIP** Tap **Allow ignore with message** to manage your text message choices.

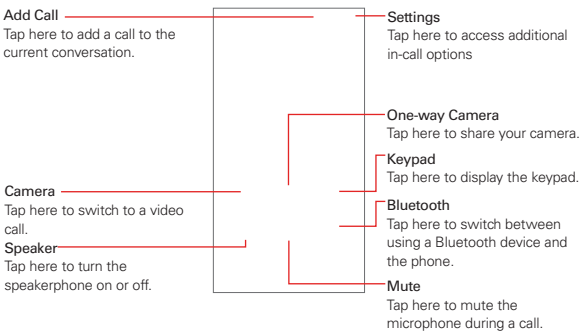
**NOTE** This feature can only be used to send a message to another mobile phone. It's not applicable to incoming landline calls.

### Checking an incoming call while using an app

When a call comes in while using an app, a pop-up notification can be displayed at the top of the screen. You can receive the call, reject the call, or send message from the pop-up screen.

**NOTE** Tap Home > Phone > Options > **Call settings** > **Additional settings** > **Show voice calls while in an app,** then select **Pop-up.**

## During a Call




**NOTES**

- Tap Options on the Call screen to access Contacts.
- Place your ear against to hear the sound more clearly and loudly.

## Recent Tab

The **Recent** tab records all of the calls you've dialed, received, missed, or ignored. It offers a convenient way to redial a number, return a call, or add a number to your **Contacts**.

### Opening the Recent tab

▸ Tap Home > Phone > **Recent**.

The **Recent** tab lists your calls chronologically by phone number and call type. The number in parenthesis indicates the number of calls recorded for that phone number and type.

### Viewing call entry details

Open the **Recent** tab, then tap an entry to view all of call history for that phone number and call type. Each one includes the call type (received, dialed, missed, and ignored), the date and the time of the call.

### Filtering your list of calls

Tap **Home** > **Phone** > **Recent**, and then **Options** > **Filter**. Tap the call type you want to view.

Tap **Back** to return to the **Recent** tab screen.

### Dialing a number in the Recent tab

- From the **Recent** tab, tap **Call** at the right of the call entry.
- From the **Recent** tab, tap the image to the left of the call entry to view other information saved in your phone's memory for that contact. Tap a phone number to dial it.

**TIP** To insert an area code when you're traveling, touch and hold the entry, then tap **Copy number** in the context menu. Change to the **Dial** tab, touch and hold the phone number field, tap **PASTE**, then edit the number as necessary before tapping the **Call**.

### Deleting your Recent calls

You can delete the entire list of Recent calls at once or selectively.

1. Tap **Home** > **Phone** > **Recent**.
2. Tap **Options**.
   - Tap **Clear** to select entries to remove from the list. Checkmark the entries to delete, tap **CLEAR**, then **CLEAR**.
   - Tap **Clear all** to remove all of the entries from the list. Tap **CLEAR** to confirm you want to delete the entire list.

**NOTE** You can also select a specific number to be deleted. Touch and hold an entry in the Recent tab. Tap **Clear all logs of this number**, then tap **CLEAR** to confirm.

## Speed Dial

### Create a Speed Dial

1. Tap Home > Phone.
2. Tap Options > Speed dial.
3. Tap Add contact and select a name or number to set up a speed dial.

### Making a call using Speed Dial

1. Tap Home > Phone.
2. Touch and hold the Speed dial number.

## Managing Multiple Calls

Contact your wireless service provider to find out which call services are supported.

### To switch between current calls

The current call will be placed on hold and you'll be connected with the other call.

### To set up a conference call

Contact your wireless service provider to find out whether they support conference calls and how many participants you can include.

1. Place a call to the first participant.
2. When you're connected, tap Add call on the Call screen.
3. Enter a phone number.
   - Use the Phone app tabs to select a saved number, then tap Call.

   OR

   - Use the buttons on the dialpad to manually enter a number, then tap the Call.
4. After you're connected, tap Merge on the Call screen. The participant is added to the conference call and the Call screen indicates a conference call is active.

## Voicemail

When you have a new voicemail message, the **Voicemail notification** appears in the Status Bar. If you haven't set up your voicemail number, or if you need to change it, you can do that in the Call settings. Tap **Options** in the **Phone** app (from the **Dial** tab or the **Recent** tab).

### To listen to your Voicemail

- Open the Notifications panel and tap **New voicemail**.

  OR

- Tap **Home** > **Voicemail**.

  OR

- Tap **Home** > **Phone** > **Dial** > **Voicemail**.

### To set up your Voicemail

Typically, your carrier's voicemail system guides you through the process of listening to and managing your voicemail. The first time you call your voicemail, it also guides you through the process of recording greetings, setting a password, etc.

1. Tap **Home** > **Phone** > **Dial**.
2. Touch and hold **1 Key** on the dialpad to call to your voicemail box.
3. Follow the setup tutorial.
   - Enter a password.
   - Record a voice signature and greetings for your voicemail box.

# QuickMemo+

QuickMemo+ provides you with the ability to make creative notes using a variety of options. This advanced notepad feature, unlike other conventional notepad apps, supports image management and screenshots.

## Creating a note

1. Tap Home > Essentials folder > QuickMemo+.
2. Tap Add to create a note, then use the tools and options as needed.
   - : Tap to save the note you created.
   - : Tap to undo the most recent action.
   - : Tap to redo the most recently deleted action.
   - : Tap to insert text into your memo.
   - : Tap to draw on your memo. Tap again to select the pen type, size, color, and transparency.
   - : Tap to erase pen marks you've made on the memo.
   - : Tap to select a section of your handwritten memo to modify (e.g., erase, rotate, expand, shrink, etc.).
   - : Tap to access additional options.
3. Tap Done to save the note.

## Writing notes on a photo

1. Tap Home > Essentials folder > QuickMemo+.
2. Tap Camera to use the Camera function. Tap Capture to take a photo, then tap OK.
   - The photo is automatically inserted in your note.
3. Write notes on the photo.
   - Tap Pen to write notes by hand on the photo.
   - Tap Type to enter text below the photo.
4. Tap Done to save the note.

## Writing notes on a screenshot

1. While viewing the screen you want to capture, drag the Status Bar downward and then tap Capture+ in the Quick settings.
   - The screenshot appears as the notepad background theme. Memo tools appear at the top of the screen.
2. Crop the image (if necessary) and take notes as desired.
   - Write notes by hand on the photo.
3. Tap Done and save the note to the location of your choice.
   - Saved notes can be viewed in either QuickMemo+ or Gallery.
   - To save notes in the same location all the time, select the **Use as default app** checkbox before selecting a desired app.

**NOTES**

- You can capture the entire screen by using the scroll capture feature.
- While using an app such as Messaging and Chrome, drag the notifications panel downwards and then tap Capture+ > Extended to capture the entire screen you are currently viewing as a single file.
- This feature is available only on some apps that support the scroll capture feature.

## Managing folders

You can view notes grouped by the type of the notes.

1. Tap Home > Essentials folder > QuickMemo+.
2. At the top of the screen, tap Option and select a menu item:
   - **All memos**: View all notes saved in QuickMemo+.
   - **My memos**: View notes created by QuickMemo+.
   - **Coloring book**: View the coloring book. Select the drawing you want to color.
   - **Scratch art**: View all the Scratch art you have created.
   - **Trash**: View deleted notes.
   - **Photo memos**: View notes created by Camera.
   - **New category**: Add categories.
   - **Setting**: Rearrange, add or delete categories. To change the name of a category, tap the category.

**NOTE** Some folders do not appear when launching QuickMemo+ for the first time. Disabled folders are enabled and appear when they contain at least one related note.

# Voicemail

The **Voicemail** app allows the management of voicemail directly from the phone rather than accessing voicemail via traditional methods.

**Voicemail** can display a list of your messages allowing you to choose which message(s) to listen to or delete, without having to dial into your mailbox and listen to voice instructions or prior messages.

## To be able to use Voicemail

1. Tap ○ **Home** > **Voicemail**.

**NOTE** Listening to voicemail and setting up your voicemail service depends on subscription to the Visual Voicemail service. When you tap **Voicemail** on the dialpad, and you've subscribed to the Visual Voicemail service, the Visual Voicemail app will be launched.

2. The first time you access the **Voicemail** app, you'll have to subscribe to the **Visual Voicemail** service to be able to use it.
3. After subscribing to the **Visual Voicemail** service, you'll be prompted to enter the password. To change the password, call voicemail (dial *86).
4. After entering the password, your voicemail entries will be displayed in your Inbox.

   While viewing the voicemail list, you can select an entry (see step 5). For additional options, tap ⋮ **Options**. The following options are available: **Search, Save, Set as heard, Sort by, Saved Voicemail, Refresh,** and **Settings**.
5. Tap a voicemail entry to listen to it.

## Google Apps

To use Google apps, a Google Account needs to be registered in your device first. The Google Account registration window appears automatically when you use a Google app for the first time (if you didn't register your account when you initially set up your device). If you do not have a Google Account, create one from your device. For details on how to use an app, refer to the Help text in the app.

### Drive

Upload, save, open, share, and organize files from your device. Files accessible from apps can be accessed from anywhere, including online and offline environments.

### Docs

Docs is a collaborative, word-processing tool that enhances productivity. Use Docs to create, edit and work together in real-time.

### Maps

Find your location or the location of a specific place on a map. View geographical, traffic, or transit information. Get directions to destinations.

### Photos

View or share photos or albums saved on your device. Edit or enhance your photos.

### Duo

Make a video call with your family, friends and anyone else who uses the app.

### Chrome

Sign in to Chrome and import opened tabs, bookmarks, and address bar data from a computer to your device.

### Gmail

Register your Google email account in your device to check or send email.

### Play Movies & TV

Use your Google Account to rent or purchase movies. Purchased contents can be played anywhere.

### YouTube

Search for and play videos. Upload videos on YouTube to share them with people around the world.

### Play Music

Use your Google Account to purchase music files from Play Store. Play music files saved on your device.

### Sheets

Sheets is a collaborative spreadsheet processing tool that enhances productivity. Use Sheets to import, organize and analyze information together in real-time.

### Slides

Google Slides is a collaborative presentation creation tool that enhances productivity. Use Slides to organize information, present results, and make decisions together in real-time.

### Google Pay

Add credit or debit cards and use Google Pay to make payments.

### Google

Use Google to search for web pages, images, news and more by entering or speaking keywords.

# Settings

The **Settings** app allows you to customize and personalize your phone by setting how its screens look, how it notifies you, how it reacts, and a lot more.

**NOTE** Settings that are specific to an app are accessed through its own Settings menu within the app. For example, the Chrome app has settings specific to your Internet access.

## To open the Settings app

- Tap ◯ **Home** > **Settings**.

**TIP** The upper-right corner of the Notifications panel also has a **Settings** icon that you can tap to open the **Settings** app.

## Viewing settings

Tap ⋮ **Options** at the upper-right corner of the Settings app, then tap **Tab view** (or **List view**).

- **List view** Scroll up and down through the list.
- **Tab view** Swipe left and right or tap the desired tab.

**NOTE** The instructions to perform tasks in this guide are based on the default **List view** setting.

# Network & internet

The Network & internet category allows you to configure and manage your device's wireless radio communications.

## Airplane mode

Tap its switch to toggle it ON or OFF. On disables all wireless connections.

## Wi-Fi

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

### Connecting to Wi-Fi networks

To use Wi-Fi on your phone you need to access a wireless access point or 'hotspot'. Some access points are open and you can simply connect to them.

Others are hidden or use security features. You must configure your phone to be able to connect to them. Turn off Wi-Fi when you're not using it to extend the life of your battery.

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

1. Tap Home > Settings > **Network & internet** > **Wi-Fi**.
2. Tap **Wi-Fi ON/OFF** to turn Wi-Fi on and start scanning for available Wi-Fi networks.
3. Tap to see a list of active and in-range Wi-Fi networks.
   - Secured networks are indicated by a lock icon.
4. Tap a network to connect to it.
   - If the network is secured, you're prompted to enter a password or other credentials. (Ask your network administrator for details.)
5. The Status Bar displays icons that indicate your Wi-Fi status.

### Wi-Fi network settings

Allows you to set up many of your device's Wi-Fi services.

**Options** Accesses the Wi-Fi options menu.

**Add Wi-Fi** Allows you to manually add a Wi-Fi network by entering its name (SSID), security, and password.

**Saved Wi-Fi** Displays your saved Wi-Fi networks allowing you to manage them.

**Advanced Wi-Fi** Provides additional specific Wi-Fi connection settings.

NOTIFICATIONS

**Wi-Fi notification** Enable this option to be notified when Wi-Fi networks are available nearby.

**Show Wi-Fi pop-up** Enable this option to be notified when a Wi-Fi network is available when you launch an app.

USEFUL SETTINGS

**Avoid bad Wi-Fi connections** Enable this option to use the mobile network whenever the Wi-Fi network you're connected to doesn't have an Internet connection. (Data usage may apply.)

CONNECTION

**Wi-Fi Direct** Allows you to connect with Wi-Fi devices without any access point.

**Connect by WPS button** Provides information to connect to a secured Wi-Fi network with a WPS button.

**Connect by WPS PIN** Provides the WPS PIN to connect to a secured Wi-Fi network.

PERSONAL

**Install certificates** Allows you to install certificates from storage.

INFORMATION

**MAC address** Displays your phone's MAC address (which may need to be entered in the router to connect to some wireless networks with MAC filters).

**IP address** Displays your phone's IP address.

**Help** Displays information about Wi-Fi networks.

### Wi-Fi Direct

You can connect your device to other devices that support Wi-Fi Direct to share data directly with them. You do not need an access point. You can connect with more than two devices by using Wi-Fi Direct.

1. On the settings screen, tap **Wi-Fi** > ⋮ **Options** > **Advanced** **Wi-Fi** > **Wi-Fi Direct**.
   - ▸ Nearby devices that support Wi-Fi Direct automatically appear.
2. Select a device.
   - ▸ Connection occurs when the device accepts the connection request.

## Tethering & Mobile Hotspot

You can set the device as a wireless router so that other devices can connect to the Internet by using your device's mobile data.

### Mobile Hotspot

1. On the Tethering & Mobile Hotspot screen, tap **Mobile Hotspot** and then tap the switch to toggle it ON or OFF.
2. Tap **Set up Mobile Hotspot**, and enter the Wi-Fi name (SSID) and password.
3. Turn on Wi-Fi on the other device, and select the name of the device network on the Wi-Fi list.
4. Enter your device's Mobile hotspot password on the target device.

**NOTES**
- This option uses mobile data and may incur data usage fees, depending on your pricing plan. Consult with your service provider for more information.
- More information is available at this web site: http://www.android.com/tether#wifi

**Set up Mobile Hotspot** Allows you to enter the SSID and security information for your mobile hotspot.

**Manage connections** Allows you to control which devices are allowed to use your device as a hotspot.

**Timeout** Allows you to set when to turn off your hotspot.

**Wi-Fi Sharing** When you activate this feature with the device connected via Wi-Fi, the shared devices are connected to the network by using the device's Wi-Fi. If this feature is deactivated, the mobile data features is used for network connection.

### CONNECTED DEVICES

Displays all connected devices.

**NOTE** Tap ⋮ **Options** to access mobile hotspot tips and help.

**USB tethering** Enable this option to allow you to connect via USB. This option is gray when not connected via USB.

**Bluetooth tethering** Enable this option to share the phone's Internet connection with other Bluetooth devices.

**Help** Displays help information regarding connecting other devices to your phone's Internet connection.

## Data usage

**Mobile data** Enable this option to allow connection to the mobile network. This switch allows you to manage your mobile data usage (e.g., disconnect from the mobile network to stop using mobile data and exclusively use a Wi-Fi network connection for data instead).

**Limit mobile data usage** Enable this option so you can set the amount of data that can be used during your cycle date. When that amount is reached, your mobile data network connection will be disabled.

**Alert me about data usage** Enable this option so you can set the amount of data usage that will trigger an alert.

**Cycle date** The date displayed is your current data usage cycle. Tap it to change it.

**Graph** Displays a visual of your data usage. Limit lines are displayed if the data usage switches are enabled.

**Apps list** All of the apps that use data are listed.

⋮ **Options** Accesses the Data usage options menu.

**Display in MB/GB** Changes the data usage units.

**Data Saver** Allows you to enable the **Data saver** option which restricts the data that runs in the background. You can set individual apps to have unrestricted data access when Data saver is enabled.

**Show Wi-Fi usage** Checkmark this option to display a Wi-Fi tab (in addition to the Mobile tab) to view your Wi-Fi data usage.

**Metered Wi-Fi networks** Allows you to select Wi-Fi networks to restrict apps that run in the background and be notified when downloading large files.

**Mobile networks** Allows you to set various mobile network settings.

## Advanced Calling

You can make High-Definition Voice and Video Calls, and surf the web while talking on the phone, when you add Advanced Calling to your line.
Visit **verizonwireless.com/AdvancedCalling** to learn how.

### Activating Advanced Calling

1. Tap Home > Settings > **Network & internet** > **Advanced Calling**.
2. Tap **Wi-Fi Calling On/Off** to turn on or off.
3. Choose from **HD Voice and Video calling** or **HD Voice Only**.

## Wi-Fi Calling

You can use Wi-Fi Calling to improve your coverage and to make phone calls over a Wi-Fi network when the network is available.

To set your connection preferences:

1. Tap Home > Settings > **Network & internet** > **Wi-Fi Calling**.
2. Tap to activate it.
3. Tap which network you want to use for calls.
   - **Cellular network preferred (Default)**: Use cellular network for calls. If cellular network is unavailable, use Wi-Fi.
   - **Wi-Fi preferred**: Use Wi-Fi for calls. If Wi-Fi is unavailable, use cellular network.

## Mobile networks

Allows you to set various mobile network settings.

**Data roaming** Allows you to set when to allow data roaming.

**System select** Allows you to set your preferred network mode, as well as network submodes and operators.

**Network type and strength** Displays the current network type and the signal strength.

**Access Point Names** Allows you to set up APNs for data service.

**Roaming state** Displays your current roaming state.

### VPN

Allows you to set up VPNs (Virtual Private Networks). Choose **Basic VPN** or **LG VPN**.

**NOTE** Tap ⋮ **Options** from the LG VPN screen to access **Log**, **Settings**, **Import certificates**, **Delete all**, and **About**.

### Wireless Emergency Alerts

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

### Private DNS

Allows you to use private DNS mode.

## Connected devices

### Bluetooth

You can connect your device to nearby devices that support Bluetooth to exchange data with them. Connect your device to a Bluetooth headset and a keyboard. This makes it easier to control the device.

#### Pairing with another device

You must pair your phone with a Bluetooth device before you connect to it.

1. Tap ○ **Home** > **Settings** > **Connected devices** > **Bluetooth**.
2. Tap **Bluetooth ON/OFF** to turn Bluetooth on and search for the devices within your phone's range.
   - Available devices appear automatically.
   - To refresh the device list, tap ↻.

   **NOTE** Only devices set as visible are displayed on the list.
3. Choose the device you want to pair with from the list.
4. Follow the on-screen instructions to perform authentication.

   **NOTE** This step is skipped for previously accessed devices.

Once pairing is successful, your phone will connect to the device.

### Sending data via Bluetooth

1. Open the item you want to send, then tap **Share**.

   OR

   Touch and hold the item you want to send, then select **Share**.

   OR

   Open the item you want to send, then tap **Options** > **Share**.
2. Tap **Bluetooth** to share via Bluetooth.

   **NOTE** The method for selecting an option may vary by data type.
3. Search for and pair with a Bluetooth-enabled device.

### Receiving data via Bluetooth

1. Tap **Home** > **Settings** > **Connected devices** > **Bluetooth**.
2. Tap **Bluetooth ON/OFF** to turn Bluetooth on
3. Tap **ACCEPT** when you receive a data request.

## Screen sharing

Allows you to project your phone's content on a compatible TV.

Tap the switch at the top of the Screen sharing screen to toggle it On or Off.

**LG Stylo 5** Allows you to change your phone's name to easily identify it.

**AVAILABLE DEVICES**

Displays all of the devices that can project your content via Miracast.

**SEARCH** Refreshes the available devices list.

**HELP** Displays information regarding how to use Miracast.

## NFC

Enable this option to allow you to send or receive files simply by bringing your phone and another data-compatible device together (typically within 20 mm of each other) at the NFC touch point. NFC (Near Field Communication) establishes radio communication between smartphones and similar devices. Tap NFC to manage its settings.

NFC SECURITY ALERTS

**Show NFC security alerts** Enable this option to display a permission alert when another device tries to send you information via NFC.

ALERTS TO SHOW

**Read/Peer to Peer** Enable this option to display a confirmation alert when receiving a contact or URL via NFC.

**Connection handover** Enable this option to display a confirmation alert when pairing devices via NFC.

## Android Beam

Enable this option to allow you to beam app content or files to other mobile devices by holding them close together. Tap **Android Beam** to view information on how to use it.

## Sharing panel

Allows you to share contents with nearby devices or specific people.

## File sharing

Allows you to send and receive files between your device and other LG devices or tablets.

**Stylo** Allows you to change your phone's name for easy identification when setting up your devices for beaming.

**Save to** Allows you to set where to save your shared files.

**File sharing** Enable this option to make your device visible to BLE devices and exchange files.

**SmartShare Beam** Enable this option to receive multimedia content via SmartShare Beam from another LG phone or tablet.

**Help** Displays information regarding how to use file sharing.

## Media server

Allows you to share the phone's multimedia content with nearby DLNA-compatible devices.

**Content sharing** Enable this option to allow nearby devices to access your content.

YOUR PHONE

**Stylo** Allows you to change your phone's name to easily identify it.

**Content to share** Allows you to set the type of content you want to share between devices.

NEARBY DEVICES

**Allowed devices** Displays the nearby devices that can access your phone.

**Not-allowed devices** Displays the nearby devices that will be denied to access your phone.

## MirrorLink

Allows you to share apps between your device and the vehicle. To obtain more information about apps, please visit https://mirrorlink.com/apps.

**NOTE** For your driving safety, access to some features will be restricted during a MirrorLink session.

**Connect via USB cable** Enable this option to use MirrorLink by USB cable with a vehicle. This setting is gray until the device and vehicle are connected with a USB Type-C cable.

**NOTE** Tap ⋮ **Options** to configure MirrorLink USB auto-connect.

APPS

Displays the list of apps that can be shared between your device and the vehicle.

## Printing

Allows you to set up wireless printer(s).

PRINT SERVICES

Displays the list of your available print apps.

## Sound

### Sound profile

Allows you to set your device's sound profile to Sound, Vibrate only, or Silent.

### Volume

Allows you to set individual volume levels for ringtone, notifications, touch feedback, and other media.

### Ringtone

Allows you to set the ringtone for calls. You can also add and delete ringtones.

### Ringtone ID

Enable this option to allow you to set a unique ringtone for each caller.

### Ring with vibration

Enable to set the device to vibrate in addition to the ringtone when you receive calls.

### Flash alert for incoming call

Set the flash to blink according to LG ringtone.

### Notification sound

Allows you to select a sound effect for new notifications. You can also add and delete notification sounds.

### Do not disturb

Enable this option to allow you to set up and schedule when to prevent interruptions from notifications. You can set specific parameters that will override the option when set to Priority only.

### Sound quality and effects

Use the function to set the sound quality and effects while playing a song or video.

### VIBRATION

**Vibration strength** Allows you to set the vibration strength for calls, notifications, and touch feedback.

**Vibration type** Allows you to set the vibration pattern.

**Vibrate on tap** Enable this option to feel a vibration when you tap the Home touch buttons or app icons.

### SOUND EFFECTS

Allows you to set when a sound is emitted to notify you of an event. Enable **Dialing keypad sound**, **LG Keyboard sound**, **Touch sound**, **Screen lock sound**, **Sound when roaming**, and set the **Emergency tone**.

## Display

### Home screen

GENERAL

**Select Home** Allows you to set the layout for the Home screen. You can choose the standard Home layout that displays all apps on the Home screen, or a layout that stores all installed apps separately which allows you to selectively set app shortcuts on your Home with separate apps list, or EasyHome a simple layout with a large font size.

STYLE

**Wallpaper** Select a desired screen wallpaper, theme and AOD for your device.

**Screen swipe effect** Allows you to set the effect shown when you swipe to change screens.

**Icon shape** Allows you to choose the desired icon shapes on the Home screen.

LAYOUT

**Left Home screen** Choose **AppFlash, Smart Bulletin,** or **None** to display on the left screen of the Home screen panel.

**Sort apps by** Allows you to set how to sort the apps on your Home screen (either alphabetically or by download date).

**Hide apps** Allows you to selectively hide apps from the Home screen.

**Loop Home screen** Enable to allow continuous Home screen scrolling (loop back to the first screen after the last screen).

**Home screen lock** Enable this option to prevent apps and widgets from being rearranged or removed.

TIPS

**Help** Displays information regarding the Home screen items and functions.

## Wallpaper & theme

Select a screen wallpaper, theme, and AOD for your device.

## Font

**Size** Allows you to set the size of the font used for the phone software.

**Bold text** Enable this option to bold the text on the screen.

**Type** Allows you to set the font used for the phone software.

## New Second Screen

Select how the status bar and app corners will look.

## Home touch buttons

Allows you to set the buttons displayed at the bottom of all screens, including color and placement.

## Always-on display

Enable this option to always display information, such as the date, time and notifications, even when the screen is turned off.

## App scaling

Adjust the screen size of downloaded apps.

### Display size

Allows you to set the size for the items and text viewed on screens without dynamic zoom capability.

### Screen resolution

Allows you to adjust the screen resolution level. All apps will close when you change the resolution.

### True view

Allows you to adjust the screen brightness and color depending on the light source.

### Screen color

Adjust the color, color temperature, or RGB values for the desired screen.

**NOTE** Tap ↺ to reset the settings.

### HDR video effect

Enable this option to set HDR effect while playing a video in full screen to make the color brighter and more vibrant.

### Comfort view

Enable this option to set a blue light filter to reduce eye strain. Once enabled, set the level to your preference.

### Brightness

Allows you to set the brightness for the screen or you can enable the automatic setting.

### Auto-rotate screen

Enable this option to allow the screen to rotate automatically based on its orientation.

### Screen timeout

Allows you to set the amount of time before the screen times out due to inactivity to conserve your power.

### Screen saver

Enable this option to display a screen saver when the device is connected to a holder or charger. Tap **Screen saver** to select a screen saver type to display.

### Mini view

Tap its switch to toggle it ON or OFF. Enabling this option will shrink the screen when you swipe left or right across ◁ **Back**, ◯ **Home**, and ▢ **Recent apps**. Shrinking the screen can make it easier to use the device with just one hand.

## Lock screen & security

SECURITY STATUS

**Google Play Protect**

Check the device periodically for potentially harmful apps.

**Find My Device**

Allows you to remotely track the device location. You can also save your data securely if you lose your device.

**Security update**

**Check for new system update** Allows you to check for any available updates for your phone.

**Show system update history** Allows you to view your system update history.

**Use Software Upgrade Assistant** Displays information regarding how to use system updates.

**SYSTEM UPDATE STATUS** Displays your last update information.

LOCK SCREEN

**Select screen lock** Allows you to set a screen lock to secure your phone from unintentional and/or unauthorized use.

**Customize Lock screen**

**Wallpaper** Allows you to set the background for your Lock screen.

**Clock** Allows you to set where to position the clock on the Lock screen.

**Shortcuts** Allows you to choose apps to run on your Lock screen. This setting appears only when a screen lock is set.

**Screen swipe effect** Allows you to set the screen transition effect to apply when the screen is unlocked.

**Weather animation** Enable this option to display weather animations for the current location on the Lock screen.

**Contact info for lost phone** Allows you to set text to be displayed on the Lock screen to identify the phone's owner.

Secure lock settings

**Lock timer** Allows you to set the amount of time before the screen automatically locks after the backlight turns off (time-out due to inactivity).

**Power key instantly locks** Enable this option to instantly lock the screen when the Power/Lock button is pressed. This setting overrides the Security Lock timer setting.

**Show lockdown** Enable this option to show power menu to turn off Lock screen notifications, Smart Lock and biometric locks.

**Smart Lock** Allows you to set trusted devices, places, voice, and/or on-body detection that will allow your phone to remain unlocked.

BIOMETRICS

**Fingerprints** Allows you to set up fingerprint impressions that will unlock your phone's screen, allow access to content, and/or allow you to pay using your device.

**NOTE** If your phone doesn't have a default payment app, go to Play Store and search for available payment apps.

**Face Unlock** Allows you to unlock the screen with your face.

**Hand ID** Allows you to unlock the screen with your hand ID.

PRIVACY

**Content lock** Allows you to set a lock type (PIN or pattern) for your QuickMemo+ and Gallery files.

### Location

Tap the switch at the top of its screen to toggle it On or Off. On enables sharing your location when you search for information and use location-based apps, such as Maps.

**Scanning** Allows you to enable Wi-Fi scanning and/or Bluetooth scanning even when those features are set to off.

**App-level permissions** Allows you to set permissions for each app.

RECENT LOCATION REQUEST

Displays all of the apps that have requested access to your location. Tap one to view details.

LOCATION SERVICES

**Google Emergency Location Service** Enable this option to allow you to using Google ELS when you contact an emergency number, if ELS is supported in your region.

**Google Location Accuracy** Enable this option to improve location accuracy.

**Google Location History** Allows you to enable or disable Location History. When enabled, Google periodically stores and uses your phone's most recent location data in connection with your Google Account.

From the Location History screen, tap ⋮ **Options** to view and/or manage your location data.

**Google Location Sharing** Allows you to share real-time locations (using Location History) with selected people and devices.

## ADVANCED

### Encryption & credentials

ENCRYPTION

**Encrypt SD card** Allows you to encrypt or decrypt an external microSD card data. Encrypted data is not accessible on other devices.

**Secure start-up** Enable this option to immediately lock the screen when you turn on the device to help keep it secure. Unlock the screen by entering the current unlock method, such as a Knock Code, Pattern,

Password, or PIN. Until the screen is unlocked, you cannot receive most phone calls, text messages, alarms, notifications, and more.

**NOTES**
- If the password is entered incorrectly more than a specific number of times, the device will automatically factory reset. Be sure to remember the password.
- If you forget your decryption password, you must factory reset the device to use it again. Resetting will delete all of the user data saved before the reset.

CREDENTIAL STORAGE

**Credential protection** Displays the current storage type.

**Trusted credentials** Shows system root CA certificates and user added CA certificates.

**User credentials** Allows you to view and modify stored secure certificates.

**Install from storage** Allows you to install a secure certificate from storage.

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

**Set up SIM card lock** Lock or unlock the USIM card, or change the password (PIN).

**Make passwords visible** Enable this option to briefly show each character of the password as you type it so you can see what you've entered.

**Phone administrators** Allows you to view and selectively disable phone administrators.

**Trust agents** Allows you to view and selectively disable Trust agents.

**Screen pin** Allows you to selectively pin an app to your screen. Enable this option to be able to designate only a single app that can be used until you unpin it. This is helpful when allowing children to use your phone.

**Usage access** Allows you to enable or disable the apps that can view your phone's app usage.

# Extensions

## Smart cleaning

Displays the space in use and free space in your phone and allows you to selectively clean up your files.

## Floating Bar

You can access frequently used features, such as **Shortcuts, Screen capture, Music player,** and **Quick contacts** by tapping and swiping the floating bar on the screen. See *Floating Bar overview* for details.

## Gaming

You can configure settings for game tools, screen resolutions and battery saving feature.

**Game launcher** Allows you to use Game launcher. You can view the entire list of installed games, or set the device to mute or prevent any notifications while playing games.

**Game tools** Tap  **ON/OFF** to activate this feature. You can launch this feature by tapping the game tool icon at the bottom of the screen while playing games.

**Game graphics** Adjust the game resolutions.

**NOTE** When you change the resolutions on some games, the screen display feature may not work properly.

**Break time** Allows you to set the screen brightness and performance to apply when you leave the device idle for longer than 5 minutes.

## Dual App

You can use some apps with two accounts.

1. On the settings screen, tap **Extensions** > **Dual App**.
2. After reading the disclaimer, tap **CONFIRM**.
3. In the list of available apps, tap **Install** to install a copy of a desired app and follow the on-screen instructions.

## Shortcuts

You can customize the shortcut keys settings.

**View notification panel:** Swipe your finger up or down on the fingerprint sensor to open or close the notification panel.

**Open Camera**: Press the Power key twice to open Camera.

**Open Capture+**: Press the Volume Up key twice to open **Capture+** when the screen is locked or off.

**Open Camera**: Press the Volume Down key twice to open **Camera** when the screen is locked or off.

**Open Google Assistant**: Tap the Assistant key to launch Google Assistant at any time. Press and hold to quickly talk to your Assistant. Press twice to open Google Lens.

**Talk to Google Assistant**: Press and hold the Google Assistant key to quickly talk to your Assistant.

**Show visual snapshot**: Press the Google Assistant key twice to see a snapshot of your day in the Google Assistant app.

## Pen

You can configure options for when the stylus pen is removed from its slot.

See *Using the Stylus Pen* for details.

1. On the settings screen, tap **Extensions** > **Pen**.
2. Customize the following settings:
   - **Open when pen is removed**: Select which feature will automatically start when the pen is removed from the device. Choose from **None**, **Pen Pop**, and **Pop Memo**.
   - **Pen Pop shortcut**: Select which apps (up to five) to display as a shortcut when the pen is removed from the device.
   - **Screen-off memo**: Enable this option to allow you to create notes when you remove the pen with the screen turned off.
   - **Memo preview**: Enable this option to preview memos.

- **Drawing sound**: Apply sound effects in drawing mode.
- **Draw with pen only**: Drawing with the pen will only be recognized in QuickMemo+, Capture+, My emoji and Pop memo. Use fingers to move or zoom the screen.
- **Pen detection**: Enable this option to be notified by sound and/ or vibration when the pen is removed or inserted.
- **Pen keeper**: Enable this option to be reminded to replace the pen. You'll receive an audio and/or visual notification when the device is moved with the screen off and the pen removed.

### AIR Motion

Enable this option to recognize the location and shape of your hand to launch certain features or apps without touching the screen.

Show your hand to the front camera and then perform hand gestures to launch desired features or apps.

See *Air Motion overview* for details.

### KnockON

Enable this option to turn the screen on or off by tapping the screen twice.

### Increase touch sensitivity

You can set the touch screen more sensitive to your touch. It is recommended to turn this feature on when using a screen protector.

## Apps & notifications

Allows you to set notifications for individual apps including preventing them from displaying notifications, setting priority, hiding sensitive content, allowing peeking, and more.

# Battery

The current percentage of remaining battery power and the charging status (when charging) are displayed.

### Battery usage

Displays battery usage information including a graph and app usage details.

### Battery percentage on Status Bar

Enable this option to display the battery level as a percentage on the Status Bar next to the battery icon.

### Optimized charging

Adjust charging speed depending on your charging habits to prevent overheating and lengthen battery life.

### Adaptive battery

Allows you to save the battery by stopping apps running in the background.

### Background restrictions

Enable this option to restrict background apps to save the battery while using the device. Restricted apps for power saving may not work properly or may not send you notifications.

### Battery saver

Reduce battery consumption by cutting down some device settings, such as the display brightness, speed and vibration intensity. The status bar displays when power saving mode is on.

### Power saving exclusions

Select apps to use without any functional limitation while in power saving or battery optimization mode.

### APP USAGE

Displays battery usage information for each app.

## Storage

DEVICE

Displays the total amount of space used and the available space in your phone's memory in text and as a bar graph (unused space is gray). Tap **Internal storage** to see your apps and the amount of space they use.

EXTERNAL

**SD card** Displays the amount of space used and the total available space in your memory card. Tap **SD card** to view the data stored on it.

⏏ Allows you to eject (unmount) your microSD card.

To format the memory card, tap **SD card** > ⋮ **Options** > **Storage settings** > **Format**.

## Accounts

**Auto-sync accounts** Enable this option to automatically sync all accounts you've added on your phone.

ACCOUNTS

Displays all of your added accounts. Tap one to view and/or manage (e.g., change details, access, sync settings, etc.) it.

**Add account** Allows you to add accounts to your phone.

# Accessibility

CATEGORIES

**Vision** Sets options for people with impaired sight.

**TalkBack** Enable this option to hear verbal feedback when you tap the screen. To select an item, tap it, then double-tap it. To scroll, use three fingers to swipe across the screen. Tap **TalkBack** to access and adjust the TalkBack settings.

**Message/call voice notifications** Enable this option to set your phone to automatically read your incoming calls and/or messages outloud. Tap **Message/call voice notifications** to modify your notification settings for **Calls, Messages, Read messages,** and **Message/call voice notifications language**.

**Font** Allows you to set the size and the type of the screen text.

**Display size** Allows you to set the size for displayed screen items (e.g., icons, text, etc.). Changing the size may affect the item's position on the screen.

**Touch zoom** Enable this option to allow you to triple-tap the screen to zoom in and out.

**Window zoom** Enable this option to activate a magnifying window. Use two fingers to drag it to other positions on the screen. When activated, you can zoom in or out within the window and set the window's color inversion. Tap **Window zoom** to view information and adjust its settings.

**Large mouse pointer** Enable this option to increase the size of the mouse pointer.

**High contrast screen** Enable this option to change the background color to black for a high contrast screen.

**Screen color inversion** Enable this option to invert the screen colors for higher contrast.

**Screen color adjustment** Enable this option to allow you to adjust the screen's hue and contrast. Tap **Screen color adjustment** to adjust it.

**Grayscale** Enable this option to switch the screen to grayscale mode.

**End call with the Power key** Enable this option to use the Power/Lock button to end a call.

**Hearing** Sets options for people with impaired hearing.

**Captions** Enable this option to allow your phone to display caption text. Tap **Captions** to access and adjust its settings.

**Flash alerts** Enable this option to enable the camera's flash to blink to notify you of incoming calls, messages, and alarms.

**Real Time Text (RTT) keyboard** Enable this option to show RTT keyboard during calls.

**TTY mode** A TTY (teletypewriter, also known as a TDD or Text Telephone) is a telecommunications device that allows people who are deaf, hard of hearing, or who have speech or language impairments, to communicate by telephone.

**Mute all sounds** Enable this option to silence all phone sounds and lower the volume from the earpiece.

**Audio channel** Allows you to set the audio type.

**Sound balance** Move the slider on the bar to set the sound balance between the left and right channel.

**Dexterity and interaction** Sets options for people with impaired motor skills.

DEXTERITY

**Touch assistant** Turn on the touch board to make buttons and gestures easier to use.

**Touch input** Set the desired delay time for touching and holding, or adjust the touch input to ignore repeated taps.

**Touch and hold delay** Allows you to set how long you need to touch an item before the device reacts.

**Ignore repeated taps** Allows you to set how the device interprets your tap action.

**Physical keyboard** Allows you to customize specified key settings.

**Key repeat** Enable this option to set how the device reacts when a key is held. Tap **Key repeat** to set the delay before the key entry will be repeated and the key repeat interval.

**Sticky keys** Enable this option to allow you to press modifier keys without having to press and hold.

**Sticky keys shortcut** Enable this option to enable the Shift button as a shortcut to Sticky keys.

**Slow keys** Enable this option to set a delay time before input is displayed.

**Auto mouse click** Enable this option to automatically activate the cursor where the pointer stops. Tap **Auto mouse click** to set its delay time.

**Touch and hold for calls** Enable this option to allow you to touch and hold the Answer or Ignore icon on the Incoming call screen (instead of swiping).

**Screen timeout** Allows you to set the amount of time before the backlight turns off automatically.

INTERACTION

**Touch control areas** Enable this option to allow you to restrict access to a specified portion of the screen.

GENERAL

**Accessibility features shortcut** Enable this option to allow quick, easy access to selected features when you triple-tap ○ **Home**. Tap **Accessibility features shortcut** to select the desired features.

**Auto-rotate screen** Enable this option to automatically rotate the screen based on the phone's orientation.

SERVICES

**Select to Speak** Allows you to tap items to hear spoken feedback.

**Switch Access** Tap the switch at the top of its screen to toggle it ON or OFF. On allows you to use the switch for selected features. Tap **OK**, then tap **SETTINGS** to set it up.

**Security & Privacy** Tap the switch at the top of its screen to toggle it On or Off. On allows you to enable Security & privacy to observe the apps your device uses to protect against web threats.

**My Verizon Guided Navigation** When Assistive touch service is active, your device provides access to read the elements present on the screen. This is used by the My Verizon app to provide assistive tutorials to navigate.

## Google

Allows you to manage your Google apps and account settings.

## System

The System category allows you to view and manage various system settings.

### User guide

You can view the User guide on your device.

### Language & keyboard

**Language** Allows you to set a main language for your phone's operating software and also add other languages.

**Default** Displays the name of the current keyboard. Tap to change it.

**On-screen keyboard** Allows you to customize the LG keyboard settings or voice recognition feature by Google Voice.

**Physical keyboard** Allows you to set the physical keyboard, or check keyboard shortcut keys.

**Autofill service** Enable this option to enter your information saved in your account such as password, address, or credit card number with a single tap. You can also disable this option, use the Google Autocomplete feature, or add a new service account.

**Text-to-speech output** Allows you to set the preferred speech engine, speech rate, and pitch change. You can listen to an example and view the default language status.

**Pointer speed** Allows you to set the pointer speed on a slide bar.

**Reverse mouse buttons** Enable this option to reverse the mouse buttons to use the primary button on the right.

## Date & time

### BASIC

Enable the **Set automatically** option or tap **Set date** and/or **Set time** to use a date/time other than the one provided by the network. Tap **Select time zone** to use a time zone other than the one provided by the network.

### TIME FORMAT

**Use 24-hour format** Enable this option to display the time using the 24-hour format (e.g., 13:00 instead of 1:00 PM).

## Memory

You can view the average amount of memory usage over a certain period of time and the memory occupied by an app.

1. On the settings screen, tap **System** > **Memory**.
2. Tap ▼ to set a time slot to retrieve data.

## Backup

### LG MOBILE SWITCH & BACKUP

**LG Mobile Switch** Allows you to copy data from a previous device to a new device. You can transfer data using a USB cable, wireless network, and SD card.

**NOTES**
- Data in a Google account will not be backed up. When you synchronize your Google account, Google apps, Google contacts, Google calendar, Google memo app data and apps downloaded from Play Store are stored on the Drive app automatically.
- Fully charge the battery before transferring data to avoid unintentional powering off during the process.

**Backup & restore** Allows you to back up your data to internal storage or SD card. You can also restore your data from a previous backup.

**WARNING!** Resetting your device may delete backup files saved in storage. Make sure to copy and store the important backup files to your PC.

GOOGLE BACKUP

**Google backup** You can choose to back up to your Google Drive.

### Restart & reset

RESTART

**Auto-restart** Automatically restart to optimize the phone at a set time.

RESET

**Network settings reset** Reset Wi-Fi, Bluetooth and other network settings.

**Reset app preferences** Reset the settings for an app. The data saved in the app will not be deleted.

**Factory data reset** Reset all settings for the device and delete data.

**Reset settings** Reset system settings back to default.

### About phone

View information about your phone including **Phone name**, **Network**, **Status**, **Battery**, **Hardware info**, **Software info**, and **Legal info**.

### Regulatory & safety

You can view regulatory marks and related information on your device.

On the settings screen, tap **System** > **Regulatory & safety**.

## System updates

From time to time, updates may become available for your phone. You can download and apply updates through the Settings menu.

# Phone software update

## LG Mobile phone software update from the Internet

For more information about using this function, please visit http://www.lg.com/common/index.jsp, select your country and language.

This feature allows you to conveniently update the firmware on your phone to a newer version from the Internet without needing to visit a service centre. This feature will only be available if and when LG makes a newer firmware version available for your device.

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

**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.

## Anti-Theft Guide

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

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

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

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

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

## Open Source Software Notice Information

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

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

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

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

## Regulatory Information (FCC ID number, etc.)

For regulatory details, go to **Settings** > **System** > **Regulatory & safety**.

## Trademarks

- For DTS patents, see http://patents.dts.com. Manufactured under license from DTS Licensing Limited. DTS, the Symbol, & DTS and the Symbol together, DTS 2.0 Channel, DTS 2.0+Digital Out, DTS-HD, and DTS Virtual:X are registered trademarks or trademarks of DTS, Inc. in the United States and/or other countries. © DTS, Inc. All Rights Reserved.

- Google, Google Map, Gmail, YouTube, Google Duo, Google Play, Android, Chrome, Google Photos, Google Play Protect, Google Calendar, Google Docs, Google Drive, Google Sheets and other related marks and logos are trademarks of Google LLC.
- Bluetooth® is a registered trademark of Bluetooth SIG, Inc. worldwide.
- Wi-Fi® and the Wi-Fi logo are registered trademarks of the Wi-Fi Alliance.

## Laser Safety Statement

CDRH Compliance

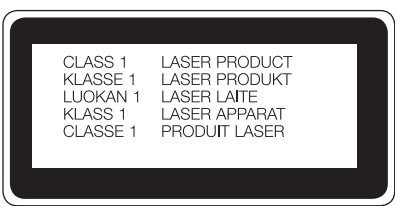
THIS PRODUCT COMPLIES WITH APPLICABLE REQUIREMENT OF THE DHHS PERFORMANCE STANDARD FOR LASER PRODUCT, 21 CFR SUBCHAPTER J.

Caution!

This product employs a laser system. To ensure proper use of this product, please read this owner's manual carefully and retain for future reference. Should the unit require maintenance, contact an authorized service center.

Use of controls, adjustments, or the performance of procedures other than those specified herein may result in hazardous radiation exposure.

To prevent direct exposure to laser beam, do not try to open the enclosure or make direct contact with the laser.




## More information

### Tempered glass parts

Tempered glass parts of this device are not permanent and they may wear out over time.

- If you drop your device on a hard surface or subject it to severe impact, the tempered glass may be damaged. If this happens, stop using your device immediately and contact an LG Customer Service Center.
- You can purchase protective cases to protect your device from damage. Note that these protective cases are not covered under the warranty service provided by LG Electronics and safety is not guaranteed.

## Guide to data movement

For the data that can be exchange between LG devices or between the LG device and a third party device, see the following table.

| Division | Item details | LG device → LG device | Third party Android device → LG device | iOS device → LG device |
|---|---|---|---|---|
| Personal data | Contacts, messages, dial logs, calendar, voice recordings | Supported | Supported | Supported |
| | Memos | Supported | Not Supported | Supported |
| | Alarms | Supported | Not Supported | Not Supported |
| Media data | Photos, videos, songs, documents | Supported | Supported | Supported |
| Screen settings | Home screen settings (folders and widgets) | Supported | Not Supported | Not Supported |
| | Lock screen settings (screenlock settings excluded) | Supported | Not Supported | Not Supported |
| Apps | Downloaded apps | Supported | Supported | - |
| | Personal data of the downloaded app | Supported | Not Supported | |
| Others | Public certificate | Supported | Supported | Not Supported |
| | Settings (Wi-Fi, Bluetooth, Calls, sound & notification, accessibility, battery) | Supported | Not Supported | Not Supported |

**NOTE** Some data may not be transmitted depending on the software version, app version, operating system, manufacturer or service provider's policy.

# Safety Information

## Important Information

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

## HAC Statement

This device has been tested and rated for use with hearing aids for some of the wireless technologies that it uses. However, there may be some newer wireless technologies used in this device that have not been tested yet for use with hearing aids. It is important to try the different features of this device thoroughly and in different locations, using your hearing aid or cochlear implant, to determine if you hear any interfering noise. Consult your service provider or the manufacturer of this device for information on hearing aid compatibility. If you have questions about return or exchange policies, consult your service provider or device retailer.

This mobile phone has a Hearing Aid Mode that, when activated, may reduce interference with some hearing aid models.

## FCC RF Exposure Information

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

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 device complies with the FCC guidelines and these international standards.

### Body-worn Operation

This device was tested for typical use with the back of the device kept 0.39 inches (1.0 cm) from the body. To comply with FCC RF exposure requirements, a minimum separation distance of 0.39 inches (1.0 cm) must be maintained between the user's body and the back of the device. Any belt-clips, holsters, and similar accessories containing metallic components may not be used. Avoid the use of accessories that cannot maintain 0.39 inches (1.0 cm) distance between the user's body and the back of the device and have not been tested for compliance with FCC RF exposure limits.

## Consumer Information about Radio Frequency Emissions

**Your wireless device, 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 devices.**

### Are wireless devices safe?

Scientific research on the subject of wireless devices 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 devices. 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 device usage can lead to cancer or a variety of other problems, including headaches, dizziness or memory loss." This publication is available at http://www.fcc.gov/cgb/cellular.html or through the FCC at (888) 225-5322 or (888) CALL-FCC.

### What does "SAR" mean?

In 1996, the FCC, working with the FDA, the U.S. Environmental Protection Agency, and other agencies, established RF exposure safety guidelines for wireless devices in the United States. Before a wireless device 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 device transmitting at its highest power level in all tested frequency bands. Since 1996, the FCC has required that the SAR of handheld wireless devices 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 device 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 device to the body while in use, and the use of hands-free devices.

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

### 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 devices for

convenience and comfort. These systems reduce the absorption of RF energy in the head because the device, which is the source of the RF emissions, will not be placed against the head. On the other hand, if the device 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 devices 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 device while in a car, you can use a device with an antenna on the outside of the vehicle. You should also read and follow your wireless device manufacturer's instructions for the safe operation of your device.

### Do wireless devices 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 devices 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 ORQ, United Kingdom. Copies of the UK's annual reports on mobile phones and RF are available online at http://www.hpa.org.uk/radiation/ (search "mobile"). Parents who wish to reduce their children's RF exposure may choose to restrict their children's wireless device 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

http://www.fda.gov

U.S. Federal Communications Commission

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

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

http://www.rsc.ca/index.php?page=Expert_Panels_RF&Lang_id=120

World Health Organization

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

International Commission on Non-Ionizing Radiation Protection

https://www.icnirp.org

American National Standards Institute

http://www.ansi.org

National Council on Radiation Protection and Measurements

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/

(websites current as of November 2018)

## Consumer Information on SAR

(Specific Absorption Rate)

This model device meets the government's requirements for exposure to radio waves. Your wireless device is a radio transmitter and receiver. It is designed and manufactured not to exceed the emission limits for exposure to Radio Frequency (RF) energy set by the Federal Communications Commission of the U.S. Government. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for

the general population. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health.

The exposure standard for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6 W/kg. Tests for SAR are conducted using standard operating positions specified by the FCC with the device transmitting at its highest certified power level in all tested frequency bands. Although SAR is determined at the highest certified power level, the actual SAR level of the device while operating can be well below the maximum value. Because the device is designed to operate at multiple power levels to use only the power required to reach the network, in general, the closer you are to a wireless base station antenna, the lower the power output. Before a device model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government-adopted requirement for safe exposure. The tests are performed in positions and locations (e.g., at the ear and worn on the body) as required by the FCC for each model.

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

The FCC has granted an Equipment Authorization for this model device with all reported SAR levels evaluated as in compliance with the FCC RF emission guidelines. SAR information on this model device is on file with the FCC and can be found under the Display Grant section of http://www.fcc.gov/oet/fccid after searching on FCC ID ZNFQ720VS.

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

Additional information on Specific Absorption Rates (SAR) can be found on the Cellular Telecommunications Industry Association (CTIA) website at http://www.ctia.org/.

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

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

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

While some wireless devices 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 devices also vary in the amount of interference they generate.

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

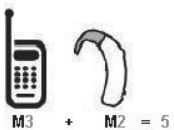
The ratings are not guaranteed. Results will vary depending on the user's hearing device and hearing loss. If your hearing device happens to be vulnerable to interference, you may not be able to use a rated device successfully. Trying out the device with your hearing device is the best way to evaluate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

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

T-Ratings: Devices rated T3 or T4 meet FCC requirements and are likely to generate less interference to hearing devices than devices 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 device 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 device 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 device. "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 device is maintained, secondary transmitters such as Bluetooth® and WLAN components must be disabled during a call.

For information about hearing aids and digital wireless devices:

Wireless Devices and Hearing Aid Accessibility

http://www.accesswireless.org/

Gallaudet University, RERC

http://tap.gallaudet.edu/Voice/

FCC Hearing Aid Compatibility and Volume Control

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

The Hearing Aid Compatibility FCC Order

http://hraunfoss.fcc.gov/edocs_public/attachmatch/FCC-03-168A1.pdf

Hearing Loss Association of America [HLAA]

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

## Caution! Avoid Potential Hearing Loss

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

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

- Set the volume in a quiet environment and select the lowest volume at which you can hear adequately.

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

## TIA Safety Information

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

### Exposure to Radio Frequency Signal

Your wireless handheld portable device 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 devices. 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).

### 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 device.

### Pacemakers

The Health Industry Manufacturers Association recommends that a minimum separation of six (6) inches be maintained between a handheld wireless device 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 device more than six (6) inches from their pacemaker when the device is turned ON;
- Should not carry the device in a breast pocket;
- Should use the ear opposite the pacemaker to minimize the potential for interference;
- Should turn the device OFF immediately if there is any reason to suspect that interference is taking place.

### Hearing Aids

Some digital wireless devices 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 device 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 device OFF in any facility where posted notices so require.

### Aircraft

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

### Blasting Areas

To avoid interfering with blasting operations, turn your device 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 device OFF when in any area with a potentially explosive atmosphere and obey all signs and instructions. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death. Areas with a potentially explosive atmosphere are often, but not always marked clearly. Potential areas may include: fueling areas (such as gasoline stations); below deck on boats; fuel or chemical transfer or storage facilities;

vehicles using liquefied petroleum gas (such as propane or butane); areas where the air contains chemicals or particles (such as grain, dust, or metal powders); and any other area where you would normally be advised to turn off your vehicle engine.

### For Vehicles Equipped with an Air Bag

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

## Part 15.19 Statement

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

(1) This device may not cause harmful interference, and

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

## Part 15.21 Statement

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

## Part 15.105 Statement

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

equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

## Safety Information

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

### ⚠Caution

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

- Do not disassemble, open, crush, bend or deform, puncture or shred the device.
- Do not modify or re-manufacture the device. Do not insert foreign objects into the device or battery, or expose to fire, explosion or other hazard.
- Only use the device with an LG charging system that has been qualified with the device, per CTIA Certification Requirements for Battery System Compliance to IEEE1725. Use of an unqualified charger may present a risk of fire, explosion, leakage, or other hazard.
- Avoid dropping the device. If the device is dropped, especially on a hard surface, and you suspect damage, take it to a service center for inspection.
- The entire device should be recycled in compliance with Lithium-Ion battery recycling standards because of the internal battery. To dispose of properly, call (800) 822-8837 or visit www.call2recycle.org.
- Always unplug the charger from the wall socket after the device is fully charged to save unnecessary power consumption.

- A mobile device requires proper air circulation in order to dissipate heat. Direct skin contact and inadequate circulation of air flow to the device may cause the device to overheat. The device must be at least 1.0 cm from between the user's body.
- Prevent dust of any other foreign substances from getting into the Charger/USB cable port. It may cause heat or fire.

### Charger and Adapter Safety

- The charger and adapter are intended for indoor use only.
- Insert the battery charger vertically into the wall power socket.
- Only use the LG-approved battery charger. Otherwise, you may cause serious damage to your device.
- Use the correct adapter for your device when using the battery charger abroad.
- A charging adapter that supports fast charging is included with the product.
- Do not use third party chargers with your device as they may not support fast charging and may cause damage to your device.

### Battery Information and Care

- Always unplug the charger from the wall socket after the device is fully charged to save unnecessary power consumption of the charger.
- Please read the manual of the specified charger for information about its 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 device, 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 device in a pocket or bag without covering the receptacle of the device

(power plug pin), metallic articles (such as a coin, paperclip or pen) may short-circuit the device. Always cover the receptacle when not in use.

- Recharge the device after long periods of non-use to maximize battery life. Battery life will vary due to usage pattern and environmental conditions.
- Improper handling of the charging port, as well as the use of an incompatible charger, may cause damage or defect to your device.
- The charging temperature range is between 0 °C/32 °F and 35 °C/95 °F. Do not charge the battery out of the recommended temperature range. Charging out of the recommended range might cause heat to be generated or serious damage to the battery. It might also cause the deterioration of the battery's characteristics and cycle life.
- Do not use or leave the device in direct sunlight or in a car heated by sunshine. The device may generate excessive heat, smoke, or flame. It also might cause deterioration of device's characteristics or cycle life.
- If the skin or clothes is smeared with liquid from the battery, wash with fresh water. It may cause skin inflammation.
- Please take your device to an authorized service center immediately if this occurs.
- Do not handle the device with wet hands while it is being charged. It may cause an electric shock or seriously damage your device.
- Do not charge while the device or charging cable is wet or contains moisture. This can cause fire, electric shock, injury or damage to the device.
- Do not place or answer calls while charging the device as it may short-circuit the device and/or cause electric shock or fire.
- Talking on your device for a long period of time may reduce call quality due to heat generated during use.

### WARNING! Notice for Battery Replacement

- Do not remove the back cover.
- Your device has an internal battery. For your safety, do not remove the battery incorporated in the product. If you need to replace the battery, take it to the nearest authorized LG Electronics service point or dealer for assistance.
- The Li-Ion Battery is a hazardous component which can cause injury.
- Battery replacement by non-qualified professional can cause damage to your device.

### Explosion, Shock, and Fire Hazards

- Do not put your device in a place subject to excessive dust and keep the minimum required distance between the power cord and heat sources.
- Unplug the power cord prior to cleaning your device, 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 device in a pocket or bag without covering the receptacle of the device (power plug pin), metallic articles (such as a coin, paperclip or pen) may short-circuit the device and may cause an explosion. Always cover the receptacle when not in use.
- Do not charge while the device or charging cable is wet or contains moisture. This can cause fire, electric shock, injury or damage to the device.

### General Notice

- Do not place items containing magnetic components, such as a credit card, phone card, bank book, or subway ticket, near your device. The magnetism of the device may damage the data stored in the magnetic strip.
- Talking on your device for a long period of time may reduce call quality due to heat generated during use.

- When the device is not used for a long period time, store it in a safe place with the power cord unplugged.
- Using the device in proximity to receiving equipment (i.e., TV or radio) may cause interference to the device.
- Conform device use to IP68 capabilities. Do not immerse in water deeper than approximately 1.5 meters. Do not immerse your product in water for longer than 30 minutes, or liquids other than water. Immediately, take it to an LG Authorized Service Center.
- Do not paint your device.
- The data saved in your device might be deleted due to careless use, repair of the device, 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 device in public places, set the ringtone to vibration so you don't disturb others.
- Do not turn your device on or off when putting it to your ear.
- Use accessories, such as earphones and headsets, with caution. Ensure that cables are tucked away safely.
- A mobile device requires proper air circulation in order to dissipate heat. Direct skin contact and inadequate circulation of air flow to the device may cause the device to overheat. The device must be at least 1.0 cm from between the user's body.
- Prevent dust of any other foreign substances from getting into the Charger/USB cable port. It may cause heat or fire.

## 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 devices pose a health hazard?**

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

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

Under the law, the FDA does not review the safety of radiation-emitting consumer products such as wireless devices before they can be sold, as it does with new drugs or medical devices. However, the agency has authority to take action if wireless devices 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 devices to notify users of the health hazard and to repair, replace, or recall the devices so that the hazard no longer exists. Although the existing scientific data do not justify FDA regulatory actions, the FDA has urged the wireless device 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 devices;
- Design wireless devices 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 devices with the best possible information on possible effects of wireless device 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 devices with the Federal Communications Commission (FCC). All devices 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 devices.

The FCC also regulates the base stations that the wireless device networks rely upon. While these base stations operate at higher power than do the wireless devices themselves, the RF exposures that people get from these base stations are typically thousands of times lower than those they can get from wireless devices. Base stations are thus not the subject of the safety questions discussed in this document.

### 3. What kinds of devices are the subject of this update?

The term "wireless device" refers here to handheld wireless devices with built-in antennas, often called "cell," "mobile," or "PCS" devices. These types of wireless devices can expose the user to measurable Radio Frequency (RF) energy because of the short distance between the device 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 device is located at greater distances from the user, the exposure to RF is drastically lower because a person's RF exposure decreases rapidly with increasing distance from the source. The so-called "cordless devices," 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 devices 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 devices, 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 devices 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 device RF exposures. However, none of the studies can answer questions about long-term exposures, since the average period of device use in these studies was around three years.

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

A combination of laboratory studies and epidemiological studies of people actually using wireless devices 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 devices. Many factors affect this measurement, such as the angle at which the device is held, or which model of device is used.

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

All devices 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 devices 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 device and is set well below levels known to have effects. Manufacturers of wireless devices must report the RF exposure level for each model of device to the FCC. The FCC website (http://www.fcc.gov/oet/rfsafety) gives directions for locating the FCC identification number on your device so you can find your device's RF exposure level in the online listing.

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

The Institute of Electrical and Electronic Engineers (IEEE) is developing a technical standard for measuring the Radio Frequency (RF) energy exposure from wireless devices 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 device 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 device. 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 device complies with safety guidelines.

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

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 device will reduce RF exposure. If you must conduct extended conversations by wireless device 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 device away from your body or use a wireless device connected to a remote antenna. Again, the scientific data does not demonstrate that wireless devices 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 device use.

10. What about children using wireless devices?

The scientific evidence does not show a danger to users of wireless devices, 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 devices. Reducing the time of wireless device 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 devices 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 device causes brain tumors or other ill effects. Their recommendation to limit wireless

device use by children was strictly precautionary; it was not based on scientific evidence that any health hazard exists.

**11. What about wireless device interference with medical equipment?**

Radio Frequency (RF) energy from wireless devices 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 device EMI.

The FDA has tested hearing aids for interference from handheld wireless devices 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 devices so that no interference occurs when a person uses a "compatible" device 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 devices for possible interactions with other medical devices. Should harmful interference be found to occur, the FDA will conduct testing to assess the interference and work to resolve the problem.

**12. Where can I find additional information?**

For additional information, please refer to the following resources:

FDA web page on wireless devices

http://www.fda.gov/Radiation-EmittingProducts/RadiationEmittingProductsandProcedures/HomeBusinessandEntertainment/CellPhones/default.htm

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

International Commission on Non-Ionizing Radiation Protection

https://www.icnirp.org

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 devices in the areas where you drive and always obey them. Also, if using your device while driving, please observe the following:

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

## 10 Driver Safety Tips

Your wireless device gives you the powerful ability to communicate by voice almost anywhere, anytime. An important responsibility accompanies the benefits of wireless devices, one that every user must uphold.

When operating a car, driving is your first responsibility. When using your wireless device behind the wheel of a car, practice good common sense and remember the following tips:

1. Get to know your wireless device and its features, such as speed dial and redial. Carefully read your instruction manual and learn to take advantage of valuable features most devices offer, including automatic redial and memory. Also, work to memorize the device keypad so you can use the speed dial function without taking your attention off the road.
2. When available, use a hands-free device. A number of hands-free wireless device accessories are readily available today. Whether you

choose an installed mounted device for your wireless device or a speaker phone accessory, take advantage of these devices if available to you.

3. Make sure you place your wireless device within easy reach and where you can reach it without removing your eyes from the road. If you get an incoming call at an inconvenient time, if possible, let your voicemail answer it for you.
4. Suspend conversations during hazardous driving conditions or situations. Let the person you are speaking with know you are driving; if necessary, suspend the call in heavy traffic or hazardous weather conditions. Rain, sleet, snow, and ice can be hazardous, but so is heavy traffic. As a driver, your first responsibility is to pay attention to the road.
5. Don't take notes or look up phone numbers while driving. If you are reading an address book or business card, or writing a "to-do" list while driving a car, you are not watching where you are going. It is common sense. Do not get caught in a dangerous situation because you are reading or writing and not paying attention to the road or nearby vehicles.
6. Dial sensibly and assess the traffic; if possible, place calls when you are not moving or before pulling into traffic. Try to plan your calls before you begin your trip or attempt to coincide your calls with times you may be stopped at a stop sign, red light, or otherwise stationary. But if you need to dial while driving, follow this simple tip -- dial only a few numbers, check the road and your mirrors, then continue.
7. Do not engage in stressful or emotional conversations that may be distracting. Stressful or emotional conversations and driving do not mix; they are distracting and even dangerous when you are behind the wheel of a car. Make people you are talking with aware you are driving and if necessary, suspend conversations which have the potential to divert your attention from the road.
8. Use your wireless device to call for help. Your wireless device is one of the greatest tools you can own to protect yourself and your family in dangerous situations -- with your device at your side, help is only three numbers away. Dial 911 or another local emergency number in the case of fire, traffic accident, road hazard, or medical emergency. Remember, it's a free call on your wireless device!

9. Use your wireless device to help others in emergencies. Your wireless device provides you a perfect opportunity to be a "Good Samaritan" in your community. If you see an auto accident, crime in progress or other serious emergency where lives are in danger, call 911 or another local emergency number, as you would want others to do for you.
10. Call roadside assistance or a special wireless non-emergency assistance number when necessary. Certain situations you encounter while driving may require attention, but are not urgent enough to merit a call for emergency services. But you can still use your wireless device to lend a hand. If you see a broken-down vehicle posing no serious hazard, a broken traffic signal, a minor traffic accident where no one appears injured or a vehicle you know to be stolen, call roadside assistance or other special non-emergency wireless number.

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

## Limited Warranty – USA

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

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

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

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

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

IMPAIRMENT OF OTHER GOODS, COST OF REMOVAL AND REINSTALLATION OF THE PRODUCT, LOSS OF USE, OR ANY OTHER DAMAGES WHETHER BASED IN CONTRACT, TORT, OR OTHERWISE.

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

## HOW SERVICE IS HANDLED:

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

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

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

## THIS LIMITED WARRANTY DOES NOT COVER:

(1) Damage or defects of the Product resulting from use of the Product in other than its normal and customary manner.

(2) Damage or defects of the Product resulting from abnormal use, abnormal conditions, improper storage, exposure to moisture or dampness beyond IP68 tested use, unauthorized modifications/connection/repair, misuse, neglect, abuse, accident, alteration, improper installation, or other acts which are not the fault of LG, including damage or defects of the Product caused by shipping, blown fuses, spills of food or liquid.

(3) Damage or defects of the Product caused by transportation and/or handling, including scratches, dents, chips, and/or other damage to the finish of your Product including the external housing and cosmetic parts,

unless such damage results from defects in materials or workmanship and is reported within one (1) week of delivery (Call: 1-800-793-8896).

(4) Damage or defects to antennas unless caused directly by defects in material or workmanship.

(5) Damage or defects of the Product resulting from operating the Product contrary to the instructions outlined in the Product owner's manual.

(6) That LG Customer Service was not notified by you of the alleged defect or malfunction of the Product during the applicable limited warranty period.

(7) Products with original serial numbers that have been removed, altered, or cannot be readily determined.

(8) Damage or defects of the Product or missing items to any Product sold "As Is", "With all Faults" or similar disclaimer.

(9) Damage or defect of the Product caused by the use of accessories, parts, consumable cleaning products, or service not provided or approved by LG.

(10) All plastic surfaces and all other externally exposed parts that are scratched or damaged.

(11) Products operated outside published maximum ratings.

(12) Replacement of any consumable parts (such as fuses).

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

## TO OBTAIN WARRANTY SERVICE AND ADDITIONAL INFORMATION:

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

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

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

## DO NOT RETURN YOUR PRODUCT TO THE ABOVE ADDRESS.

Please call or write for procedures for obtaining warranty service.

PROCEDURE FOR RESOLVING DISPUTES:

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

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

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

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

representative action. Instead of arbitration, either party may bring an individual action in small claims court, but that small claims court action may not be brought on a class or representative basis.

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

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

Fees/Costs. You do not need to pay any fee to begin an arbitration. Upon receipt of your written demand for arbitration, LG will promptly pay all arbitration filing fees to the AAA unless you seek more than $25,000 in damages, in which case the payment of these fees will be governed by the AAA Rules. Except as otherwise provided for herein, LG will pay all AAA filing, administration and arbitrator fees for any arbitration initiated in accordance with the AAA Rules and this arbitration provision. If you

prevail in the arbitration, LG will pay your attorneys' fees and expenses as long as they are reasonable, by considering factors including, but not limited to, the purchase amount and claim amount. Notwithstanding the foregoing, if applicable law allows for an award of reasonable attorneys' fees and expenses, an arbitrator can award them to the same extent that a court would. If the arbitrator finds either the substance of your claim or the relief sought in the demand is frivolous or brought for an improper purpose (as measured by the standards set forth in Federal Rule of Civil Procedure 11(b)), then the payment of all arbitration fees will be governed by the AAA Rules. In such a situation, you agree to reimburse LG for all monies previously disbursed by it that are otherwise your obligation to pay under the AAA Rules. Except as otherwise provided for, LG waives any rights it may have to seek attorneys' fees and expenses from you if LG prevails in the arbitration.

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

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

back of the product beneath the battery, if the battery is removable; or (iii) from the settings menu via the following path: Settings > System > About phone > Status).

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